



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

## **VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY**

**VIDYVARDHINIS CAMPUS K.T. MARG VASAI ROAD WEST  
401202  
[www.vcet.edu.in](http://www.vcet.edu.in)**

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

Vidyavardhini's College of Engineering and Technology (VCET), Vasai was established in the year 1994 by the Vidyavardhini Trust.

Vidyavardhini means a body committed to enhancement of Knowledge. With the motto "*Sa Vidya Ya Vimuktaye*" which means "knowledge is one that liberates". Vidyavardhini is dedicated to the noble cause of education in rural areas since 1970. The seed sown by the great visionary late Padmashri H. G. alias Bhausahab Vartak has now grown into a gigantic tree, benefiting thousands of lives through quality education in various streams like arts, commerce, science, technical education, management and finance. The Institute has proven to be a boon to the people residing in the tribal district of Palghar. The Governing Council comprises of eminent philanthropists, bussiness personnels, industrailists, social workers and freedom fighters with a intense yearning to serve the society.

The Institute is located on the sprawling green campus of Vidyavardhini, spread over an area of 12.27 acres. It is at a short walk from Vasai Road (West) Railway Station and accessible by road from Mumbai.

The Institute is a Self-Financed Institute approved by the AICTE and DTE, Government of Maharashtra. It is affiliated to the University of Mumbai for the four-year degree program leading to the degree of Bachelor of Engineering in six different streams viz. Mechanical, Electronics and Telecommunication, Instrumentation, Computers, Information Technology, and Civil Engineering each with an approved intake of 60 students. The Mechanical Engineering programme has an additional second shift (admitted direct second year) with an intake of 60 students. The Institute has now secured permanent affiliation for 4 of its programmes from the University of Mumbai.

National Board of Accreditation accredited four programmes of the Institute for a period of three years w.e.f. March 2012. The Institute has an excellent result and placement record. In the Academic year 2017-18, more than 240 placements offers with a maximum package offered being 10 lacs. In 2018-19, the day one placement record is 105 offer letters from Infosys. A significant number of students go for pursuing higher studies in India and abroad every year in various fields.

### Vision

***To be a premier Institute of technical education, always aiming and becoming a valuable resource for Industry and Society***

The Institute was established with aim to help the student in the nearby locality to acquire technical knowledge and skill. The management has always supported by providing all necessary facilities, infrastructure, and teaching staff as per the norms. The initial period was the learning period. The vision of the Institute was formulated in 2006 which was modified in 2007. It reads as

*We at Vidyavardhini's College of Engineering and Technology aim at becoming a premiere Institute for engineering of learning for engineering sciences that consistently turns out world class engineering professionals of tomorrow through an ambience of continuous enquiry, a quest for knowledge, constantly updated teaching-learning tools and methods and a "can do" attitude towards problem solving.*

The vision was revised in January 2015. The present vision stresses upon that all the stakeholders should identify the road map, strategic goals and corresponding action plan to fulfill the vision. The Institute aims to provide valuable resource in the form of skilled and competent engineers imbued with social commitment.

## **Mission**

The mission statement formulated in 2007 the year reads as:

*Our mission at Vidyavardhini's College of Engineering and Technology is to provide nurturing environment for pursuit of knowledge in the field of engineering sciences with state -of-the-art laboratories, diversified learning tools and infrastructure and instructions that goes over and beyond the narrow confines of university stipulated syllabi to turn out engineering graduates committed to excellence in their field with their feet firmly lodged on a solid foundation of humane values.*

The vision statement was expanded in the year to understand what is needed to become premier technical education institution and what will help in creating skilled and competent engineers.

The mission statements were derived from the scope of vision statement.

## **Current mission statements are as follows:**

### **We at VCET aim**

- *To provide technologically inspiring environment for learning*
- *To promote creativity, innovation and professional activities*
- *To inculcate ethical and moral values*
- *To cater person, professional and societal needs through quality education.*

The Vision and Mission statements of the Institute were formulated after several brain-storming session. Insights of all the stake holders were given due weightage in scripting the statements. The strategic goals and plan of the Institute are decoded from the mission statements.

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

### Institutional Strength

1. Sophisticated infrastructure and support facilities
2. State of art laboratories with modern equipment and software
3. Proximity to the Vasai - Virar -Palghar – Boisar -Bhiwandi Industrial belt
4. Highly qualified, experienced and dedicated faculty with a good retention ratio
5. Well qualified and skilled technical staff
6. Outstanding results and placement records
7. Supportive management keenly oriented towards serving the society
8. Excellent Library with a rich collection of reference/text books, magazines, encyclopedia, journals, periodicals and literature/ self-help books and newspapers
9. Stringent implementation of the government/ AICTE guidelines
10. Welfare of teaching and non-teaching faculty through various development schemes
11. Emphasis on capacity building of the students
12. Adequate numbers of extra and co-curricular activities
13. Inculcation of social responsibility and moral values in students by through extension activities
14. Counselling facility for addressing the emotional/stress issues of the students and staff.

### Institutional Weakness

1. Insufficient Industry Institute Interaction in terms of MoUs, industry sponsored projects
2. Less number of research/ consultancy/ research projects
3. Less placement in core companies
4. Lacking Post Graduate programme and Research Center
5. Less number of STTP/FDP programmes organized by the Institute
6. Fewer number of Entrepreneurship/ Incubation/innovation initiatives

### Institutional Opportunity

1. To enrich the infrastructure to increase the employability of the students through skill development initiatives.
2. To blend information and communication technology with the various academic and administrative process and emerge as a smart campus.
3. To initiate student/faculty exchange with reputed Indian/foreign universities
4. To boost student entrepreneurship to establish startups and incubation activities
5. To enhance the interaction with the alumni and avail their support for industry ties-up, placement, training etc.

### Institutional Challenge

1. To increase placement in core companies
2. To attract more number of meritorious students
3. To cater to the issues of students from diverse educational and social background

4. To enhance communication and soft skill of the students
5. To prevent the negative impact of social media on academic performance and personal lives of students.
6. To regularly update faculty on rapidly changing technologies know how

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

Vidyavardhini's College of Engineering and Technology is a self- financed Institute affiliated to the University of Mumbai and implements the curriculum prescribed by the University. Faculty members regularly participate in syllabus revision workshops, orientation programmes, curriculum implementation workshops etc.

Institute ensures effective curriculum delivery through a well-planned and documented process. The various planning activities include preparation of academic calendar, teaching load distribution, allocating subjects, preparation of time table etc. The activities related to academic delivery are lecture planning and laboratory preparation. The faculty members maintain a course booklet which includes weekly report of lectures, Course Outcomes, Course Outcome-Program Outcome mapping and other important teaching learning and evaluation aspects. The academic progress is monitored by Head of Departments. The effective curriculum delivery is ensured by classroom teaching with the use of modern teaching tools. The tutorials are conducted to strengthen the learning. The project activity is planned by deciding groups, assigning guides and deciding broad project area. The project activity progress is monitored through timely reviews. The project record is maintained in project handbook. The attendance monitoring is scrupulously done.

The academic flexibility is provided by giving liberty in choosing the electives. The Institute has introduced Bachelor degree programme in Civil Engineering to provide a career opportunity to aspiring student.

Qualitative delivery of curriculum is supported by infrastructure facilities and ensured using online feedback system. Course exit survey and quizzes are conducted to achieve and assess course objectives.

The Institute does curricular enrichment by integrating cross cutting issue relevant to environment professional ethics through courses such as Environmental Studies, Business Communication and Ethics.

The Institute has taken initiative to arrange certification courses like Java, OCJP, .NET and logic building which keeps the students motivated towards additional learning. The Institute has several professional bodies to strengthen the technical and social awareness. Institute organizes guest lectures, training programs, appoints adjunct faculty to bridge the gaps between industry and university curriculum.

### Teaching-learning and Evaluation

The admission process of the Institute is done through Centralized Admission Process prescribed by Director of Technical Education (DTE) , Government of Maharashtra. Institute follows admission rules, regulations and guidelines set up by Government of Maharashtra. The admitted students belong to different socio-economic, cultural background. The Institute recruit faculty as per AICTE norms. The Institute has high faculty retention ratio.

Institute has a student centric Teaching-Learning process which aims at excellence in academics and overall

development of the students. The faculty uses effective tools of teaching which includes Power Point Presentations, Video Lectures and Software Simulations for a detailed understanding of the subject matter. Laboratories are equipped with latest tools and technology so that students can exercise their knowledge and become capable to work on real life applications. Special challenges are posed to the fast learners while slow learners are supported by remedial lectures and teaching at slow pace. Faculty members are encouraged to use innovative teaching tools in curriculum delivery. A well-structured, robust and continuous evaluation system prevails in the Institute.

The Institute has a effective proctor system. The mentors take care of academic and personal counselling of students and guide them in all aspects. The Institute has proper mechanism for redressal of grievances with reference to evaluation at the Institute/University level as per the rules laid down by University.

Institute adheres to the Programme Outcomes as specified by National Board of Accreditation, India. Also, each department has articulated their Programme Educational Objectives and Programme Specific Outcomes that describe the qualities specific to the programme which needs to be inculcated in the students.

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

The Institute provides ecosystem to promote research and innovation. The Institute encourages faculty to pursue PhD and provides necessary support through well-defined policies. Nine faculty members have completed PhD from reputed Institutes such as IIT's and NIT's, and six are pursuing their PhD. These faculties mentor the students on innovative research or sponsored projects. The Institute has completed a collaborative research project with Institute of Plasma Research, Gandhinagar. The faculty members have successfully completed minor research projects of high social importance funded by the University of Mumbai.

Creativity and innovation have become essential aspects for professional engineer in order to add value to the organization in which they work and to have a secure career. With this awareness, the students are encouraged to participate in innovative project competition like AVSHKAR and HACKATHON. The Institute provides financial support to students working on Ethan Formula-1 car, solar car and several other product design/development activities. The Institute encourages students to undergo internship programmes and is currently exploring the concept of collaborative internship. The students explore the industry products and organize a "Product Show Case". Vidyavardhini's National level Project Showcase is also hosted every year. The Institute also promotes and supports students and faculties to participate in various technical and research activities, publish and present their work in reputed journals and conferences. The Institute has established Centre of Excellence in different disciplines. The Institute has also stated code of ethics to check the malpractice/plagiarism in students project. The Institute regularly conducts seminars on intellectual property rights (IPR). The Institute is keen towards the social issues and undergoes extension and outreach activities like blood donation camp, mega donation camp under the umbrella called UDDAN.

### **Infrastructure and Learning Resources**

The Institute strictly abides by the norms set by AICTE regarding land, building, space provisions etc. The requirements of instructional, administrative, amenities and circulation area fulfilled as per norms. The Institute building is fire complacent and equipped with several fire-fighting tools. The Institute has installed a 50KW roof top solar system. All classrooms are equipped with LCD projectors and internet connection to facilitate the teaching-learning process. The Institute has 3 seminar halls with ICT facility. One of the seminar hall is

equipped with digital podium with Lecture Capturing feature. The Institute accommodates Rajani Hall, a fully air-conditioned Auditorium of Vidyavardhini's Trust with seating capacity of 650. The cultural programs are hosted in an open-air theatre. Laboratories are equipped with modern equipment and are augmented as per the syllabus requirements. The Centre of excellence in different department provide hands on experience to students on industry specified equipment and enhance skill development. Adequate computing facilities are available in the Institute. Facilities like LAN, Wi-Fi and high-speed internet connectivity are also present. The facilities are being used by University of Mumbai, DTE, IIT and TCS for conducting on line examinations. The IT infrastructure is well maintained by technical staff.

The Institute provides the adequate infrastructure for sports activities. The Institute organize inert-collegiate sports events AVAHAN.

The central library has rich collection of books, reference books, e-books, journals, periodicals, magazines etc. The students have an easy access to e- journal and other digital resources in digital library. The Institute has one CYBEROAM 100 iNG DPU Firewall. Maintenance of academic & physical facilities is carried out persistently.

### **Student Support and Progression**

The Institute is located in the tribal district of Palghar. The student population include

- students from different socio-economic, cultural background
- students with different learning level
- diploma holders with less exposure to mathematics
- students from vernacular background

This diverse nature of student results in several challenges. The management of the Institute provides continual support to overcome these challenges. Some of the initiatives taken in this direction include:

- Appointment of Professional Counsellor
- 'Padmashri Bhausahab Vartak Vidyarthi Sahay Nidhi'
- Transparent admissions process
- Supportive Policy for Fee refund in case of cancellation of admission
- Financial support for professional activities

The Institute practices several development schemes for students. The Institute shall stress upon Career counselling, organizing a career conference and increasing interaction with engineering degree aspiring student in the near future.

The Institute is working on creating more awareness about GATE exam, imparting training to aspiring students and to improve the percentage of GATE qualified students.

The Institute has an Anti-Ragging and Internal Complaint Committee. However, no cases of ragging or sexual harassment are reported in the Institute.

The Institute encourages and provide necessary infrastructure support and finance to participate in various curricular and co-curricular activities. The Institute shall be hosting an Alumni Reunion in the Silver Jubilee

Year 2019.

The Training and Placement Cell of Institute in collaboration with placement training agency- Campus Credential conduct sessions on aptitude building, life skills, personality development, writing assignments and making presentations. It also organizes interactive sessions with students to create an awareness of various opportunities after graduation. The Institute is planning for

- a more vigorous employability assessment,
- need based training programmes,
- more internships and sponsored projects.

The Entrepreneurship Development Cell of Institute plays vital role in conducting expert lectures by founders and managers of businesses and start-ups to foster entrepreneurial spirit among students of the Institute. The Women Development Cell of Institute promotes the special interest of the women faculty, staff and students.

The Institute has well established proctor-student mechanism which update the parents about their wards progress and issues.

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

The credentials earned by the Institute are attributed to

- commitment of the management
- clarity in vision and mission
- transparency in governance and
- effective leadership though implementation of polices and strategic plan

The Institute has earned a trustworthiness of the students, parents and other stakeholders over the years which is reflected through

- high retention ratio of staff
- admission status
- number of placements and
- alumni feedback.

The Management, teaching and non-teaching faculty of the Institute are committed towards transforming a professional course entry oriented Grade XII student or a degree aspirant diploma holder to an engineering professional.

Effective planning, decision making, and execution of various activities and programs are smoothly implemented through the decentralization management. There is a well-defined strategic plan that provides a sense of direction and outlines measurable goals. The Institute incorporates key organizational structure. E-governance system is well implemented in various areas like administration, finance and accounts, student's admission & support and examination. Meetings of various bodies/cells/committees are conducted consistently to ensure effective functioning of the organization.



The various development policies are in place and are implemented. The accountability is ensured through implementation of code of conduct.

During the last five years, faculty members and staff have attended various orientation programmes, refresher courses, short term courses and faculty development programmes. The performance appraisal system in the Institute helps to evaluate effectiveness the teaching and non-teaching staff. The internal and external financial audit of the institution is conducted on regular basis. Finance manual is in place and is followed.

Internal Quality Assurance Cell is established by the Institute to ensure consistent improvement of quality and achieving academic excellence. Internal Quality Assurance Cell has initiated various quality reforms to improve teaching-learning processes by adopting Information Communication and Technology. This has enabled to achieve academic and administrative excellence with high standards.

The Institute is proud about its alumni, the success in university exam, students and staff who have brought laurels to the institution.

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

Institute Distinctiveness is concerned with the values that the Institute hold, the culture in which Institute dwells, and the things that Institute offers and best practices that it values.

The central idea of the vision and mission statement of the Institute is the commitment for transforming XII pass student and diploma holder into a professional engineer.

Mental health is of prime importance in today's competitive world, the Institute has appointed a counsellor to address psychological/stress issues of students and staff. Institution shows gender sensitivity in providing facilities such as Counselling and Common Room. Safety and security are of prime importance for students and all the people working in the Institute. Security guards are appointed, and CCTV cameras have been installed all over the campus premises. The Institute also has well-furnished Common Rooms for both boys and girls. The Institute strongly promotes the principles of 3'R' i.e. Reduce, Reuse and Recycle and takes all possible initiative to inculcate the same among students and staff to minimize waste generation. The Institute aims to use natural resources such as solar energy and rainwater. The Institute has taken initiative to spread the awareness of 'Green Living' in the campus. It supports the cleanliness campaign of the Government and organizes "Swachh Bharat Abhiyaan" on October 2, every year. Several activities are conducted for promotion of universal values like truth, righteous conduct, national and human values. The Institute also enthusiastically celebrates national festivals and observes birth/death anniversaries of great Indian leaders. Lift, Ramp / Rails, washroom and helpline are available for divyangjan students.

Social Upliftment through Community Services and Vidyavardhini's National Project Showcase (VNPS) are two unique best practices which this Institute follows. Through the first best practice, the committee helps needy and poor people of the society through different social programs. VNPS is a project presentation where students from various technical Institutes participate to display their projects.

In pursuit of the Institute's vision and mission, a distinctive event called as 'Product showcase' is conducted. It gives an exposure to students about professional activities and sharpens their technical knowledge.

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## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY
Address	Vidyvardhinis Campus K.T. Marg Vasai Road West
City	Vasai Virar Municipal Corporation
State	Maharashtra
Pin	401202
Website	<a href="http://www.vcet.edu.in">www.vcet.edu.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Professor	Vikas N. Gupta	0250-2338234	9892251610	0250-2338234113	vikas.gupta@vcet.edu.in
Principal	Harish V. Vankudre	0250-2350988	8788661691	0250-2339486	vcet_inbox@vcet.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Evening

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	10-06-1994

**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Maharashtra	University of Mumbai	<a href="#">View Document</a>

**Details of UGC recognition**

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

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	<a href="#">View Document</a>	04-04-2018	12	Yearly Affiliation by AICTE

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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**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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Vidyvardhinis Campus K.T. Marg Vasai Road West	Urban	5	14193

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Mechanical Engineering	48	HSC	English	60	59
UG	BE,Electronics And Telecommunication Engineering	48	HSC	English	60	58
UG	BE,Instrumentation Engineering	48	HSC	English	60	49
UG	BE,Computer Engineering	48	HSc	English	60	57
UG	BE,Information Technology	48	HSC	English	60	60
UG	BE,Civil Engineering	48	HSC	English	60	60
UG	BE,Mechanical Engineering Second Shift Second Year Direct	36	Diploma	English	60	60

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

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	7				12				58			
Recruited	2	0	0	2	0	1	0	1	23	31	0	54
Yet to Recruit	5				11				4			
Sanctioned by the Management/Society or Other Authorized Bodies	2				2				31			
Recruited	2	0	0	2	1	1	0	2	16	15	0	31
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				46
Recruited	39	7	0	46
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				25
Recruited	14	11	0	25
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	0	0	1	1	0	2	1	0	9
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	1	0	37	45	0	83

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
		UG	Male	1319	29	0
	Female	461	4	0	0	465
	Others	0	0	0	0	0



<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	122	125	113	114
	Female	51	48	48	51
	Others	0	0	0	0
ST	Male	33	44	26	25
	Female	8	12	12	10
	Others	0	0	0	0
OBC	Male	344	307	326	315
	Female	141	123	129	151
	Others	0	0	0	0
General	Male	823	803	801	762
	Female	256	274	238	238
	Others	0	0	0	0
Others	Male	26	58	38	51
	Female	9	20	17	16
	Others	0	0	0	0
<b>Total</b>		<b>1813</b>	<b>1814</b>	<b>1748</b>	<b>1733</b>

### 3. Extended Profile

#### 3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 329

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	7	7	7

#### 3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1813	1814	1748	1733	1506

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
120	120	120	120	120

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

Number of outgoing / final year students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
509	470	426	464	366

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

### 3.3 Teachers

#### Number of full time teachers year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
99	108	104	94	92

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

#### Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
99	108	104	100	92

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

### 3.4 Institution

#### Total number of classrooms and seminar halls

**Response: 22**

#### Number of computers

**Response: 594**

#### Total Expenditure excluding salary year-wise during the last five years ( INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
380.54	378.85	382.08	361.92	314.03

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

##### 1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

##### Response:

- Vidyavardhini's College of Engineering and Technology is affiliated to the University of Mumbai and approved by AICTE. It offers seven undergraduate programs viz. Mechanical Engineering, Electronics & Telecommunication Engineering, Instrumentation Engineering, Computer Engineering, Information Technology, Civil Engineering, and Mechanical Engineering (2nd Shift Direct Second Year).
- Before commencement of every semester, the Principal and Dean (Academics) conduct a meeting with Heads of Department and other functional heads to finalize the academic calendar. It is prepared in line with the guidelines provided by University of Mumbai. It includes all major co-curricular activities like product showcase, project showcase, hackathon etc. and extra-curricular activities like sports, college cultural fest etc.
- Academic calendar is displayed on all notice boards and college website. Heads of Department assign workload to faculty members based on their expertise and subject preferences. Few faculty members are also allocated specific subjects of other departments. The Time table is proposed by the Heads of the Department and approved by the Principal.
- All the faculty members prepare a lesson plan and a course file which includes syllabus, notes and University question papers etc. The Course booklet is also maintained which includes weekly report, course objectives, course outcomes, course outcome-program outcome mapping etc. Bloom's taxonomy is used to classify course outcomes into different levels like remembering, understanding, evaluate, analysis, design and application.
- Day to day lectures and practicals monitoring is carried out by the class in-charge and Head of the Department. Execution of the lesson plan of each course is monitored weekly by Head of the Department and corrective actions are suggested.
- Extra lectures and practicals are conducted for direct second year students.
- Required resources and set-up availability are ensured in the laboratories before the practical conduction.
- Project progress is monitored and evaluated by project guides along with panel of faculty members at various stages. Record of the same is maintained in separate project handbook.
- Effective curriculum delivery is ensured by classroom teaching, modern teaching-learning tools, tutorials, case studies, quizzes, assignments, internal tests, mini projects, industrial visits etc.
- Internal test results are analysed and discussed with students. Remedial classes are conducted for weaker students. Continuous assessment is done through practicals, internal tests, assignments, quizzes, mini projects, term work, projects of each student during the semester.
- Student attendance is monitored monthly and defaulter list is displayed on the notice board Parents are intimated about the same by respective proctors.
- Some faculty members conduct mock oral/practical examinations before University examinations. Performance of students in final oral/practical examination is assessed by external and internal examiners.

- Online feedback about the conduction of course is taken from students twice in a semester and reported to authority for appropriate steps to be taken.
- Most of the faculty members have completed a “Foundation Course in ICT” which is conducted by IIT Bombay in October 2018. The skill acquired by them through this course shall be used for curriculum delivery in the next semester.

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

### 1.1.2 Number of certificate/diploma program introduced during the last five years

**Response: 1**

#### 1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	1

File Description	Document
Minutes of relevant Academic Council/BOS meetings	<a href="#">View Document</a>
Details of the certificate/Diploma programs	<a href="#">View Document</a>

### 1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

**Response: 2.01**

#### 1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	00	0	0

File Description	Document
Details of participation of teachers in various bodies	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

<p><b>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</b></p> <p><b>Response: 95.74</b></p>	
<p>1.2.1.1 How many new courses are introduced within the last five years</p> <p>Response: 315</p>	
File Description	Document
Details of the new courses introduced	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
<p><b>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</b></p> <p><b>Response: 100</b></p>	
<p>1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.</p> <p>Response: 7</p>	
File Description	Document
Name of the programs in which CBCS is implemented	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
<p><b>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</b></p> <p><b>Response: 0</b></p>	
<p>1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years</p>	

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

#### Response:

The curriculum proposed by University of Mumbai addresses the issues of Gender, Environment and Sustainability, Human Values and Professional Ethics in a limited manner. The Institute has therefore taken additional efforts to bring awareness amongst staff and students through various Co-Curricular and Extra-Curricular activities.

#### Gender:

Courses like Communication Skills (FE), Project Management (TE, Computer Engineering), Software Project Management (TE, Information Technology) and Construction Management (BE, Civil Engineering) provide a platform to discuss the gender related issues.

#### Additional efforts taken by Institute to address Gender issue are:

- Providing equal opportunities to girls as coordinators/volunteers/participants in Student Council/Sports/Magazine/Professional Bodies etc.
- Organizing seminars for girls and ladies staff on topics like financial independence, gender equality, fundamental rights etc. through **Women development Cell**
- Addressing issues of sexual harassment through **Internal Complaint Committee**
- Ensuring a ragging free environment through **Anti-ragging Committee**
- Encouraging mix gender groups in project/technical activities
- Following State Government Norms for admission of students and employment
- Well-equipped ladies/boys common rooms
- Celebrating International Women's day every year
- Appointing a counsellor on campus for counselling and mentoring to students/staff

### **Environmental and sustainability:**

Courses like Environmental studies (FE), Environmental Engineering I (TE, Civil Engineering), Environmental Engineering II (BE, Civil Engineering), Water Resource Engineering (TE, Civil Engineering), Solid Waste Management (BE, Civil Engineering), and Industrial Waste Treatment (BE, Civil Engineering) are introduced in the University Curriculum by which Environment and Sustainability awareness is brought into students.

### **Additional efforts taken by Institute in this direction are:**

- Green initiatives like rainwater harvesting and 50 KW grid tie solar power plant.
- Organizing activities like tree plantation and Swachha Bharat Abhiyan.
- Encouraging students to take projects to addressing environmental issues
- Celebrating National Energy Conservation day

### **Human values**

Courses like Communication Skills (FE), Project Management (TE, Computer Engineering), Software Project Management (TE, Information Technology) and Construction Management (BE, Civil Engineering) are meant to impart human values to the students.

### **Additional efforts taken by Institute to inculcate Human Values are:**

- Visit to nearby villages by the UDAAN team for social work
- Organizing various donation camps like Blood Donation Camp, Be A Young Santa This Winter and Mega Donation Camp
- The UDDAN Committee organizes a campaign called “Respect Her” to spread the message to value and Respect Women.
- Enhancing team building/organizational skills of students by encouraging involvement in technical/non-technical bodies.

### **Professional Ethics**

The curriculum of University of Mumbai includes the courses like Business Communication & Ethics (TE, Electronics & Telecommunication Engineering, Information Technology, Computer Engineering), Cryptography & System Security (BE, Computer Engineering) and Digital Forensics (BE, Computer Engineering) which makes the students aware of the Professional Ethics.



**Additional efforts taken by Institute to inculcate Professional Ethics include:**

- Motivating student participation in Co-Curricular/Extra-Curricular activities.
- Strengthening the technical/social awareness through various professional bodies
- Catering to the needs of students from various categories through Minority cell, OBC cell, SC/ST cell etc.
- Fostering entrepreneurship skills and channelize the competencies amongst students through Entrepreneurship cell
- Ensuring use plagiarism check for project reports

File Description	Document
Any Additional Information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years****Response:** 6

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 6

File Description	Document
Details of the value-added courses imparting transferable and life skills	<a href="#">View Document</a>
Brochure or any other document relating to value added courses.	<a href="#">View Document</a>

**1.3.3 Percentage of students undertaking field projects / internships****Response:** 10.65

1.3.3.1 Number of students undertaking field projects or internships

Response: 193

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

<p><b>1.4.1 Structured feedback received from 1) Students, 2)Teachers, 3)Employers, 4)Alumni and 5)Parents for design and review of syllabus-Semester wise/ year-wise</b></p> <p><b>A.Any 4 of the above</b></p> <p><b>B.Any 3 of the above</b></p> <p><b>C. Any 2 of the above</b></p> <p><b>D. Any 1 of the above</b></p> <p><b>Response: A.Any 4 of the above</b></p>	
File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

<p><b>1.4.2 Feedback processes of the institution may be classified as follows:</b></p> <p><b>A. Feedback collected, analysed and action taken and feedback available on website</b></p> <p><b>B. Feedback collected, analysed and action has been taken</b></p> <p><b>C. Feedback collected and analysed</b></p> <p><b>D. Feedback collected</b></p> <p><b>Response: A. Feedback collected, analysed and action taken and feedback available on website</b></p>	
File Description	Document
Any additional information	<a href="#">View Document</a>
URL for feedback report	<a href="#">View Document</a>

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 1.2

##### 2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
33	29	16	16	11

#### File Description

#### Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 96.76

##### 2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
403	400	414	398	417

##### 2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
420	420	420	420	420

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per

**applicable reservation policy during the last five years****Response:** 83.83

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

2017-18	2016-17	2015-16	2014-15	2013-14
101	97	105	99	101

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**2.2 Catering to Student Diversity****2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:**

At the beginning of First Year Engineering, the students are oriented about the academic requisites, various facilities in the college, co-curricular and extracurricular activities (Cultural festival, Sports, etc.). This orientation programme is addressed by the Principal, Dean and the Head of the Departments.

Any course is commenced with discussing its fundamentals, pre-requisites, scope and applications in real world by the concerned faculty to make the students realize the significance of the course in the curriculum. A rigorous analysis is done to identify the diverse learners, like advance, average and slow in a class using the JEE, HSC and MH-CET scores of the students along with their first term test marks in the Semester-I. Test results are analyzed and the students securing more than 75% and above are identified as advanced learner, the students getting a score between 50-75% are recognized as average learners and those having a score less than 50% are termed as slow learner.

**Initiatives taken for the Slow Learners:**

It is observed that, the students usually have difficulty in subjects like Applied Mathematics and Engineering Mechanics. Remedial lectures are arranged for the slow learners for these subjects. A question bank and other resources are provided for self-practice and improvement. Mini projects are a part of the curriculum for certain courses, where in the slow learners are given comparatively easy topics. Other than academics, personal counselling is also provided to the slow learners.

**Initiatives taken for the advanced Learners:**

Advanced learners are motivated to attend workshops on topics beyond syllabus such as Python, Cloud Computing, Machine learning with tensor flow, Programmable Logic Controller, Automation etc. Advanced learners of third and final year are encouraged to appear for competitive exams such as GATE, GRE, TOEFL etc. and lectures are conducted to guide them for preparation of the same.

They are made aware of research-oriented projects, guided to participate in Technical Paper Presentation competitions and publish their research in reputed conferences. They are encouraged to participate in various activities such as BIZ MASTER, E-Summit, internship summit etc. hosted by the Entrepreneurship Cell of the Institute. The students are also motivated to participate in various technical competitions such as Hackathon, Project Showcase, Product Exhibition etc.

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

### 2.2.2 Student - Full time teacher ratio

**Response:** 18.31

File Description	Document
Any additional information	<a href="#">View Document</a>

### 2.2.3 Percentage of differently abled students (Divyangjan) on rolls

**Response:** 0.33

#### 2.2.3.1 Number of differently abled students on rolls

Response: 6

File Description	Document
List of students(differently abled)	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 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

**Response:**

#### Student Centric Methods:

In order to enhance “Teaching-Learning” process, teachers are encouraged to use Information and

Communication Technology (ICT) and National Program on Technology Enhanced Learning (NPTEL) courses, conducted by IIT to achieve outcome-based objectives. Teachers are shifting from the traditional Teaching-Learning process to a more effective and rather an attractive way of teaching which includes Power Point Presentations, Video Lectures and Software Simulations for a detailed understanding of the related subject matter. They are motivated to attend Faculty Training Workshops, Seminars and Short-Term Training Programs to always be updated with the latest technological advancements. Also, they are encouraged to undertake Memorandum of Understanding (MoU) with Industries in order to provide an industrial exposure for the benefit of faculty and student.

### **Experiential Learning:**

Students are asked to conduct a survey for their minor and major projects mentioned in the curriculum. Project selection criteria includes giving consideration to the originality of an idea, the social impact of the same as well as the papers referred from reputed journals or conferences. Being an active team member, good team work, dynamic participation and a detailed study of the same is expected from the students. Industrial as well as department composite projects are further encouraged.

Workshops are organized in various domains to get hands-on experience for enhancing practical knowledge and dexterity. Students are made aware of high end software tools and special purpose equipment's like 3D Printer, Comsol, Spectrum Analyzer, AVEVA Software, MATLAB, LabView etc. which enhances the experimental learning.

Active participation in interactive quizzes, debates, group discussions, role play, games, elocutions, case studies, presentations, mini projects etc. enhance the learning experience even further. Other techniques include animated PPTs and live learning experience. Reports of all the conducted workshops and seminars are maintained by all the respective departments.

### **Participative Learning and Problem-Solving Methodologies:**

Students in the Institute are encouraged to showcase their technical and conveyance skills as well as their competency at State and National Level Conferences, Paper Presentations and Project Competitions. The Institute has various student chapters of national and international professional societies that organize a no. of technical events like "Product Showcase", "Hackathon", "VNPS", etc. VNPS is a national level project competition, where a number of different innovative projects developed by young talents from all over the country are showcased. Committees like "Ethan" are dedicated to working on projects like "Quad-Bike" as well as "Solar Car", where students from different departments come together to work on a common project.

Also, events tackling business and management issues are also organized by the Entrepreneurship Cell. In addition to this, students are also acquainted with course objectives and outcomes. Lectures are delivered by faculties to ensure that the outcomes are attained. Collaborative learning is achieved through practical, orals and assignments based on the respective subject matter.

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

### 2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

**Response:** 92.93

#### 2.3.2.1 Number of teachers using ICT

Response: 92

File Description	Document
List of teachers (using ICT for teaching)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and stress related issues

**Response:** 18.31

#### 2.3.3.1 Number of mentors

Response: 99

File Description	Document
Any additional information	<a href="#">View Document</a>

### 2.3.4 Innovation and creativity in teaching-learning

**Response:**

The Institute regards interactive learning experience as an essential component of creative teaching. Use of modern tools and methodologies are obligatory for professors to express their ideas and knowledge in an exceedingly interesting and aesthetic way. Therefore, the institute values technological innovations and the ripples of positive transformation it brings along especially when it comes to education.

Following techniques and tools are used by faculty to make teaching more interesting and innovative

- **Digital Learning** - The internet has brought about a phenomenal change in the way we look at education. Education without internet in today's world sounds incomplete. Students now have access to a wide range of online tools and software as well, which will enhance their skills and make them future ready.
- **Problem based learning** - Students are also encouraged to take up challenging technical problems and solve them through mini, major and industry projects. The outcome of all this brainstorming

curriculum and projects is the birth of some innovative solutions which helps in resolving real life challenges faced by people today. It also makes the students industry-ready as they feel confident enough to face and resolve challenges faced by industries today.

- **Innovative tools** – Faculties are motivated to share their lecture notes/ PPTs for ready reference to the students. Also, for better understanding of certain critical topics faculty prepares simulation models for demonstration. 3D models are also made available to the students by the Institute, such models provide an environment for interactive student engagement.
- **E-Learning** - With the realization of e-resources as the future of reading and the various advantages it offers besides being eco-friendly as well, the Institute promotes and encourages students to use e-books. The central library of the Institute has the facility to access various e-resources like e-books, e-journals, etc. Faculty encourages students to explore NPTEL lecture series as well as YOU tube videos to understand the concepts in detail.
- **Establishing various student chapters** – There are various student chapters in the Institute which inculcate specific characteristics amongst the students such as team-spirit, team-work, managerial skills, social and ethical values and nationalism. These chapters frequently organizes seminars, workshops and hands-on training on emerging technological development by experts from industries. To enhance problem solving, logical thinking and development skills students are encouraged to take up challenging problems. The Institute has an ETHAN racing team working on designing a prototype racing car. Also, a 30 hours Hackathon is organized to promote a strong programming and product building culture among students.
- **Design and development of real time projects** – Students are motivated to work in a team to identify and analyze real time societal problem. And take an initiative to figure out with optimum solution.

To satisfy the global need teaching and learning process need to be updated progressively with modern tools.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 2.4 Teacher Profile and Quality

### 2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

**Response:** 98.8

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>

### 2.4.2 Average percentage of full time teachers with Ph.D. during the last five years



**Response: 4.88****2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
9	3	3	5	4

**File Description****Document**

List of number of full time teachers with PhD and number of full time teachers for 5 years

[View Document](#)

Any additional information

[View Document](#)**2.4.3 Teaching experience per full time teacher in number of years****Response: 9.21****2.4.3.1 Total experience of full-time teachers**

Response: 912

**File Description****Document**

Any additional information

[View Document](#)**2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years****Response: 5.03****2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years**

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	2	0	1

**File Description****Document**

Institutional data in prescribed format

[View Document](#)**2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the**

**last five years**

**Response:** 10.18

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
9	10	10	11	11

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

**2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level**

**Response:**

A well-structured evaluation methodology ensures that students are up-to-date when it comes to academics along with their co-curricular activities. As per guidelines of University of Mumbai, the Institute organizes centralized internal term test twice in a semester, syllabus of which is priority informed to the students. Evaluation of these tests and grading are documented precisely and displayed as well.

The assessment of term work marks is based on the following criteria:

**Assignments:** Assignments are given to students and the same are graded on the basis of timely submission, appropriate contents and its neatness. Sometimes challenging problems are given in assignment and additional marks are given for unique solution.

**Practical and Tutorial:** Practicals and Tutorials are conducted weekly, submission of a practical is done a week after it's performance. Evaluation is done on the basis of timely submission, mock oral and the writing skills.

**Presentation and Communication skills:** A group of 2-3 students is formed to give a presentation, over a topic related to the subject, which is conducted under the surveillance of Professor in-charge of the subject. This activity help students to improve their Communication Skills and Public Speaking skills

**Quizzes:** Quizzes mostly consisting of comprehensive objective questions related to subject and its applications are conducted and marks are considered for the Term Work.

**Workshop:** workshops are conducted weekly as per the syllabus and evaluation is done by the subject

expert on various parameters like time taken to complete the job, workmanship and resources consumed.

**Projects:** Projects (mini and major) are evaluated over different parameters. The measures on which performance is judged are as follows:

- **Surveying:** Initial survey is the part in which project idea is identified through critical analysis of the results of Survey. Progressive survey is done to overcome the difficulties while the project progresses and is considered while evaluation.
- **Applications:** It is an essential component for evaluating a project, as a project when completed should be applicable in multiple products.
- **Literature Survey:** It deals with Quality, proper understanding and analysis of the project. The aim of this survey is to acquaint students with new technologies and Methods to implement the Project.
- **Implementation:** It consists of Implementation, Testing and Troubleshooting of the Project. The Final Integration of all the components is the most crucial parameter on which the product is judged.
- **Teamwork:** The prime objective of a project done in group is to build Team Working Skills in an individual.
- **Presentation:** This parameter is included to evaluate an individual/ team on the basis of their Communication and Presentation Skills. Demonstration of the project is also included in the Presentation.

Our College has a Centralized Assessment Process (CAP) center wherein answer sheets are coded, evaluated and moderated as per university norms. Results are submitted to the university before timelimit. Also On-line assessment for First and Final year is carried out smoothly to speed up evaluation process for declaration of results within stipulated time.

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

### 2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

#### Response:

- At the beginning of semester FE orientation program is conducted for students and parents to make them aware of evaluation process.
- Based on the University of Mumbai's academic calendar, Institute level academic calendar is prepared, clearly indicating the internal test, oral / practical dates.
- Two internal test for regular students and one internal test for fail students are conducted as per the academic calendar.
- Staff declares the syllabus one week before conduction of term test. Also, marking scheme and assessment criteria are explained to the students in advance.
- Term test answer papers are assessed and shown to the students and results are displayed on the departmental notice boards.
- Assessment scheme of practicals and tutorials is explained to the students at the beginning of the

term, which are assessed weekly.

- The marks of internal test, term-work, oral and practicals are recorded in proper format.
- End semester exams are conducted by the college as per the timetable declared by the University of Mumbai.
- The norms / instructions of UoM are strictly followed to maintain the confidentiality. All the answer sheets are shuffle, masked and then coded.
- To confirm that the question papers are received in the exam room in sealed envelopes, the sealed question paper envelops are shown to the students and signature of two students is taken on the envelope.
- To prevent the identity of the students, the seat number on the main answer sheet, supplement, graph paper and other related material is masked by black masking sticker.
- The answer papers are assessed in the CAP centre and also moderated as per University norms.
- To appreciate the efforts of meritorious students their names are displayed in departmental and college magazine. They are also felicitated during the annual college function that influences all the students to enhance their performance.

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

### 2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

#### Response:

#### Redressal of grievances (University Level Exam)

The mechanism for redressal of grievances with reference to evaluation at the University level is as per the rules laid down by University, which includes accepting the request / forms for photocopy and revaluation from the students. Students are given 15 days' time from the date of declaration of their result to apply for photocopy of their answer books and also to apply for revaluation. The received applications are forwarded to the University.

On receipt of the photocopy, if the student notices mistake in total and / or non-assessment of a question / sub-question, he / she must apply to the Principal in the prescribed form within 3 days from the date of receipt of the photocopy, which is forwarded to the University.

#### Redressal of grievances (Institute Level Exam)

The mechanism for redressal of grievances with reference to evaluation at the Institute level is also as per the rules laid down by University, which includes accepting the request / forms for photocopy and revaluation from the students, within 7 working days' from the date of declaration of their result. The answer books of the students who have applied for revaluation, are taken out, masked again and sent to examiners of different colleges for revaluation.

On receipt of the photocopy, if the student notices mistake in total and / or non-assessment of a question / sub-question, he / she must apply to the Principal in the prescribed form within 3 days from the date of receipt of the photocopy, all such grievances are forwarded to the concerned internal examiners for necessary action.

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

#### 2.5.4 The institution adheres to the academic calendar for the conduct of CIE

##### Response:

An Academic Calendar is prepared in the Institute before the commencement of every semester in accordance with the schedule of academic term issued by Dean (faculty of Technology), University of Mumbai. The information regarding the best suitable dates for various academic, co-curricular and extra-curricular activities is accumulated during the meetings with Head of the Departments, Registrar, Controller of Examination, Students Council In-charge, Sports In-charge, Placement Manager etc. and included in the Academic Calendar.

The Institute strictly adhere to the schedules and deadlines published in the academic calendar.

The major activities like:

- Term start and end dates,
- Internal assessment,
- Declaration of Internal Assessment test results,
- Online feedback,
- Course and program exit surveys,
- Defaulter list and attendance track record by proctors and Head of Departments,
- Major co-curricular and extra-curricular activities,
- Commencement of theory /practical/viva exams etc. are strictly adhered to the schedule.

Any need for a change in schedule is permitted after due deliberation in the meeting of Head of Departments. Also, the Institute separately publish departmental activity calendar and strictly adhere to its schedule.

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

## 2.6 Student Performance and Learning Outcomes

### 2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

#### Response:

Vidyavardhini's College of Engineering and Technology adheres to the Programme Outcomes (POs) as specified in Washington Accord adopted by National Board of Accreditation (NBA), India. Four programs of the Institute were accredited by NBA for the duration 2012-2015. There are 12 POs viz. Engineering knowledge, Problem analysis, Design/ development of solutions, Conduct investigations of complex problems, Modern tool usage, The engineer and society, Environment and sustainability, Ethics, Individual and team work, Communication, Project management and finance, and Life-long Learning. These POs describe the basic qualities the graduating student will exhibit on the completion of the engineering programme.

Also, each programme has defined Programme Educational Objectives (PEOs) and Programme Specific Outcomes (PSOs). The Institute follows the guidelines defined by NBA to formulate PSOs, PEOs and COs. These PEOs and PSOs describe the qualities specific to the programme which the department wants to inculcate in the students as they complete the programme. These are the carrier and professional targets set by each department to improve the quality of education. These POs, PEOs and PSOs are explained to the students at the beginning of the semester.

These POs, PEOs and PSOs are published on

- College website
- Department Office
- Course booklet of each subject
- Department notice board

The Institute is affiliated to University of Mumbai and follows the syllabus set by the university. University of Mumbai adopted Credit Based Semester and Grading System (CBSGS) with effect from the academic year 2012–2013 (REV-2012). University of Mumbai then adopted Choice Based Credit and Grading System (CBCGS) with effect from the academic year 2016–17 (REV-2016). The focus of these revisions is to move from teacher-centric approach to student-centric approach, with an emphasis on continuous evaluation.

To fulfil these objectives, for each course, the respective teacher in consultation with senior staff members of that domain defines Course Objectives and Course Outcomes (COs) in accordance to the syllabus of University of Mumbai. Students are briefed about the COs by respective faculty members in introductory lecture(s) of the course. They are also mentioned on the course booklets by the faculty for the respective course. These COs of all courses of each department are also published on the college website.

File Description	Document
COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>



### 2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

#### Response:

The Institute has developed a method to measure attainment of Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO). The steps adopted to measure these attainments are as follows:

1. All the teachers prepare effective lesson plan for theory and lab manual for practical subjects in link with Course Objectives.
2. Teacher defines COs in consultation with senior staff members of that domain in link with COs provided by the University of Mumbai.
3. COs are mapped with POs/PSOs.
4. Assessment of POs/PSOs is carried out in two parts, viz. Internal assessment and External assessment.
5. Internal assessment has two components, viz. Direct assessment and Indirect assessment.
6. Direct assessment includes tools like Term tests, Quizzes, Assignments, Tutorials, Laboratory Experiments, Seminars, Mini projects, Surveys based on the course requirement.
7. Indirect assessment is carried out using Course Exit Survey.
8. The scores of Direct and Indirect assessments gives the attainment level of COs.
9. External assessment is performed through End Semester Exam, Viva-voce and/or Practical Exam conducted by University.
10. External and Internal assessment together contribute to the attainment of POs/PSOs. External assessment is given a weightage of 80% and Internal assessment is given a weightage of 20%.
11. Students are encouraged to take part in co-curricular and extra-curricular activities organized by various student chapters in college.
12. Students are motivated to present paper in national and international conferences.
13. Based on the attainment of COs, POs and PSOs, and observation made during the semester; a corrective action is taken to improve the understanding of the students.

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

### 2.6.3 Average pass percentage of Students

Response: 97.64

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 497

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 509	
File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

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

**Response:** 3.36

NAAC



## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)**

**Response:** 28.32

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.6	1.3	25.22	0.75	0.45

#### File Description

#### Document

List of project and grant details

[View Document](#)

e-copies of the grant award letters for research projects sponsored by non-government

[View Document](#)

**3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year**

**Response:** 0.07

3.1.2.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 11

3.1.2.2 Number of full time teachers worked in the institution during the last 5 years

Response: 161

#### File Description

#### Document

Supporting document from Funding Agency

[View Document](#)

Any additional information

[View Document](#)

Funding agency website URL

[View Document](#)

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

#### Response:

#### Innovation ecosystem

The creativity and innovation have become essential aspects for professional engineer in order to add value to the organization and hence for his career safety. The ecosystem of VCET for innovations include E-cell, research laboratory, faculty with research experience (Nine Ph.D. holders) and activities which inculcate creativity in students. The activities include

- Working on research problem under senior faculty.
- Working on innovative research project for “AVISHKAR”
- Participate in HACKATHON
- Working on sponsored industry problem.

#### E-cell activities

The E-cell educates the students about innovation and creativity. The process of identified need or business opportunity. The advance learners work on research topics under guidance of senior faculty. The students are motivated to publish their research work in conferences/ journals. The students participate in innovative research project competition “AVISHKAR”. Few alumni of the Institute are running their own industry.

#### Research Cell activities

- Completion of funded research project on “Design and development of WR-284 based 500 kW CW High Power Circulator at 3.7 GHz”. The project was collaborated with Institute of plasma research, Gandhinagar. The research grant of Rs. 23.57 Lacks was received. The research laboratory was created in the Institute. The same facility is being used by staff members for their Ph. D. work.
- The faculty members have completed different minor research projects funded by Mumbai University.
- Project on “Disaster Recovery Report System” has been completed in association with Revenue Department of Government of Maharashtra.
- Faculty and students were consistently participating in AVISHKAR as well as Smart India Hackathon where they explore their research for the society.

#### Notable sponsored projects

- Development of water O-BOT,
- Development of peddy extraction machine, rice plantation machine,
- Banana tree fibre extraction machine,
- IoT related innovative projects like Soilless Plants Hydroponics, Aquaponics for Palghar and

Jalgaon region farmers.

- Biometric Self Defense Device with GSM Alert and GPS Tracking.
- 0.5 mm click pencil assembly line automation, highlighter pen assembly line automation for Kokuyo Camlin Limited Vasai.
- Solution for SADM damper operation for Larsen and Toubro

### Incubation Center

The incubation centre in the Institute is under development stage. Under the umbrella of Incubation centre, the activity clubs such as Entrepreneur Cell (E-Cell) was functioning since year 2015. The students from all the departments are actively participate in programs such as BIZ MASTER where the experts demonstrate ideas about business plan and its development. E-Summit, internship summit are some of the event where of entrepreneurs, innovators and game changers share their real-life stories.

### Creation and transfer of knowledge

The creation of knowledge and transfer need the filing of patents. Intellectual Property Rights (IPR) cell installed in the Institute. Mr. Prashant Sathe, Mechanical graduates of batch 2017 filed a patent on Automated Pressure Cooker Whistle based on his final year project. Workshops have been conducted to create awareness about the IPR and the process of acquiring patents.

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

### 3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

**Response:** 78

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
31	17	16	9	5

File Description	Document
List of workshops/seminars during the last 5 years	<a href="#">View Document</a>

### 3.3 Research Publications and Awards

#### 3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

**Response:** Yes

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

**Response:** Yes

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 3.3.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years

**Response:** 0.04

##### 3.3.3.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	9	2	2	0

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 0.68

##### 3.3.4.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
11	26	14	9	8

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4 Extension Activities

#### 3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

##### Response:

The Institute considers its utmost priority to work for the betterment of the society and believes in returning what we get from it. To inculcate these vital objectives among all students, the Institute focuses on sensitizing the students to social issues and holistic development. The inception of UDAAN was a result of the responsibility of the Institution and students towards the social scenario of society. It is a non-profitable society started by students in year 2014-15 at VCET.

UDAAN has many interested and talented volunteers, who are committed to social service. Only criteria to absorb them is - great enthusiasm and zest towards the journey of the change UDAAN believes in. Under the theme, UDAAN ...The flight towards Change ..., the activities are initiated are

- **Teaching campaign** at Saraswati Vidya Mandir, Tilher village and unprivileged children of Swagat Ashram, Malad in collaboration with an NGO-Unnat Foundation. Team has conducted various sessions and lectures on the varied topics like Spoken English, Mathematics, Personality Development and Competitive examination preparation etc.
- **Blood Donation Camp** in association with Lions Club, Vasai and J. J. Mahanagar Blood Bank under observation of Sir J. J. Hospital doctors and student volunteers. This activity is being organized every year in our campus.
- **Mega donation campaign**, where everyone from Institute donated various items like grains, clothes, books, toys, pen, pencils, notebooks, cycle, games, rice, etc .for meeting the need of underprivileged people. The donations were made to the Narayna Chandra trust, (a Balgruha /an Orphanage) Virar west, Gonsalo Garcia Ashram, Umela Phata Slums and Trinity Old age home at Vasai.
- **Health Awareness** event to create an alertness about the consequences of neglecting health during routine life & advantages of donating blood.
- Visit to Holy Cross senior citizen old age home to serve them, share thoughts and spent time with them on every Sunday during the semester.
- UDAAN team supported the Mass social event VIRAR RALLY, which was an awareness rally

against the Virar girl's incident. UDAAN encouraged progressive thoughts among people like not having blind trust, being more aware and girls independently fighting against objectification.

- In the wake of crime towards women at a high, the UDAAN team kicks started a campaign with theme 'Save Girl ', where different modes of creating awareness such as letters, pamphlets during street play highlighting and praising women were distributed.
- UDAAN has now become a part of our life and each person in our committee has become a part of this family. Different minds, different streams coming together for the change they believe in.

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

### 3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

**Response: 8**

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	2	1	2	0

File Description	Document
Number of awards for extension activities in last 5 years	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

**Response: 14**

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

2017-18	2016-17	2015-16	2014-15	2013-14
3	4	5	2	0

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach programs conducted with industry,community etc for the last five years	<a href="#">View Document</a>

#### 3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

**Response:** 12.2

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
236	452	0	300	87

File Description	Document
Report of the event	<a href="#">View Document</a>
Average percentage of students participating in extension activities with Govt. or NGO etc.	<a href="#">View Document</a>

### 3.5 Collaboration

#### 3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

**Response:** 0

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of Collaborative activities for research, faculty etc.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response: 4**

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	0	0	1

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	<a href="#">View Document</a>



## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

The Institute follows the norms laid down by the AICTE and the University of Mumbai for creating and enhancing the infrastructure adequate to the strength of students. This makes the teaching-learning process more effective. The Institute always gives priority to upgrade the facilities whenever the change is indicated in University regulations.

The Institute has **5 acres** of land which is twice of that stated in the AICTE norm for urban areas. It has a **five** storey building with a built-up area of **14193 sq.m**. This includes **8531 sq.m** of Instructional Area, **560 sq.m** of Administrative Area, **1392 sq.m** of Amenities and **3512 sq.m** of Access/Circulation Area. The details of the same are as follows:

#### Instructional Area

- Classrooms - 1354.39 sq.m
- Laboratories - 3213.55 sq.m
- Drawing Halls -180.55 sq.m
- Tutorial Rooms - 286.98 sq.m
- Workshop - 236.5 sq.m
- Computer Centre - 177.19 sq.m
- Library and Reading Hall - 448.12 sq.m
- Seminar Halls - 451.1 sq.m
- Additional Workshop - 886.81 sq.m
- Research Centre - 25.5 sq.m.

#### Administrative Area

- Principal's Office - 42.98 sq.m
- Administrative Office - 158.38 sq.m
- Exam Cell - 210.9 sq.m
- Board/Conference room - 36.96 sq.m
- Faculty Room - 220.76sq.m
- Security Cabin - 16.8 sq.m
- Placement Office - 50.35 sq.m
- HOD Cabins - 70 sq.m
- Department Office - 146.68 sq.m.

## Amenities Area

- Girls Common Room - 116.02 sq.m
- Canteen - 227 sq.m
- Stationery Store - 18.81 sq.m
- Rest rooms- 306.56 sq.m,
- First aid cum Counselor room - 10 sq.m
- Sports Club/Gymkhana and Boys Common Room- 224.75 sq.m
- Auditorium- 750 sq.m,
- Student activity room – 42.73 sq. m.

The Institute has upgraded all the **classrooms** with modern teaching aids and ICT facilities such as multimedia projector, internet access. Teaching faculty are provided with an individual laptop. Every department is provided with 'walk-and-talk' portable public address system.

All **laboratories and workshops** are well furnished and equipped with latest experimental hardware/software/instruments. The Institute regularly upgrades its facilities to meet the technological advancements. The Institute has upgraded to the **48 Mbps** of leased line.

The Institute accommodates a fully air-conditioned **Auditorium** of Vidyavardhini's Trust with seating capacity of **650**. The Institute also has **3 Seminar Halls** with ICT facilities with seating capacity of **150** each. One of the seminar hall is equipped with digital podium with Lecture Capturing feature.

The Institute has enough **computing facilities** with 594 computers with latest hardware/software and are allotted to various laboratories and library. All the computers are interconnected through LAN. The security of computing equipment is taken care by Quick Heal Seqrite 7.1 E.P.S. Cyberoam 100 iNG DPU Firewall.

The **Central Library** of the Institute has a large book collection and a spacious **Reading hall** with the seating capacity of **150** students. The Central Library also has a digital section.

The Institute also has **50 kW** capacity grid tie Solar Power Plant, Power Generators of capacity **200 KVA and 63 KVA**. The Institute is facilitated with industrial **RO** plant for drinking water and rain water harvesting for non-potable water.

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

#### 4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor), gymnasium, yoga centre etc., and cultural activities

##### Response:

The Institute provides the right stimulus to the budding engineers to participate in the arrays of extra-curricular activities in order to inculcate team spirit and leadership skills. The Institute fundamentally aims on an integrated approach to bring about the all-round development of the students. Well organized student committees organize and co-ordinate the cultural, sports, literary and various other extra-curricular activities under the leadership of respective student representative and guidance of faculty advisors.

**Sports and Games:** The Institute has a multipurpose play ground of nearly **980 Sq. m.** and a volleyball court of **167 sq.m.** The Institute is equipped with ample sports equipment and facilities for the sports enthusiasts. The Gymnasium is fully furnished with equipment pertaining to Table Tennis, Carrom, Chess, Cricket, Volleyball, Throw ball, Football, Kabaddi, Kho Kho, Badminton and several other indoor and outdoor sports. The Institute also conducts an Annual Sports Festival - 'AAVAHAN', a 10 days intercollegiate sports competition. Although, a majority of sports events are conducted within the college campus, The Institute hires 'Chimaji Appa Ground' for smooth conduction of Overarm Cricket and Athletics.

**Cultural Activities** - Every year, The Institute organizes its cultural festival 'ZEAL' which aims at fostering talents and creating an ambience to showcase them on a vibrant platform. 'ZEAL' is a three days event featuring numerous cultural events like dance, music, drama, literary and fine arts, and participation of students in huge numbers bring alive the magnificent campus of the Institute. The Institute provides all the facilities like auditorium, open air theater and financial assistance required to carry out all the cultural events.

A spectrum of literary events such as 'Kavi Sammelan', 'Debate Competition' etc. are also organized to provide the emerging writers and orators a right platform to exhibit their talents. In addition, Institute also actively celebrates Yoga Day, Teachers Day, Republic Day, 'Marathi Bhasha Divas', 'Swachata Pakhwada', Independence Day and several other days with enthusiastic participation from both teachers and students. To enhance the concentration of students the institute also conduct daily breathing exercise and meditation for the students under life skill practices.

To broaden the domain of their capabilities, the students are encouraged and provided with the funds to participate in several inter-collegiate events. For smooth conduction of these activities, a separate activity room is provided to the various student committees.

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

**4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc****Response:** 100

## 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 22

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	<a href="#">View Document</a>
any additional information	<a href="#">View Document</a>

**4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.****Response:** 63.56

## 4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
219.5	265	277	230	170

File Description	Document
Details of budget allocation, excluding salary during the last five years	<a href="#">View Document</a>
Audited utilization statements	<a href="#">View Document</a>

**4.2 Library as a Learning Resource****4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

**Library Automation:** The Central Library of the Institute is partially automated using Integrated Library Management System (ILMS) software or 'E-Granthalaya', through which books can be searched by Author's name, Title, Accession no, Publisher Name etc. Its various modules facilitate users with searching and borrowing process of books from the Library.

The Library has a collection of 31,674 volumes and 11,513 titles. Various printed journals are also available in the Library. Central library has maintained all the previous syllabus copies since year 1994 for reference of the Alumni as well as previous year's Question Papers are available for reference, department and semester wise. The Library facilitates with the access of daily popular newspapers in Marathi & English language (including Employment News) and technical journals for reading as well as home lending.

A separate reference section for weekly/monthly magazines and journals such as Economics & Political Weekly, Kurukshetra, Lokrajya, Yojna published by Government of Maharashtra is available in the Library. Also, books for preparation of various competitive exams such as Competitive Success Review etc. are available in the Library. Additionally, the library also has a decent collection of Marathi and English novels, self-help and inspirational books.

Area of Library is 448.12 Sq. m including spacious reading hall with a capacity of 150 Students

<b>Name of ILMS software:</b>	E-Granthalaya
<b>Nature of the automation:</b>	Partially
<b>Version:</b>	e-Granthalaya (Network addition version 3.0 – 2007) R 32, Updated 16 July 2018
<b>Year of Automation:</b>	March 2013

<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

#### **4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment**

**Response:**

The Institute's Central Library has good collection of 31,674 volumes out of which 1,117 volumes are available for book bank facility.

The Library also has a good collection of various rare books and Reference books including Encyclopedia, Handbooks, Data Books, Manuals etc. from the renowned publishers like CRC press, McGraw Hill, Forest Press, Entagon Press, IEEE Press, Chapman and Hall, Taylor and Francis, Grolier, Pearson, Dower Publisher and many more. It also includes Bureau of Indian Standards (BIS) for Civil Engineering. These books are over and above prescribed in the curriculum and rarely found in the libraries of any technical institutes. PhD thesis of the faculty members are available in the Library.

The Central Library has developed a collection of General Reading Books, including the books in the areas of Fiction/Non-Fiction, Motivational, Leadership Qualities, Interview Techniques, Soft Skills, Management, Competitive Examination Books Such as GATE, CAT, Year Books, Numerical and General Aptitude, Verbal and Non-Verbal test of Reasoning, General and Intelligence Test of Reasoning. These books are helpful for the placement and preparation of qualifying examination.

It is regular practice to display the new books, current magazines and journals on the new arrival display racks. Daily News papers are available on the newspapers stand.

The Central Library has Pearson Digital Library package of e-Books. All these e-books are remotely accessible to students and staff of the institute through following link <https://digital-library.pearson-intl.com/app>.

The Central Library made available the WEB OPAC of e-Granthalaya library software through LAN Access on the link <http://192.168.7.125/eg3opac/default.aspx>

The Central Library organises training sessions for the students and faculty members to guide them regarding the usage of the e-resources.

The Central Library has a record of old and current syllabus, question papers, year and branch wise since the inception of the Institute. It helps the alumni who are seeking admissions to foreign universities for transcript and to get exemptions in particular subjects.

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

**4.2.3 Does the institution have the following:**

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

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

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

**Response:** 8.81

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
9.18248	11.75657	11.3067	8.2776	3.54783

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

#### 4.2.5 Availability of remote access to e-resources of the library

**Response:** No

#### 4.2.6 Percentage per day usage of library by teachers and students

**Response:** 6.64

4.2.6.1 Average number of teachers and students using library per day over last one year



Response: 127

File Description	Document
Any additional information	<a href="#">View Document</a>

## 4.3 IT Infrastructure

### 4.3.1 Institution frequently updates its IT facilities including Wi-Fi

#### Response:

The Institute has well-organized IT Infrastructure. There are 594 computers in the Institute. All these computers are connected through LAN and are allotted to various laboratories. Computer systems are upgraded with latest configuration as per the need of various departments. IT Infrastructure of the Institute has been augmented gradually as and when there is a requirement to introduce new technology to the students and faculty members.

The upgradation of computers is done by replacing old desktops with high end configuration processors such as 1 GHZ to 3 GHZ core I3. The RAM of the computers has been upgraded from 1 GB to 4 GB/8 GB. The Institute has upgraded the System software as well as Application software as per syllabus. The Institute has purchased two higher end HP servers with 16 GB memory each. The servers are fully scalable up to 128 GB memory and one workstation of 128 GB memory.

The Institute established its internet facility in the year 2012, with a speed of 8 Mbps which has now been extended to 32 Mbps (1:1 upload and download aspect ratio) main internet line plus a 16 Mbps (1:1 Upload and Download aspect ratio) backup line. Also, Dlink switches have been replaced by Cisco SG-200 and 300 switches. Structured cabling is upgraded to CAT6 from previous CAT5 enabling system up gradation from 10/100 to 100/1000 network. The Administrative office and some of the laboratories are Wi-Fi enabled. Internet facility is available in the Facilitation Centre as well as in laboratories, exam section, administrative office and library. The total internet bandwidth is 48 Mbps leased line procured in the year 2018. The centralized IT team and the lab technician of the respective laboratories maintain the entire infrastructure.

The Institute gives prime importance to Information and Network security, to take care of that the Institute had Symantec antivirus 12.1 which was later upgraded 14.1. At present, Symantec antivirus 14.1 has been replaced with Quick Heal Seqrite 7.1 E.P.S. The Institute has one CYBEROAM 100 iNG DPU Firewall which is upgraded from 50 IA. The firewall is also used to allocate internet bandwidth to all the users.

All the laboratories have structured cabling and are connected to the central point through optic fiber, and back up line with CAT6 cable. The throughput of the backbone LAN network is 1 Gbps and all the laboratories are distributed from ground to fifth floor. These laboratories are connected through Cisco layer-2 manageable switches located on each floor. All the floor switches are further connected to the central switch which is layer-3 Cisco switch that act as a router. The topology of backbone network is Star Topology. Institute has grouped the network into Virtual LAN (VLAN) as per department. Each department has separate VLAN. The Institute has provided a Laptop and internet facility to each faculty for smooth conduction of teaching learning process.



Printing and scanning facilities are available for the students in the laboratories of their respective departments.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 4.3.2 Student - Computer ratio

**Response:** 3.05

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

#### 4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

**>=50 MBPS**

**35-50 MBPS**

**20-35 MBPS**

**5-20 MBPS**

**Response:** 35-50 MBPS

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

#### 4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

**Response:** Yes

<b>File Description</b>	<b>Document</b>
Facilities for e-content development such as Media Centre, Recording facility,LCS	<a href="#">View Document</a>
Link to photographs	<a href="#">View Document</a>

## 4.4 Maintenance of Campus Infrastructure

#### 4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

**Response:** 36.89

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

2017-18	2016-17	2015-16	2014-15	2013-14
138.54602	148.71977	140.88014	114.48695	126.47440

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>
Audited statements of accounts.	<a href="#">View Document</a>

#### 4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

**Response:**

##### 1. Academics: Laboratories, Computer and Internet Facilities Maintenance:

At the end of every semester, the dead stock in each laboratory is checked and the status of the equipment is duly recorded in the dead stock register. Preliminarily, the lab technicians cater to repair of the non-working equipment. Equipment which is not repairable by the lab technicians are directed to professional vendors. Vendors after checking the status of the non-working equipment, quote the estimated cost of repairing. The quotation is approved from Principal/Management through HOD and the equipment is then repaired by the approved vendor in the Institute or at their workplace.

In case of computers and/or IT Infrastructure, a complaint is registered in the Complaint Register kept in the Computer Center. The technician from Computer Center visits the labs to repair the equipment which is not covered under the warranty clause. Quotations for repair works are called upon if required. The equipment/system covered under warranty period are serviced by seller/distributor/vendor either on campus or at their workshop. Maintenance of CCTV is done in-house. The ICT infrastructure is maintained by Computer Center staff.

##### 2. Library stock maintenance:

The Central Library has a vast collection of books, journals, periodicals, data books etc. It is necessary to maintain and stack the books properly to facilitate easy access. The stacking arrangement of the books is

based on “Dewey Decimal Classification” for easy and instant access, whereas Periodicals and Journals are arranged on exclusive racks. The book binding of worn out books is carried out regularly to increase their life of use. To keep the track of the books, physical stock verification is done.

### 3. Classrooms:

In order to maintain and clean the classrooms, Annual Maintenance Contract (AMC) is given every year to a professional agency to ensure clean and hygienic study environment for students and the ICT facilities are maintained by departmental staff.

### 4. Physical and Support facilities:

For maintaining all supporting facilities such as wash rooms, garden, DG Set, civil work, electrical work, lift maintenance, water tank cleaning, AC servicing, Photocopy machine maintenance etc., the professional agencies are hired, which operate under Standard Operating Procedures. Refilling of the fire extinguishing cylinder is done every year through an external agency.

In order to scrap any equipment which is obsolete or beyond repair, a standard operating procedure is followed, which involves the consent of Principal and Management.

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

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

**Response:** 40.83

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

2017-18	2016-17	2015-16	2014-15	2013-14
767	753	707	655	634

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	<a href="#">View Document</a>

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 7.03

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
116	116	120	121	128

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**5.1.3 Number of capability enhancement and development schemes –**

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

**A. 7 or more of the above**

**B. Any 6 of the above**

**C. Any 5 of the above**

**D. Any 4 of the above**

**Response:** A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

**5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years**

**Response:** 14.77

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

2017-18	2016-17	2015-16	2014-15	2013-14
661	371	82	189	20

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

**Response:** 0

#### 5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of the students benefitted by VET	<a href="#">View Document</a>

### 5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

**Response:** Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View Document</a>
Details of student grievances including sexual harassment and ragging cases	<a href="#">View Document</a>

## 5.2 Student Progression

### 5.2.1 Average percentage of placement of outgoing students during the last five years

**Response:** 49

#### 5.2.1.1 Number of outgoing students placed year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
245	233	268	252	110

File Description	Document
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>

### 5.2.2 Percentage of student progression to higher education (previous graduating batch)

**Response:** 2.16

5.2.2.1 Number of outgoing students progressing to higher education

Response: 11

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>

### 5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

**Response:** 88.06

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
47	40	65	22	8

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
110	41	65	22	8

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

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

**Response:** 0

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<a href="#">View Document</a>
e-copies of award letters and certificates	<a href="#">View Document</a>

#### 5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

**Response:**

The aspiration of our young generation to become a leader in various aspects of life, is nurtured in the Institute through various activities. One of the measures to fulfill this is to promote representation of students on various Administrative, Academic and Non-academic bodies/ committees.

##### A. Administrative Bodies

The Institute ensures the participation of students in Administrative bodies such as



- 1.College Development Committee
- 2.Internal Quality Assurance Cell
- 3.Women's Development Cell

The main objective of having students' representation on above listed administrative bodies/ committees is to encourage their views and address to their personal, social and academic issues through these committees.

### **B. Academic bodies/ committees:**

Institute has various Students Chapter and Associations such as:

- 1.Indian Society of Heating, Refrigerating and Air Conditioning Engineering – (ISHRAE)
- 2.Institute of Electrical & Electronics Engineering – (IEEE)
- 3.Institute of Electronics & Telecommunication Engineers – (IETE)
- 4.International Society of Automation – (ISA)
- 5.Computer Society of India – (CSI)
- 6.Vidyavardhini's Mechanical Engineers Association – (VMEA).
- 7.Electronics and Telecommunication Association – (ETA).
- 8.Civil Engineering Students Association – (CESA)

These chapters help in fostering hobby-based learning in the technical and scientific field. They promote different technical activities like paper and poster presentation, project competitions, etc. The highlights are product showcase and Vidyavardhini's National Project Showcase organized by all departments, ABACUS and HACKATHON hosted by Computer Engineering and Information Technology department respectively.

### **C. Non-academic bodies/ committees:**

Students at VCET engage themselves in a large number of extra-curricular activities. A student can find an interesting committee/ cell corresponding to almost any hobby. Some of these are:

- 1.Training And Placement Cell (TAP-Cell)
- 2.Entrepreneurship Cell (E-Cell)
- 3.UDAAN – A Flight Towards Change
- 4.I-TECH – Information Technology departmental magazine committee

TAP-Cell provides complete support to facilitate the recruitment process. The E-Cell of Institute plays a vital role in conducting expert lectures by founders and managers of businesses and start-ups, to foster an entrepreneurial spirit among students of the Institute. It also hosts events such as Biz Master, Internship drive, E-Summit etc. The role of UDAAN Committee is to make the students aware about their responsibilities towards society and contribute for its betterment.

Institute has an active Student Council, Sports Committee and Magazine Committee. As per the interest,

the student can step up to take an active leadership role in either of the committee.

**Student Council:** Students Council organizes the annual cultural festival called as 'Zeal' which is a 3-day extravaganza and events like Teacher's Day, Fresher's Party, Garba celebration during Navratri etc.

**Sports Committee:** AVAHAN is an inter-collegiate sports event organized by the Sports committee. Every year AVAHAN introduces different indoor/outdoor sports events. In 2017-18, hosted an inter-collegiate Kabaddi for the first time across Bhayander-Palghar region.

**Magazine Committee:** Magazine committee aims at improving the verbal, literary as well as the soft skills of the students by conducting various events like 'A look into a Book', 'Kavi Sammelan', 'Face-off', 'Patras Karan ki', 'Love letter Writing', 'Creative Story Writing', and 'Marathi Bhasha Diwas'.

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

### 5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

**Response:** 55.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
53	56	56	55	59

File Description	Document
Number of sports and cultural activities / competitions organised per year	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**

**Response:**

VCET Alumni Association was established in the year 2003. It is registered with The Assistant Registrar

of Societies, Thane Region (Registration Number: MAH/2133/2018/Thane). VCET Alumni Association creates and maintains a life-long connection between Institute and its alumni. Alumni meet is organized once in 2/3 years. From the year 2019, Annual Alumni Day shall be celebrated on the third Saturday of December every year.

The objectives of the association are:

- To promote interaction amongst the Alumni members and improve their engagement with the Institute.
- To facilitate education, research and other activities of the Institute with the assistance of the Alumni.
- To enable the alumni to participate in activities that would contribute to the general development of the Institute.
- To enhance, modernize, upgrade the existing facilities in the Institute and also to improve and upgrade quality of education as per requirement of industry and society with the involvement of the alumni.
- To create and update a website of the VCET Alumni Association and upload relevant information pertaining to the affairs of the VCET Alumni Association for the benefit of all the Members, Faculty, Staff and the Students of the Institute.
- To make available industrial trainings, internship programs, projects, employment opportunities and other resources and facilities for career advancement to the Members and the Student community in various companies / organizations / institutions of repute through the Alumni.
- To maintain and continuously update the information of the Alumni and the current students of the Institute for better coordination.

Developing an active and engaged alumni network empowers both the Institute and its graduates. Whether the alumni are interacting with the Institute or Student Committees, attending events or serving as volunteers, their involvement makes a difference to Institute.

Looking ahead, 2019 is a milestone year as VCET will be crossing the 25th year mark. To celebrate this milestone with all VCET Alumni, the Institute shall be hosting the Silver Jubilee Reunion to make the Institute's silver jubilee year 2019 truly memorable!

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

#### 5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

**3 Lakhs - 4 Lakhs**

**1 Lakh - 3 Lakhs**

**Response:** <1 Lakh

<b>File Description</b>	<b>Document</b>
Alumni association audited statements	<a href="#">View Document</a>

#### **5.4.3 Number of Alumni Association / Chapters meetings held during the last five years**

**Response:** 21

##### 5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	8	1	2	8

<b>File Description</b>	<b>Document</b>
Number of Alumni Association / Chapters meetings conducted during the last five years.	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

##### Response:

Vidyavardhini's Society was founded in the year 1970 by the great visionary, Late Padmashree Bhausaheb Vartak for the noble cause of spreading education in rural areas. Vidyavardhini's College of Engineering & Technology (VCET) was then established in 1994. Since its inception, VCET has emerged as a pioneer in the field of technical education and is recognized as one of the best colleges in the University Mumbai.

The Vision of the Institute is:

*To be a premier Institute of technical education, always aiming and becoming a valuable resource for Industry and Society.*

All of us at VCET, strive rigorously with the mission:

- to provide technologically inspiring environment for learning
- to promote creativity, innovation and professional activities
- to inculcate ethical and moral values
- to cater person, professional and societal needs through quality education.

##### Nature of Governance and Leadership

The Governing Council of Vidyavardhini's, endeavors to provide state of the art teaching learning facilities. This is ensured through an excellent governance, rigorously planned activities and student /teacher centric decision-making process. The Governing Council of the Institute is primarily responsible for policy decision related to infrastructure, financial management, human resource planning and recruitment. The budgeting decision were formerly recommended by Local Managing Committee (LMC), presently by the College Development Committee (CDC), and eventually approved by the Governing Council. The Institute has also constituted an Internal Quality Assurance Cell (IQAC) for planning & execution of development activities & promotion of quality culture institution wide.

##### Perspective plans:

Perspective plans focused towards the fulfillment of Vision & Mission of the Institute and based on the SWOC analysis. The key elements of it includes:

- Strengthening the use of ICT facilities to augment the teaching-learning experiences
- Enhancing capacity building of the students through student centric extra and co-curricular activities
- Strengthening Industry Institute Interaction

- Accreditation of the Institute /Individual Department
- Starting Post Graduate Programmes in various disciplines
- Strengthening research activities
- Digitization in regular functioning of the Institute.
- Nurturing experiential and project-based learning

### **Participation of the teachers in the decision-making bodies:**

The Institute has always ensured participation of teachers in various decision-making processes in various capacities. Teachers are an integral part of all the important bodies of the Institute

- The Institute has two staff nominees in the Governing Council
- Three teachers and a non- teaching staff have been elected in College Development Committee (Local Managing Committee) apart from the HOD nominee.
- The Internal Quality Assurance Cell has three members and a coordinator from the teaching faculty.

These bodies are primarily decision making / recommending bodies of the Institute. Meetings and discussion are conducted on a regular basis to ensure the smooth functioning of the Academic, Co-curricular and Extracurricular activities. The Institute also has various statutory committees to ensure effective implementation of various processes.

Leadership is reflected in good and transparent governance, establishing and practicing faculty development policies, welfare policies for teaching and non-teaching faculty, implementation of statutory body guidelines in academics/admissions, state-of-art infrastructure. These features have resulted in NBA accreditation in year 2012.

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

### **6.1.2 The institution practices decentralization and participative management**

#### **Response:**

The Institute encourages decentralized governance to ensure even and systematic distribution of authority at every level of management and that the teaching/non-teaching faculty working at all level have a share in the authority.

The Institution has various committees at college and department level that include teaching/ non-teaching faculty which effectively manage the academic, co-curricular and extracurricular activities and address the issues pertaining to the scope of their committee.

The Principal is given liberty to take financial decisions to a great extent for the prompt execution of the

several academic and non-academic decisions. Provision of petty cash has been made to the Head of the Departments for day-to-day/emergency expenditure.

The teaching/non-teaching faculty are actively involved in Institutions decision making process.

Discussions done, and the opinions arrived at during the various Department / College level committee meetings are conveyed to the Principal and subsequently to the management through the Principal. The management gives due weightage to the view point of the faculty while taking the decisions regarding the college development.

### **Case Study:**

The Institute prepares an annual budget based on the infrastructure/equipment/ furniture requirement obtained from the departments.

### **Purchase of Equipment and Consumable in the Institute:**

The purchase process of equipment and consumables in the Institute is very transparent and decentralized and involves participation from staff to management in decision making process.

#### **Purchase at Department level**

- Staff /lab In-charges submit the requirement of equipment/consumables etc. considering the academic needs.
- These requirements are submitted to the Head of the Department along with specifications.
- Quotation from different vendors are invited after a satisfactory demonstration of equipment.
- The comparative statement of the quotations received from the vendors along with the demo report, technical specification and remark/ recommendation to is submitted to the Administrative office through the Head of the Department.
- In case of Consumables, a comparative statement of the quotations received from the vendors alone is submitted.

#### **Purchase at Institute level**

- The requirement of the furniture/equipment/consumable etc. with specification /recommendations is given to the Registrar by the Head of the Departments and Section incharges.
- The requirement regarding IT infrastructure/ computers is compiled and directed to the Computer Engineering / Information Technology Department for the purchase procedure.
- For the rest of the items, the Registrar compiles the requirements and finalize the specifications in consultation with Head of the Departments and Section Heads.
- Quotation for the item are invited from different vendors for the same.
- The comparative statement (BID) based on cost, specification etc. of the quotations received from the vendors is prepared by the Registrar.

Further steps for purchase at both Department and Institute level are:

- A meeting of Purchase Committee and vendors is then called upon to commercially negotiate and finalize terms and conditions.
- The final purchase orders are prepared after an approval from the Purchase Committee.
- The equipment delivered to the Institute is thoroughly checked and tested before disbursement of payment.

The final payment is made to vendor after an endorsement made by the concerned authority.

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

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

#### Response:

The core objective of the Placement And Training (PAT) cell is to ensure higher placement for students, train them to increase their employability and assist them to achieve their goals.

The PAT cell has continually progressed in its results, since its inception. However, in the year 2013-14 the number of placements offers in the Institute reduced considerably as a consequence of recession and change in the placement scenario. There were in all 110 offers during this phase with just 44 offers grabbed during the day one session.

This sudden dip in placements led to introspection and examination of the cause. After several brainstorming discussions, it was identified that aptitude and practical knowledge of the students need to be strengthened to revert the situation. Hence, the PAT Cell reformed its policies to address these issues.

To ensure an extensive aptitude training to the students, it was decided to take the support of an external professional training agency. Demo sessions of various training academies were organized in the college to judge the quality of coaching offered by them. Based on the feedback of the students, IMS Institute was chosen as a collaborator for trainings the students. IMS Institute provided training for two consecutive academic years 2014-15 and 2015-16. A drastic improvement was observed as a result of the aptitude training. The number of placements improved up to 252 during academic year 2014-15. Similar practice continued in academic year 2015-16, where the number of placements reached a figure of 268.

However, it was observed that majority of placement was in IT sector. Hence, PAT cell decided to expand its focus on students placement in the core companies. As a measure towards this, students were motivated to take internships in core industries of their respective streams. Total 50 students successfully completed internship in various companies as a result of which the interaction with them improved. The positive impact of this were observed in the number of placements. During academic year 2016-17, placement drives of 44 companies were held and total placements attained were 232.

Based on response received from students, the PAT cell took initiative to provide campus recruitment at a



subsidized rate so that maximum number of students can avail its benefits. Demo session of best training academies were once again conducted, and Campus Credential was selected as training agency. The Management of the Institute supported the students training by partially reimbursing their fees upon the successful completion.

Encouraging improvement in placement were observed in this phase. During 2017-18. Total 176 students completed internship at various companies. Placement drive of 54 companies are arranged and 245 offers has been received till date. Placement activities for 2017-18 are still in continuance.

### PAT Activity Records

Academic Year	No. of Offers	Internship	Offers on Day 1 session	No. of Companies
2014-15	252	27	55	30
2015-16	268	33	60	33
2016-17	232	50	85	44
2017-18	245*	176	86	54

File Description	Document
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

#### Response:

Vidyavardhini's College of Engineering and Technology has a well-established organizational structure to execute the smooth functioning of administrative and academic processes. The Vidyavardhini Trust stands as an asset to the system and the stakeholder. The Governing Council is the highest decision-making body, constituting members of the Management, Principal and nominated faculty members. The Principal receives inputs from College Development Committee (formerly Local Managing Committee) and Internal Quality Assessment Cell. The administrative set-up includes Principal and various planes for the smooth functioning of the Institute, which are enlisted below.

**Academic Plane:** It takes care of all matters relating to teaching-learning process. It comprises of Department Committee in-charge, Department Activity in-charge, Lab in-charge, Proctor and Supporting staff reporting to the Head of the Department and Dean.

**Administration Plane:** It comprises of Statutory committees (OBC, ICC, ARC, SC/ST, MC, GRC, WDC), Library and Registrar, taking care of administration and exam activities in the Institute.

**Activity Plane:** It takes care of student activities, both Co-curricular and Extra curricular activities with the help of various student associations and chapters.

Co-curricular activities are conducted by student chapters of ISA, IEEE, IETE, CSI, ISHRAE, VMEA, CESA, ETA, ITECH. The extra-curricular activities are managed by Student Council, Sports Committee and Magazine Committee. The UDAAN Committee handles various extension and outreach activities.

**Placement/Development Plane:** It takes care of Training and Placement activities in the Institute through TAP and E-Cell. The Research and Development activities in the Institute are carried out by IPR Cell and Swayam-NPTEL Committee.

**Alumni:** The Institute also has an Alumni Association which is registered with The Assistant Registrar of Societies, Thane Region (Registration Number: MAH/2133/2018/Thane). This association is in the process of registering with Joint-Registrar, Thane.

The Institute is affiliated to University of Mumbai, recognized by DTE Government of Maharashtra and approved by AICTE. The Institute follows service rules, procedures, recruitment and promotional policies designed and recognized by statutory bodies.

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

### 6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

**Response:** C. Any 3 of the above

File Description	Document
Screen shots of user interfaces	<a href="#">View Document</a>
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

##### Response:

Vidyavardhini's College of Engineering and Technology is having various bodies, cells and committees for overall development of students. These committees are intended to guide, motivate and solve problems of the students and faculty members. The list of various committees are mentioned in the table below.

Governing	Statutory	Student Bodies		Training and Placement
		Extra-Curricular	Co-curricular	
Governing Council	IQAC (Internal Quality Assessment Cell)	Students Council	IEEE (Institute of Electrical and Electronics Engineers)	PAT (Placement and Training) Cell
Local Managing Committee /SC/ST College Development Committee	Committee for Sports	Sports Committee	ISA (International Society of Automation)	E-Cell
	Minority Cell	Magazine Committee	ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers)	IPR (Intellectual Property Rights) Cell
	Grievance Redressal Committee	UDAAN	CSI (Computer Society of India)	
	Internal Complaint Committee	Digital Committee	IETE (Institution of Electronics and Telecommunication Engineers)	
	Anti-Ragging Committee		CESA (Civil Engineering Student Association)	
	OBC (Other Backward Castes) Cell		VMEA (Vidyavardhini's Mechanical Engineers Association)	

	WDC (Women Development Cell)		ETA (Electronics and Telecommunication Association)	
			I-TECH (Information Technology Departmental magazine committee)	

***Case Study of VMEA (Vidyavardhini's Mechanical Engineers Association), Mechanical Engineering Department contributing for development of ETHAN Racing Car.***

“Team ETHAN” comprises of students who seek to enhance the learning experience by implementation of engineering fundamentals within the context of building VCET’s own Formula-Style Car. “ETHAN” is a Hebrew word, meaning strong, firm, constancy, steadfast and safe.

Starting as a student project in 2013, weighing 300 kg and powered by a 350 cc Royal Enfield engine, Team ETHAN first participated in SAE Supra 2013 and secured 58th position overall. The current car weighing 210 kg and powered by 373 cc engine derived from KTM 390, participated in Formula Bharat 2018 and secured 22nd overall rank. The Team has now spread its wings to interdisciplinary students. The student groups from Electronics and Telecommunication Engineering and Instrumentation Engineering departments working on various electrical and control related aspects.

Year	Event Participated	Overall Rank	Specifications	C
2017-18	Formula Bharat 2018 (Car No 25)	22nd	Engine: 373 cc KTM Duke 390 Kerb Weight : 210 kg	
2016-17	Formula Bharat 2017 (Car No 46)	35th	Engine: 373 cc KTM Duke 390 Kerb Weight : 287 kg	
2015-16	Formula Student India 2016	36th	Engine: 373 cc KTM Duke 390 Kerb Weight : 310 kg	
2014-15	SAE Supra 2014	58th	Engine: 350 cc Royal Enfield Kerb Weight : 300 kg	

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

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

#### Response:

The Institute is keen in well being and development of its teaching and non-teaching staff. There are facilities created, services offered, and amenities provided to improve their health, efficiency, economic betterment and social status.

Some of the noted measures taken in this direction are:

1. **Gratuity:** Every employee is offered Gratuity as per the Government norms upon their retirement or on leaving the job, as a gratitude for the services offered by them to the Institute.
2. **Employees' Provident Fund:** is deposited timely along with the contribution from Institute.
3. **Group Insurance:** Group Insurance facility is provided for the non-teaching staff. This ensures life-insurance benefits upon the death of the staff before retirement.
4. **Maternity leave:** 180 days maternity leave is provided to women employee after completing probation.
5. **Study leave for MTech/PhD:** Faculty members are encouraged to pursue higher studies by providing them study leave and financial assistance.
6. **Support for knowledge upgradation:** Teaching and Non-teaching faculties are offered financial support and On Duty leave for attending knowledge upgradation programmes like Conferences, Seminars, Workshops, STTPs, Industrial visits etc.
7. **Support for organizing Seminars/Workshops/STTP:** The Institute encourages the organization of Conferences/Seminars/ Workshops/ STTPs etc. by giving adequate financial backing.
8. **Special Medical Leave:** Special Medical Leave is offered to Teaching and Non-teaching faculties suffering from critical illness.
9. **Staff Get-together:** The Institute provides funds for the staff Get-together organized every year during the Annual Cultural Festival- Zeal and similar events.
10. **Funding for Women Cultural Activities:** The Institute makes financial provision for the Cultural Activities such as Womens' Day Celebration, Haldi-Kunku etc. initiated by the Womens' Development Cell
11. **Counselling facility:** Counselling facility is made available to the teaching and non-teaching staff in the Institute, to cope-up with their emotional/stress issues.
12. **Doctor on call:** Doctor is available as and when required on a phone call for all staff members and students. A bed has been reserved in a reputed hospital to address emergency medical need.
13. **Book Allowance:** Staff members are given partial financial support for procurement of books.
14. **Uniform for class IV employees:** Uniforms are provided to all class IV employees. Washing allowance is also provided for the maintenance of the same.

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

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

**Response:** 18.92

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

2017-18	2016-17	2015-16	2014-15	2013-14
44	20	24	5	3

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 1.4

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	2	0	1

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

**Response:** 25.75

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
43	26	38	12	11

File Description	Document
Details of teachers attending professional development programs during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

**Response:**

An effective performance appraisal has a significant impact on an organization's culture, staff morale and employee engagement levels – all of which enhance the brand of the institution. Performance appraisal also helps to gauge the strengths and the weaknesses of the individuals. It also sets the benchmarks to be achieved and performance expected in different areas.

To ensure an effective performance appraisal, the Institute demands the teaching and non-teaching staff to fill up an appraisal form at the end of every academic year. The key parameters of the same are listed below:

#### The parameter for performance appraisal of teaching staff:

- Result analysis and student's feedback for the subject taught
- Step taken to enhance teaching –learning process
- Conferences / Courses / Training programmes / Seminars/ Workshops attended
- Courses / Training programmes / Seminars/ Workshops conducted
- Publications: National/International Journals/Conferences, Book/Book Chapters in Monograph
- Industry/ Research projects undertaken
- Academic upgradation through higher studies
- Contribution in the departmental and college activities
- Participation in co-curricular/extracurricular activities
- Any other information that the faculty would like to furnish as a part of appraisal



**The parameters for performance appraisal of non- teaching staff:**

- Proficiency in work
- General intelligence, industry and keenness to learn
- Engagement in any other work than routine
- Amenability to discipline
- Punctuality in attendance
- Relation with General public, Collogues and Students
- Integrity

The performance appraisal form for the non-teaching staff is also made available in local language -Marathi.

The duly filled forms are assessed by the Head of the Department or Registrar (in case of administrative staff). Remarks, Constructive comments are made upon it and suggestion of the improvement or filling up the lacuna are stated. The forms are eventually forwarded to the Principal to decide upon the further course of action.

File Description	Document
Any additional information	<a href="#">View Document</a>

**6.4 Financial Management and Resource Mobilization****6.4.1 Institution conducts internal and external financial audits regularly****Response:**

Vidyavardhini Trust has maintained a very transparent financial mechanism for all its institutions and has formulated a Finance Manual in June 2005. The Financial Manual elaborately describes the guidelines for the process of budget, expenditures, financial powers of the Principal, Head of the Department and Head of the Functionaries.

The Trust has an effective mechanism of internal and external audit. These audits verify and certify all nature of income and expenditures along with all capital expenditure and deposits of the Institute in each financial year.

Internal audit is a continuous process. A qualified Internal auditor from an external agency have been permanently appointed by the society who regularly examines all the records maintained by the accounts department.

An external auditor appointed by the society to execute the statutory audit. This audit is conducted in two phases, one in the month of December/January and the in month of May/June every year. Finalization of accounts is completed in June/July and audited statement is prepared and duly signed by



Principal/Secretary and Chartered Accountant. The Chartered Accountant submits the Audit Report after completing the audit of all the Institutes and Trust.

The Audit Report did not had any major objections. The minor audit suggestions (if any) pointed by auditor are duly complied. These audited statements are then presented for approval in College Development Committee (formerly Local Managing Committee) followed by Governing Council.

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

#### 6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

**Response:** 14.29

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
3.8565	2.59501	2.3816	2.989	2.47

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

**Response:**

Vidyavardhini's College of Engineering and Technology is a self-financed institution, where the funds are generated through the fees paid by the students. The fee is approved by the Fee Regulating Authority constituted by Government of Maharashtra. The Governing Council of the Institute in assistance with the Principal, constantly monitors the effective mobilization of funds and the optimal utilization of resources to progress in achieving the Vision and Mission of the Institute.

The Vidyavardhini Trust has formulated a Finance Manual which elaborates the processes of all the financial transactions. All the Head of the Departments and all Functional Heads submit their budget requirements to the Principal along with a justification. Accordingly, the Accounts department summarizes the requirements and the Institute Budget is prepared before the commencement of every financial year.

The Budget is consolidated by the Principal, Head of the Departments, Registrar and Accountant after giving due weightage to the Institute's strategic plan. The Budget is then presented before the College Development Committee (formerly Local Managing Committee) and Governing Council which approves the Budget with the necessary amendments.

In case of change in the norms by the Regulatory authorities, the allotted funds are amended to comply the revised conditions, with the permission of the Chairman/President.

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

## 6.5 Internal Quality Assurance System

### 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

#### Response:

The Internal Quality Assurance Cell (IQAC) at Vidyavardhini's College of Engineering & Technology was formed on 10th July, 2017 as a primary step for preparation for NAAC accreditation. Since then IQAC has been a central agency in the institution for assimilation of data, planning & execution of several development activities & promotion of quality culture institution wide.

The formation of IQAC was done under the chairmanship of Dr. Ashok Bhonsale, the former Principal of the institution. The committee was revised on 16th July, 2018 upon the appointment of Dr. Harish V. Vankudre as the new Principal. The present structure of IQAC is as follows:

Chairman	Dr. H. V. Vankudre, Head of the Ins
Teachers representatives	Dr. Vikas Gupta Dr. Uday Aswalekar Dr. Swapna Borde
Member from the Management	Shri. Vikas Vartak
Senior administrative officer	Mr. Vishal Save
Student Member	Ms. Najiba Halim
Alumni representative	Mr. Swapnil Karvir
Nominee Employers / Industrialists / Stakeholders	Shri. Madhukar N. Mohol Shri. Hasmukh bhai Shah
Co-ordinator	Dr. Megha Trivedi

The two key contributions by the IQAC for Institutionalizing the quality assurance strategies and process are:

### **1. Initiating the process of Academic Audit by experts from other institutions:**

In order to continually improve quality processes in teaching and learning and thus enhance student success, there is a need of a faculty-driven model of ongoing self-reflection, collaboration, team-work and peer feedback. One of the means of doing this is the Academic Audit. The Institute had initiated the practice of inter-department Academic Audit from Academic year 2016-17. However, IQAC felt the acute need of getting this process reviewed by peers from other institution of good academic standards. Thus, from the academic year 2017-18 the Academic Audit was revised from internal to external.

This led to the contribution of valuable suggestions by the academic experts for boosting the quality of teaching – learning process in the Institute.

### **2. Establishment of a Remote centre for conduction of interaction sessions for online courses:**

Teachers need to constantly upgrade themselves to learn about advances in their domain, and to understand the best practices for facilitating best possible learning. One such medium are the AICTE approved Faculty Development Programs provided by IIT Bombay, under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching. It is also a platform for students to improve upon their skills and employability. To avail the benefit of this scheme for teachers and students, a Remote Center (RC) has been active in the institution since 15th January, 2018.

A RC is a place from where the participants/people can interact with the instructor (faculty at IIT) who is conducting the course or delivering a lecture from IIT Bombay, through the transmitted live lectures. In a short span of time, the remote centre of The Institution has supported more than 10 courses and benefited about 171 faculty members/students.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### **6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms**

##### **Response:**

In order to ensure the success of an educational institution it is utmost important to review teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and bring about necessary reforms in it. Two major initiatives taken by the IQAC in this direction are

summarized as follows:

### 1. Institution wide uniform format for Course Booklet and Project Handbook:

- The teacher's diary or the Course Booklet (as called at VCET) is a mirror to the planning and execution of a course. Although the effective system of maintaining the same prevailed in the Institute, IQAC felt the need for having an institution wide uniform structure for it. It therefore came up with an extensive format for the Course Booklet through brainstorming amongst the senior and experienced faculty members, which is implemented since Academic year 2018-19. This booklet at a glance gives the information of planning, execution and success of a course.
- The final year project in the Engineering curriculum is an aggregation of the knowledge gained during the course duration. It also addresses almost all the graduate attributes that needs to be developed in a graduating engineer. It is very necessary that the projects ideas are chosen to address the societal/industrial issues. Successful execution of a project needs planning, execution and a continuous review/feedback. To ensure all these parameters, the final year students in the Institute maintain a Project Handbook. The task of standardizing the format of the Project Handbook was stimulated by the IQAC which has adopted institution wide since the academic year 2018-19. The Handbook would also serve as tool in evaluating a project and determining its success.

### 2. Promotion of use of Internet and Communication Tools (ICT):

In order to swing the teaching methodology from being teacher-centric to learner-centric, it is important to adopt the modern technology and tools in regular content delivery. The Institute has from time to time reframed the infrastructure to support the need. To boost the contribution of teachers in this direction, IQAC has taken steps to promote the use of ICT tools for teaching, e-content development. To enhance the knowledge of the faculty members in this area, they were encouraged to take up a Foundation Program in ICT for Education thorough the Remote Center of the Institution. It showed enthusiastic participation from 71 in-house faculty. The Management has supported the activity with an assurance to reimburse the enrollment fees upon successful completion of the course by the faculty members.

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

#### 6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

**Response: 7**

##### 6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
12	5	8	7	3

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
IQAC link	<a href="#">View Document</a>

#### 6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

**Response:** C. Any 2 of the above

File Description	Document
e-copies of the accreditations and certifications	<a href="#">View Document</a>
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

##### **Response:**

The Institute takes efforts to bring about continual improvement in all the processes in academic and administrative front. Some of the enhancement initiatives taken post NBA accreditation are summarized as follows:

##### **Academic**

- **Faculty Qualification Enhancement:** Nine faculty members of the Institute have successfully completed their PhD's and 6 are pursuing their PhD under sponsorship/support schemes.
- **University Status:** The Institute is granted permanent affiliation to the University of Mumbai for four branches since 2014-15.
- **Teaching-Learning Infrastructure:** Faculty are provided with individual Laptops. There are 3 seminar halls with ICT facility of which one has a Digital Podium.
- **IT Infrastructure:** The Computer Center has been renovated and expanded. The Institute has 48Mbps internet bandwidth.
- **Teaching-Learning:** The Institute has developed an online feedback system to take feedback on course execution since 2015-16.
- **Evaluation Reforms:** The Institute has revised the evaluation schemes timely with change in curriculum pattern.
- **Experiential Learning:** The Institute hosts 'Vidyavardhini's National Project Showcase' and 'Product Showcase'.
- **Professional Activities:** Initiated and provided financial support for product design /development activities and participation in competitions.
- **Placement and training:** The Institute has appointed a placement training agency to impart aptitude/soft skill training.
- **Capacity Building:** The Institute has a language laboratory with 25 Licenses of Orell digital software
- **Students Counselling:** The Institute has appointed a professional Counselor to address psychological/stress related issues of students/staff.
- **Entrepreneurship:** As a step towards development of incubation center and entrepreneurship skills amongst students, the Institute has formed the Entrepreneurship Cell.
- **Industry Institute Interaction:** The Institute has 25 MoU with prestigious companies.
- **Location Advantage:** The Institute serves as center for conduction of online exams.
- **Alumni Engagement and Interaction:** Alumni meets are organized on regular basis.
- **Center of Excellence:** Center of Excellence have been established/ initiated in various departments.
- **Establishment of IIB Remote Center:** The Institute has established an IIT Bombay Remote Center for conduction of online courses.

## Administrative

- **Infrastructure:** The Instrumentation Department has been relocated and renovated.
- **E-Governance:** The Institute uses indigenously developed software 'Inward Outward System'
- **Extra-Curricular Activities:** The Institute has progressed from intra- to inter-collegiate 10 days annual sports saga 'AAVAHAN'.
- **Facility:** The Institute has well-furnished Common Rooms for boys and girls. A vending machine for sanitary napkins is available in the girls' common room.
- **Extension and Outreach Activities:** To increase the extension/outreach activities, the Institute has formed the UDAAN Committee.
- **Green Initiative:** Institute has installed a 50KW Grid connected PV Solar rooftop system and rainwater harvesting system. The Energy and Green audit are also done.
- **Organization Structure:** The Organization Structure has been reframed to promote decentralization and participative administration.

Some of the contributions by IQAC in incremental improvements since its inception are:

- Initiated the External Academic Audit
- Establishment of IIT Bombay Remote center and conduction of online courses
- Institutionalization of format for Course Booklet and Project Handbook
- Promoted the use of ICT
- Fostered student participation in Internship programmes
- Initiated MoUs with 14 companies
- Supported participation/conduction of trainings/workshops
- Facilitated Inter-college sports event AVAHAN

File Description	Document
Any additional information	<a href="#">View Document</a>



## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

**Response:** 6

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	1	1	1

#### File Description

#### Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

#### 7.1.2

##### 1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

**Response:**

Gender Sensitivity in providing facilities is an approach towards male and female students.

##### A) Safety and Security

Safety and security are of prime importance for students and all the people working in the Institute. A professional security service is provided 24X7 on campus. The entire campus is under the surveillance of CCTV cameras. At least one female staff accompanies the girl students for all the events beyond regular working hours of college and for industrial visits, field trips etc. The Women Development Cell (WDC) exists in the Institute since 2003, which is specifically meant to cater to the issues raised by female staff /students. The WDC is also engaged in organizing various awareness programmes like seminar/workshops on topics such as "Implementation of Sexual Harassment at Work Place Act 2013", "Self Defense through Martial Arts", etc. The Institute has formed Internal Complaint Committee (ICC) in the year 2015-16 to register and address the complaints raised inside the Institutes.

##### B) Counseling



In today's fast-paced and competitive life, students as well as faculty face several issues at personal, social, academics, career planning forefront. Considering this as biggest challenge, the Institute has been providing counseling support to all through a professional counselor since past seven years. A special session is conducted by the counselor during the orientation program for first year students, to make them aware of counseling facility.

The Institute has proctor system through which the teachers have personal interaction with the student. Each proctor has been allotted a batch of 15-20 students for mentoring. Proctors look over the student's progress on a regular basis till their graduation.

### C) Common Room

The Institute has well-furnished exclusive Common Rooms for boys and girls. These rooms are equipped with essential infrastructure like sofa, beds for resting, study tables and chairs etc. Ladies Common Room is located at a readily accessible place so that female staff members can attend the girls in case of any emergency. A vending machine for sanitary napkins is also available in the girls' common room. This facility has proven to be beneficial for both, students and staff members.

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 7.1.3 Alternate Energy initiatives such as:

##### 1. Percentage of annual power requirement of the Institution met by the renewable energy sources

**Response:** 28.55

##### 7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 69200.4

##### 7.1.3.2 Total annual power requirement (in KWH)

Response: 242424

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

#### 7.1.4 Percentage of annual lighting power requirements met through LED bulbs

**Response:** 20.84

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 87.008

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 417.6

File Description	Document
Details of lighting power requirements met through LED bulbs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

**Response:**

#### **Solid waste management:**

The Institute strongly promotes the principles of 3 R's i.e. Reduce, Reuse and Recycle and takes all possible initiative to inculcate the same among students and staff to minimize waste generation.

Being an Educational Institute, hazardous waste or e-waste is not significantly generated. Adequate measures are in place to manage the solid waste. Bio-degradable wastes from the college canteen, dead leaves from the trees and reasonably large amount of other solid waste is generated in the college is managed thoughtfully. The green waste is collected centrally in the pit and used up in the composting of the campus. The output of this is used as manure for the plants in the gardens. Paper waste including shredded answer sheets are sold to licensed purchaser.

#### **Liquid waste management**

Being a Technical Institute, hazardous waste from chemicals and acids are minimal in the Chemistry laboratory. However, utmost care is ensured to dilute the concentrated solutions before their disposal. Appropriate measures are taken to dispose the toxic wastes.

#### **E-waste management**

E-waste such as computers, printers, CPUs, UPS batteries, electrical and electronic assemblies, cathode ray tubes, PCBs, resistors, capacitors etc. collected from various departments are sorted and are either disposed in safe manner through the authorized vendor or exchanged during the new purchase. Almost all

equipments are used to its fullest, by permitting usage of its parts in other suitable equipment or in student's projects.

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

### 7.1.6 Rain water harvesting structures and utilization in the campus

#### Response:

The Institute aims to use natural resources such as sunlight, rain water to its best. The total drinking water requirement of the college is fulfilled by the Vasai Virar Municipal Corporation water supply scheme. Other water requirement is met through the harvested rainwater. The Institute has invested Rs.1.1 Lacs for installing the rainwater harvesting system.

#### Rain water harvesting structure:

Rainwater from terrace area is collected using PVC pipes and diverted to the existing boring water tanks through advanced filters and recharge tanks. The pipes from terrace outlet are connected to an underground tank which stores water; this serves the purpose of recharging wells and bore wells. There are two different collection chambers. First collection chamber has a diameter 1.65 meter (Approx.) and 3.5 meter (Approx.) and second collection chamber is of diameter 0.95 meter (Approx.) and 3.5 meter (Approx.). During the collection of water to these chambers, 3 filter beds each measuring 0.8m × 1.8m × 2m (Approx.) are provided for the filtration of harvested water. Water collected from these two chambers is pumped to the overhead tank using a solar pump.

#### Utilization:

The harvested rainwater is used for water closet, gardening, washing and cleaning floors throughout the year.

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

### 7.1.7 Green Practices

- **Students, staff using**
  - a) **Bicycles**
  - b) **Public Transport**
  - c) **Pedestrian friendly roads**

- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

**Response:****Bicycles and Public Transport:**

The Institute is located at a short walking distance from Vasai Road Railway Station. Since most of the students and staff members of the Institute reside in Western suburban area of greater Mumbai, they frequently use the Western Railway local suburban trains as a mode of transport. On an average 50% of students make use of this public transport facility. The Vasai Virar Municipal Corporation has a good network of local busses whose benefits is availed by many of the staff and students dwelling in the village areas of Vasai.

**Plastic-free campus:**

The Institute has taken initiatives to spread the concept of 'Green Living' in the campus. Posters creating awareness about refraining the use of plastic are displayed at several places. The use of plastic/thermocool plates/ glasses etc. is prohibited in the college canteen.

**Paperless Office:**

Availing the benefit of technological advancement, the Institute has taken measures to build an eco-friendly environment, where the use of paper is either minimal or absent. Faculties and students are prompted to use of electronic communication such as e-mail for the exchange of information. Institutes notices and other relevant information are regularly uploaded on the college website or disseminated through online tools, thereby curtailing the use of paper.

**Green Landscaping with trees and plant:**

The Institute is blessed with a green campus by nature. Each block of the building and playground are surrounded by green lawn & trees. There are beautiful landscapes created to beautify the campus. In addition to this, the Institute ensures and strictly adheres to the plantation activity regularly.

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

**7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary**

**component during the last five years****Response:** 1.98

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
30.29861	0.69000	2.74000	2.36352	1.15000

File Description	Document
Green audit report	<a href="#">View Document</a>
Details of expenditure on green initiatives and waste management during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:**

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

**A. 7 and more of the above****B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
link to photos and videos of facilities for Divyangjan	<a href="#">View Document</a>

#### 7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

**Response: 1**

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	01	0

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

**Response: 2**

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	02	0	0

File Description	Document
Report of the event	<a href="#">View Document</a>

<b>7.1.12</b>	
<b>Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<a href="#">View Document</a>

  

<b>7.1.13 Display of core values in the institution and on its website</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Provide URL of website that displays core values	<a href="#">View Document</a>

  

<b>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>

  

<b>7.1.15 The institution offers a course on Human Values and professional ethics</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

  

<b>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Provide URL of supporting documents to prove institution functions as per professional code	<a href="#">View Document</a>



**7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**

**Response:** 15

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	2	2	1

File Description	Document
List of activities conducted for promotion of universal values	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities**

**Response:**

The Institute enthusiastically celebrates national festivals and birth/death anniversaries of great Indian leaders. Some of the key events celebrated in the Institute are:

**Independence and Republic day: Independence Day and Republic Day of India** are celebrated in the Institute with a great enthusiasm. Staff members and students participate in large numbers in the flag hoisting ceremony held in the Vidyavardhini Campus.

**Mahatma Gandhi Jayanti / Lal Bahadur Shastri Jayanti / Swachh Bharat Abhiyan:** The Institute pays homage to Rastarpita Mahatma Gandhi and Lal Bahadur Shastri on 2nd October by celebrating their birth anniversary. The Institute supports the 'Swachh Bharat Abhiyan' the cleanliness campaign initiated by the Government of India. A cleanliness drive is carried out in the Institute by all staff and students on 2nd October every year.

**Teacher's Day:** The Institute celebrates Teacher's Day on 5th September every year to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan and to pay a tribute to the contribution made by the teachers towards the society.

**Engineer's Day:** 15th September, the Engineer's Day is celebrated every year in the Institute as a mark of



remembrance of the greatest Indian engineer Bharat Ratna Sir Mokshagundam Visvesvaraya. Technical events/seminars etc. are organized to cherish this day.

**International Yoga Day:** The Institute proudly celebrates international yoga day which is observed on 21st June every year. Instructors from yoga organization such as Shri Ambika Yoga Kutir are invited to conduct the sessions on pranayama and yoga on this day.

**Marathi Bhasha Divas:** Marathi Language Day is celebrated in the Institute on February 27th which is the Birth anniversary of eminent Marathi Poet Mr. V. V. Shirwadkar. Students and Staff members present poems, songs, plays etc. as a part of the celebration.

**Birth/Death anniversary of Padmashri H. G. Vartak alias Bhausaheb Vartak:** Padmashri H. G. Vartak alias Bhausaheb Vartak founded Vidyavardhini Society in 1970 for the noble cause of spreading education in the rural areas near Vasai-Virar. His birth/death anniversary is celebrated every year in the Institute to pay respect to this great visionary. A three-day event was hosted in the Institute in the year 2014 to mark his birth centenary.

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

##### Response:

Vidyavardhini's College of Engineering & Technology maintains complete transparency in its financial, academic, administrative and auxiliary functions.

##### Financial Transparency:

The Institute abides by the regulations set in its Financial Manual for all its transactions. All the transactions in the Institute are cash-less. Budget of every department is submitted and approved by the management through a well-defined process. The Institute maintains transparency in purchase by comparing quotations received from different vendors and giving each one an opportunity to negotiate. A purchase meeting is held with vendors for negotiation on the quote and finalize the purchase order. Internal financial audit is an ongoing process in the Institute. Apart from this, an external auditor is appointed to execute the statutory audit twice in a year. Audited statement of accounts is submitted and approved College Development Committee meeting.

##### Academic Transparency:

Transparency in evaluation process:

- The students are made aware of assessment/examination scheme, weightage of Continuous Assessment for the practical/tutorials/assignments and End Semester Examination for a course at

the beginning of every semester, by the respective faculty.

- The evaluated answer sheets of the internal tests, grading of the assignments and projects are shared with the students and a feedback is given for further improvement of the student's performance. The Internal test marks are also displayed on the notice boards.

### **Administrative Transparency:**

As per the guidelines set by the University of Mumbai and Director of Technical Education- Govt. of Maharashtra, the College Development Committee monitors the academic administration of the Institute. Regular meetings of the committee are held for ensuring the effective execution of the academic processes.

Transparency in Admission process is evident through the following practices followed in the Institute:

- Admission Process is executed by Director of Technical Education- Govt. of Maharashtra as per the guidelines of Admission Regulating Authority.
- Institute level admissions are carried out inter-se merit.
- Fee structure is finalized by the Shikshan Shulk Samiti/Fee Regulating Authority.
- Cancellation and refund policies are strictly followed as per Admission Regulating Authority norms.

### **Auxiliary:**

Offline tenders are invited for services such as security, canteen, gardening, housekeeping etc. and annual contract are issued to the selected agency. The formulation of all the students committees is done by inviting the application and conducting an interview.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>

## **7.2 Best Practices**

### **7.2.1 Describe at least two institutional best practices (as per NAAC Format)**

**Response:**

### **Best Practice I**

#### **1. Title of the Practice**

**Social Upliftment through Community Services.**

## 2. Objectives:

- To help the needy and underprivileged in society.
- To keep the Institute neat and clean by supporting the Swachh Bharat Abhiyan.
- To spread the importance of education in the society.
- To raise voice against injustice done to the girl child.
- To spread awareness about healthy life style and diet.
- To donate blood for a noble cause.

## 3. The Context

Contextual features and challenges faced

- The Institute is situated in a tribal region of Palghar district where most people live below the poverty line. This has been the motivation to donation camps which cater to the basic needs of poor such as clothes, food, etc.
- Innovative minds need clean and healthy surroundings to dwell. This belief has led to the acceptance of a nation-wide campaign “Swachh Bharat Abhiyan” at the campus.
- Literacy rate is quite low in the tribal region of Palghar district where this Institute is situated and that is the reason which has stimulated the campaign of teaching the basics of reading and writing to the poor tribal villagers. One of the hurdles to this campaign is the mindset of people towards education.
- The unhealthy eating habits cultivated in the society lead to various health issues. This concern has motivated to conduct health awareness programmes.

## 4. The Practice

The Institute follows a unique practice of paying gratitude and fulfilling the responsibilities towards the society through a committee called **UDAAN** whose motto is “**Flight towards Change for Social Cause.**” Apart from technical growth, one of the important program outcomes of any technical education is ‘to inculcate rich ethical values and basic social awareness’ which is very well targeted through the activities of the UDAAN team. The UDAAN committee came into existence from the academic year 2014-15 and is growing its span of social work since its inception. The events and campaigns organized by the committee include:

- **Celebration of Independence Day:** The UDAAN committee started its journey by organizing a small event for celebrating “The Independence Day” to gratify the unsung heroes of the nation for their supreme sacrifices and bravery.
- **Teachers Day:** Teacher’s Day is celebrated in a unique way by reaching out to the children from rural area in the remote village of Vasai. The committee visited Saraswati School, situated in the “Parol” village of Palghar district to guide the students about education, its benefits and career opportunities.
- **Donation Camp:** “Be A Young Santa This Winter” is a donation camp was executed to mark the real happiness of giving on the onset of Christmas. The committee organizes a drive to donate

blankets to the needy and poor people staying on the roads.

- **Orphanage Visit:** Helping the under privileged is most noble service to the society. The UDAAN committee visited a girl's orphanage in Vasai and donated clothes, food items and gifts.
- **Mega Donation Camp:** The Mega Donation Camp is organized to donate clothes, cereals, toys, stationary items, sanitary pads, books and many miscellaneous yet useful items to help the needy and economically weaker sections of the society. This helps in spreading happiness through the act of giving.
- **Cleanliness Drive:** Swachh Bharat Abhiyan is a nationwide campaign initiated by the Government of India to keep our surroundings neat and clean. In support to this, the UDAAN committee and the Student's Council organizes a cleanliness drive in the campus.
- **Blood Donation Camp:** Donating blood is the noblest service given to the mankind. The UDAAN committee organizes "Blood Donation Camp" to help patients in need. The students and staff both volunteer every year in large numbers to donate blood.
- **Healthy Life-Style Awareness:** The volunteers of UDAAN committee members design and display various posters depicting healthy eating habits and nutritional value of various fruits and vegetables in ones' diet. A Health Awareness event is also organized to encourages a healthy lifestyle in engineering students.
- **'Respect Her':** The UDAAN committee organized a campaign called 'Respect Her' to spread the message in the society to Value and Respect Women. To intensify the message, street plays are performed by the volunteers of the committee.

## 5. Evidences of Success

- Following items (approximately) were donated through the "Mega Donation Camp"

Sr. No	Items	Approximate Quantity
1	Rice	200Kg
2	Sugar	200Kg
3	Wheat	100Kg
4	Shirts	3000
5	Pants	3000
6	Note books	2000
7	Pens	2000
8	Blankets	1000
9	Toys	500
10	Stationary items	200 packets

- Blood bottles collected through he Blood Donation Camp for government recognized blood banks are tabulated below:

Sr. No	Academic year	Number of blood bottles collected
1	2014-15	197
2	2015-16	142
3	2016-17	170
4	2017-18	242

- The teaching campaign carried out in the rural areas has benefitted nearly 600 children.

## **6. Problems encountered, and resources required**

- Time is a major constraint for any technical institute. Students have to adhere to the busy academic schedule and make out additional time for this noble cause.
- Committee has to convince the parents from rural areas to allow their kids to participate in teaching campaign.
- College authorities and parents have to be kept well informed especially when the activities are executed on holidays.

## **Best Practice II**

### **1. Title of the Practice**

**Vidyavardhini's National Project Showcase (VNPS)**

### **2. Objectives**

- To provide a platform for the students to interact with the Industry experts and obtain their feedback
- To build a healthy competitive environment
- To be in pace with the latest trends in technology
- To upgrade presentation skills of the students.

### **3. The Context**

Contextual features and challenges faced

- The difference in engineering curriculum and industrial technical standards has stimulated to organize the project showcase as measure to bridge the industry-curriculum gap.
- The completion is organized with intention to cultivate leadership qualities, professionalism and team work culture amongst the students.
- It is also a measure to remain in the pace with the technical advancements and industry demands.
- Institute has students from various disciplines, belonging to vernacular medium and different economic and cultural backgrounds. Some of the students lack confidence to communicate effectively. VNPS has led to an invariant platform for presentations and multidimensional growth.

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

Every year in the month of April, the Institute organizes a national level project showcase named 'Vidyavardhini's National Project Showcase' (VNPS) where in students from various technical institutes participate to display their projects. It comprises of presentation in the form of posters and live demonstration. Publicity of this event is done through posters and electronic media to register maximum participation. Various areas/tracks under which participation is invited are:

##### **Track 1 (Electronics and Telecommunication Engineering)**

- Microcontroller Embedded system.
- Signal and Image Processing.
- Sensor Network
- VLSI Applications
- Microwave and Radar Engineering
- Emerging Communication Technologies.

##### **Track 2 (Information Technology and Computer Engineering)**

- Cloud Computing and Big Data
- Artificial Intelligence
- Gaming
- Web Security and Networking.

##### **Track 3 (Civil Engineering)**

- Concrete and Structural engineering
- Construction Management
- Geotechnical and Transportation Engineering
- Water Resources and Environmental Engineering

##### **Track 4 (Instrumentation Engineering)**

- Control System Design and Simulation
- Latest Trends in Sensor Design
- Process Automation
- Biomedical Instrumentation
- IoT (Internet of Things)

##### **Track 5 (Mechanical Engineering)**

- Thermal and Fluid Engineering
- Design of Mechanical Components and Engineering
- Advanced Manufacturing
- Modern Automobile Techniques
- Energy Security
- Mechatronics and Automation
- Aerospace Engineering

Experts from the industry are invited to visit as well as to judge the projects, interact with the teams and suggest ideas to improvise the same. The evaluation of the project is based on presentation and demonstration of the project. A committee comprising of atleast three members evaluate the project based on the criteria such as project idea, understanding, utility, execution of the project etc. Three best projects under each track are rewarded with cash prizes and certificates. Participants and visitors both get an opportunity to enhance their technical knowledge through this event.

#### 5. Evidence of Success:

- Year by year there is an increasing number of participants and visitors. Nearly 700 projects are displayed till date.
- With the advancement in the technology, an advancement in the quality of the project has been observed.
- Communication skills, team work culture, leadership qualities and professionalism of the students get enhanced through such competitions.
- It prepares the students for participation various other paper presentation/project presentation competitions. Many students have won prizes at various inter-collegiate paper presentation/project presentation competitions. Few students have also published papers in reputed journals/conferences

#### 6. Problems encountered:

Sometimes students fail to understand the benefits of participating in such events and lack motivation. At such instances, the student committee members and concerned faculty interact with students and make them aware of the spectrum of benefits and opportunities that they can avail by being part of this event.

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

### 7.3 Institutional Distinctiveness

**7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust**

**Response:**

The Institute envisions to be a premier Institute of technical education always aiming and becoming a valuable resource for industry and society. Also, the mission statements of the Institute embrace promotion of creativity, innovation and professional activities. In pursuit of the Institute's vision and mission, the Institute has a unique practice of "**Product Showcase**" which helps in the exposure of students to professional activities. It also sharpens student's technical knowledge.

Every year, the technical committees of all the departments come together to organize a college-wide technical product exhibition. The products are exhibited by students themselves. It is an event for the students, by the students. The event is held under various titles in the different departments.

Sr. No.	Department	Title of the Product	Showcase Activity
1	Mechanical Engineering	Mechexpo	
2	Electronics and Telecommunication Engineering	Anveshan	
3	Instrumentation Engineering	Yantra	
4	Computer Engineering	Abacus	
5	Information Technology	Elixir	
6	Civil Engineering	Nirmiti	

**Objectives:**

- To strengthen Industry-Institute Interaction
- To facilitate team learning.
- To learn about industrial practices
- To learn about work ethics
- To become aware of current market scenarios
- To gain in-depth understanding of product and processes

**The Process/Practice:**

Various industries which manufacture electrical, electronic and mechanical products are tapped under this event. A month prior to the Product Showcase, the student committee members contact the companies stating the objective of the event and its mutual benefits. Companies then send the consent and the list of products that they could provide for display. A fortnight prior to the event, the products are collected by



the students from the company. They receive an orientation on the product by the concerned technical staff from the company and brochures for the same. Small scale industries to multinational companies have been a part of this event. The event is publicized through the college website, banners, posters and social media.

On the day of the event the students and faculty members from the college visit the stalls that are setup for exhibiting the products. The students give presentations and detailed explanation about the products on display. A competition for the 'Best Stall' is organized and judged based on the presentation skills, technical knowledge of the students exhibiting the products.

To ensure the safety of the products, an undertaking is signed between the companies and the respective departments giving the assurance of the repair in case of any damage. The products are returned to the company after the event.

Since the students present these products to a large audience, they get an opportunity to enhance their communication skills. Students do these activities without affecting their academics, this way they also practice time management. The process flow and its benefits are given in table below.

	<b>Process Flow</b>	<b>Benefits</b>
<b>Step 1</b>	Industry Visit by Students	Strengthening of Industry-Institute Interaction
<b>Step 2</b>	Product Observation	Enhancement in learning capability
<b>Step 3</b>	Discussion with Industry Experts	Awareness of current industrial practices
<b>Step 4</b>	Product Study through Brochures, Online Resources, materials provided by the industry	Literature survey and In-depth understanding of products/processes
<b>Step 5</b>	Show-case of Products to the audience	Communication skills and Overall personality development

#### **Evidence of success:**

This event adds to the overall grooming of students as technocrats. Some facts and figures are listed below:

1. Number of Companies visited: 250 approximately
2. Number of students participated/visited: 5000 approximately

The following table depicts year wise information of number of students visited/participated in the event. It has been observed that every year more than 1000 students have participated in past three years.

<b>Academic Year</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
<b>Number of students visited/participated</b>	724	383	479	1283	1082	1285

The following table depicts year wise information of number of companies, which clearly shows an increase in number of companies participating in the event. It expected to have more than 100 companies in the coming year.

Academic Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Number of companies participated	22	24	24	56	64	85

The year wise expenditure is depicted through the following table, which again shows the incremental trend and Institute's support for this unique practice.

Academic Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Expenditure incurred (in Rs.)	46191	48271	47145	134910	189405	207696

## Additional Information about Professional Activities

### i. Objectives of various profession activities

Activity	Objective
Seminar/workshops/technical trainings	To upgrade knowledge and skill
Organizing events	Team building To socialize To exhibit interpersonal, planning and managing skill Financial management To address conflicts

<b>Product Building</b>	<p>To design and validate it</p> <p>Optimization of resources</p> <p>To innovate and create system</p> <p>To generate and manage finance</p> <p>Team building</p> <p>Planning</p> <p>Troubleshooting</p> <p>Time management</p>	
<b>Participation in competitions</b>	<p>To build and exhibit skills and competency</p> <p>To handle peer pressure</p>	
<b>Participate in cultural activities</b>	To demonstrate talent and stage daring	
<b>Industrial tours</b>	Exposure to industry environment and activities	
<b>Sponsored project</b>	To understand, plan and execute the customer expectations	
<b>Internship</b>	<p>Exposure to industrial life,</p> <p>Socializing in industry culture</p>	
<b>Social activities</b>	<p>Social awareness</p> <p>Social uplifting</p>	
<b>Creating Start-up</b>	<p>To show courage and dedication to a cause</p> <p>To identify and fulfill customer needs</p> <p>Business planning</p> <p>Managing the 3 M's, Man Machine and Material,</p> <p>Marketing</p>	
<b>Sports activities</b>	<p>Physical fitness</p> <p>Exhibit skills</p> <p>Sportsman-spirit</p>	

## ii. Statistics about professional activities

Activity	No. of times the activity conducted in last five years
Seminars/workshops/trainings	62
ZEAL-cultural event	5
Ethan-Formula 1 student's car	4
Solathon-Solar car building	1
Product Showcase	5
VNPS	5
College/Intercollege sports	5
Faceoff	4
UDAAN-social activities	16
Declamation competition	1
VISTA-College magazine	5
Departmental magazines	30
Industrial visits	43
Sponsored project	7
Internship	5
Hackathon	2
Departmental Coding Competition	2
E-summit and Biz-master	3
Technical Paper Presentation	3

These activities contribute in the overall development of the students and in their career build up. The efforts taken by students and staff for achieving this distinctiveness is commendable with able support from management.

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

## 5. CONCLUSION

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### **Additional Information :**

Faculty members are motivated to pursue higher studies through sponsorships schemes. Nine faculty members of the Institute have successfully completed their PhD's from reputed Institutes like IITs, NITs and 6 members are pursuing their PhD. The Institute has received research projects funded by Government/ Non-government agencies and Industries. The faculty members made their presence felt in the global research community through publications and representations in reputed National /International Journals and Conferences.

The students of the Institute have always bagged top ranks in the University results. Mr. Shiva Agarwal from Instrumentation had topped the University in the year 2011-12. The Institute felicitates the Best Out Going Student (Male/Female) and Class toppers by giving away cash prizes and certificates.

The Institute has MoU with several Industries. The Institute is recognized Center of Excellence for imparting training for reputed companies like AVEVA (Mumbai), Siemens (Mumbai) and Texas Instrumentation (Bengaluru).

One of the greatest strengths of the Institute is the transparency in Governance and stringent implementation of the government/ AICTE guidelines. The Institute has documented policies for research promotion, staff development and welfare. The Chairman and other members of the Governing Council visit the Institute weekly to provide guidance. The management sympathizes the students and ensures a student centric process in admission, fee payment, admission cancellation, branch transfer etc. The Vidyavardhini Trust has constituted “ Padmashree Bhau Saheb Vartak Sahayy Nidhi” to back the needy students by giving financial support.

The Institute ensures an appreciable budget for research, Faculty / Student development programmes, trainings etc. The Institute envisages the capacity building of the students through Skill Development/training programmes and establishing creating facilities beyond syllabus. The Institute has appointed a professional counsellor to address the psychological/stress related issues of the students/staff. The Institute has state-of-art laboratories, class rooms and seminar halls. The Institute emphasizes on the use of ICT tools for enhancing the learning experience of the students.

Excellent indoor/outdoor sports facility is made available to the students and they are encouraged to participate in co-curricular/extra-curricular activities.

The Institute has taken green initiatives by installing a PV Solar rooftop panel and Water Harvesting system.

### **Concluding Remarks :**

It give me an immense satisfaction to present Self Study Report of Vidyavardhini's College of Engineering and Technology ( VCET), K.T. Marg, Vasai West to the National Assessment and Accreditation Council ( NAAC, Banglore for assessment and Accreditation.

The core to the vision and mission statement of the Institute is the commitment for transforming XII pass student and diploma holder into an professional engineer.

The commitment of the Management is reflected through

- stringent adaptation to the guidelines of the statutory bodies
- adoption and practice of teacher centric, student centric and progress-oriented policies
- effective leadership through active involvement in day to day functioning, decentralization of authority, financial discipline and ensuring the conduct aimed for accountability
- adoption of student welfare approach in all the issues and
- a transparent governance.

The Institute has been accredited by NBA in year 2012.

The percentage of seat filled up, qualifying marks of admitted students and the percentage of student placement reflect the

- efforts taken by teaching staff in academic planning, execution and monitoring
- proper mentoring/ counselling the student and
- student centric policies and practices.

The Institute believes that there is always scope for improvement.

The Institute is gearing up for challenges in terms of employability enhancement, skill development, attracting more quality student as well branding of the Institute. The NAAC accreditation and NBA accreditation if near future will help the Institute to accomplish its mission and continue to work for its vision.

This Self Study Report (SSR) is a result of collaboration of the entire team of VCET. I extend my sincere thanks to the members of NAAC core Committee, Heads of the Department, Registrar, department criteria coordinators, all faculty and staff members, students for their contribution. I thank all the well-wishers for their valuable suggestions and guidance. I also thank the Management of the Institute for their constant support and motivation in this endeavor.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>11</td> <td>2</td> <td>7</td> <td>5</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>00</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	4	11	2	7	5	2017-18	2016-17	2015-16	2014-15	2013-14	1	1	00	0	0
2017-18	2016-17	2015-16	2014-15	2013-14																	
4	11	2	7	5																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
1	1	00	0	0																	
1.2.1	<p>Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</p> <p>1.2.1.1. How many new courses are introduced within the last five years</p> <p>Answer before DVV Verification : 95</p> <p>Answer after DVV Verification: 315</p>																				
1.2.3	<p>Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>396</td> <td>202</td> <td>145</td> <td>19</td> <td>90</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	396	202	145	19	90	2017-18	2016-17	2015-16	2014-15	2013-14	0	0	0	0	0
2017-18	2016-17	2015-16	2014-15	2013-14																	
396	202	145	19	90																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
0	0	0	0	0																	
2.1.2	<p>Average Enrollment percentage</p> <p>(Average of last five years)</p> <p>2.1.2.1. Number of students admitted year-wise during the last five years</p>																				

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
421	420	434	416	439

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
403	400	414	398	417

2.1.2.2. Number of sanctioned seats year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
158	159	188	165	156

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
101	97	105	99	101

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	3	0	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	2	0	1

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years



## 2.4.5.1. Number of full time teachers from other states year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	10	9	11	11

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
9	10	10	11	11

## 3.1.2 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

3.1.2.1. Number of research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification : 11

3.1.2.2. Number of full time teachers worked in the institution during the last 5 years

Answer before DVV Verification : 497

Answer after DVV Verification: 161

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

3.3.4.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
12	28	15	9	8

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
11	26	14	9	8

## 3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
3	5	5	2	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
3	4	5	2	0

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.4.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
1144	1190	612	815	479

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
236	452	0	300	87

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
253	94	61	56	5

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

Remark : The HEI has simply accepted the random changes by DVV and not provided any requested document to verify its claim. Hence HEI input cannot be verified.

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

3.5.2.1. Number of functional MoUs with institutions of national, international importance, other

universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
14	4	3	2	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2	1	0	0	1

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

4.1.3.1. Number of classrooms and seminar halls with ICT facilities

Answer before DVV Verification : 22

Answer after DVV Verification: 22

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Answer before DVV Verification : Yes

Answer After DVV Verification: Yes

5.2.1 Average percentage of placement of outgoing students during the last five years

5.2.1.1. Number of outgoing students placed year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
245	233	268	252	110

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
245	233	268	252	110

5.3.1 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) during the last five years.

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
25	11	12	8	10

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
46	20	26	6	3

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
44	20	24	5	3

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

6.3.4.1. Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
60	32	49	18	14

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
43	26	38	12	11

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

6.5.3.1. Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
12	5	8	7	3

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
12	5	8	7	3

6.5.4	<p>Quality assurance initiatives of the institution include:</p> <ol style="list-style-type: none"> <li>1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements</li> <li>2. Academic Administrative Audit (AAA) and initiation of follow up action</li> <li>3. Participation in NIRF</li> <li>4. ISO Certification</li> <li>5. NBA or any other quality audit</li> </ol> <p>Answer before DVV Verification : B. Any 3 of the above            Answer After DVV Verification: C. Any 2 of the above            Remark : The DVV has considered Regular meeting of Internal Quality Assurance Cell (IQAC) but NBA certificate cannot be considered as its validity has expired.</p>
7.1.9	<p>Differently abled (Divyangjan) Friendliness Resources available in the institution:</p> <ol style="list-style-type: none"> <li>1. Physical facilities</li> <li>2. Provision for lift</li> <li>3. Ramp / Rails</li> <li>4. Braille Software/facilities</li> <li>5. Rest Rooms</li> <li>6. Scribes for examination</li> <li>7. Special skill development for differently abled students</li> <li>8. Any other similar facility (Specify)</li> </ol> <p>Answer before DVV Verification : A. 7 and more of the above            Answer After DVV Verification: C. At least 4 of the above            Remark : The HEI has not provided the required documents as requested by DVV such as invoice for lift. The HEI input has been updated after considering the below resources:- 1. Physical Facilities 2. Ramps 3. Rest rooms 4. Scribes ( no documentary proof given by HEI) 5. Lifts ( no invoice submitted)</p>
7.1.10	<p>Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years</p> <p>Answer before DVV Verification:</p>

2017-18	2016-17	2015-16	2014-15	2013-14
11	12	26	2	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	01	0

Remark : The HEI was requested to HEI to provide E-Copy of circular/brochure/ report of the initiative/ photos of the initiatives/ news report published signed by head of HEI. However no documents in support of the initial claim of Specific initiatives to address locational advantages and disadvantages have been attached. Visit to Wageshwari Village and donation to the villagers is considered. The other activities are related to offering campus as a venue for Exam and for placement. All these are paid activities and further these are activities/initiatives taken to engage with and contribute to local community during the last five years. There is no report of the activity dated 01 Jan 2017. Data updated as per applicability.

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
5	4	6	2	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	02	0	0

Remark : The HEI was requested to HEI to provide E-Copy of circular/brochure/ report of the initiative/ photos of the initiatives/ news report published signed by head of HEI. However no documents in support of the claim of initiatives taken to engage with and contribute to local community have been attached. Hand-maids blessed Trinity Orphanage and Be Santa have been considered. Participation be offering campus facility for Placement and Exam every year 2015-16 onward is also considered. MCA PCP Center of IDOL MUMBAI considered in 2013-14 and 2014-15.

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration,

communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	9	3	4	2

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
5	5	2	2	1

## 2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of courses offered by the institution across all programs during the last five years</p> <p>Answer before DVV Verification : 367</p> <p>Answer after DVV Verification : 329</p>																				
2.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>192</td> <td>192</td> <td>192</td> <td>192</td> <td>185</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>120</td> <td>120</td> <td>120</td> <td>120</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	192	192	192	192	185	2017-18	2016-17	2015-16	2014-15	2013-14	120	120	120	120	120
2017-18	2016-17	2015-16	2014-15	2013-14																	
192	192	192	192	185																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
120	120	120	120	120																	
2.3	<p>Number of outgoing / final year students year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>497</td> <td>461</td> <td>422</td> <td>449</td> <td>352</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>509</td> <td>470</td> <td>426</td> <td>464</td> <td>366</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	497	461	422	449	352	2017-18	2016-17	2015-16	2014-15	2013-14	509	470	426	464	366
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