SELF STUDY REPORT

FOR

1ˢᵗ CYCLE OF ACCREDITATION

VIJAYA VITTALA INSTITUTE OF TECHNOLOGY

VIJAYA VITTALA INSTITUTE OF TECHNOLOGY, NO. 35/1, DODDA GUBBI,
OFF HENNUR - BAGALUR ROAD, BENGALURU - 560077
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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Vijaya Vittala Institute of Technology (VVIT) is established in the year 2009, under Sri Vijaya Vittala Charitable & Educational Trust(R) (SVVCET) with a vision of providing quality technical education for the society. The Institute, in a decade of service, has been recognized as one of the leading technical Institute in northern Bengaluru. The Institute is located near Hennuru-Bagaluru main road, which is an alternate international airport road. The college is located well within Bengaluru, the Silicon city of India. The college campus is spread across 5.025 acres of land. The Institute is affiliated to Visvesvaraya Technological University (VTU), Belagavi and recognized by AICTE, New Delhi.

The institution offers four undergraduate programs namely Mechanical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering and five postgraduate courses namely Machine Design, Structural Engineering, Construction Technology, VLSI Design & Embedded Systems and Computer Network Engineering. Mechanical Engineering, Computer Science & Engineering, Electronics & Communication Engineering departments are recognized as Research centers by VTU.

1.1 Introduction

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Vision

 Emerge as a premier institute in offering technical education and research opportunities to meet the growing technological needs of the society.

Mission

M1: To provide holistic learning ambience for modern education in engineering blended with ethical values.

M2 : To promote all round personality development and enhance the career opportunities through interaction with alumni, academia and industry.

M3: To inculcate a research culture leading to innovators and entrepreneurs

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

S1: VVIT is strategically is located well within Bengaluru, the Silicon city of India. The city is technically advanced in all spheres, such as Information Technology, Automobile Sector, Construction Industry, Aviation Technology, Electronics and Communication sector etc., hence the students have better exposure to technology.

S2: VVIT is one of the recognized institutions in Karnataka for Under Graduate and Post Graduate studies.

S3: Mechanical Engineering, Computer Science & Engineering, Electronics & Communication Engineering departments are recognized as Research centers by VTU.

S4: Qualified and experienced faculty with a good academic and industry experience are available.

S5: Students of different sates and counties take admission.

S6: Institution has adequate class rooms, well equipped laboratories, well stacked central library & Digital library, departmental libraries, two auditoriums, well equipped sports complex including gymnasium, well maintained playground , separate hostel blocks for boys & girls and good transport facility.

S7: All departments have departmental associations.

S8: Institution has MOUs with technical companies.

S9: The institute has initiated e-SIS (Student Information System)

S9: Wi-Fi enabled campus and CCTV camera surveillance.

S10: A good training & placement facility.

S11: A good counseling/mentoring to improve the performance of students.

S12: Workshops and conferences conducted at National &International Level.

S13: Knowledge enrichment is facilitated through technical talks, field/industry visits and training from eminent resource persons.

S14: Students have excelled by securing University ranks.

S15: Staff and Students are carrying out projects funded by different agencies such as VGST, KSCST, VTU etc,.

Institutional Weakness

W1: Difficult to meet the high expectations of statutory bodies due to declining admissions.

W2: Institution requires funding support from government agencies and industries for incorporating research culture.

W3: Collaboration with Foreign Universities/Organizations needs to be established.

W4: VVIT is the self financed unaided institution and fee collection is the major source of income. Hence, more financial burden on the management.

W5: Institute is affiliated to university; hence flexibility for making changes in curriculum as per industry requirement is some extent limited.

Institutional Opportunity

College has completed a decade recently; it is seeking for many opportunities to establish itself in quality technical education.

O1: Recently three departments are recognized as research centers by VTU. The research centers have to be strengthened in terms of infrastructure and good research activities.

O2: The Institution aims to become Autonomous Institution to incorporate changes in curriculum as per industrial needs.

O3: Young and talented faculty can be nourished for research and innovative activities for societal requirement.

Institutional Challenge

C1: Decrease in engineering admissions at state and national levels due to various reasons and also emergence of private universities in the surrounding areas.

C2: To attract core domain companies for campus recruitment.

C3: To develop a network of alumni to the fullest potential.

C4: Retention of faculty in the present scenario to maintain a low attrition rate.

C5: Attracting good quality students from different regions.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Vijaya Vittala Institute of Technology is affiliated to Visvesvaraya Technological University (VTU), Belagavi. VTU has around 220 affiliated technical Institutions in the state of Karnataka. The institution is recognized by AICTE, New Delhi and adheres to the curriculum prescribed by VTU. The institution offers four undergraduate courses namely Mechanical Engineering., Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering and five postgraduate courses namely Machine Design, Structural Engineering, Construction Technology, VLSI Design & Embedded Systems and Computer Network Engineering. Mechanical Engineering, Computer Science & Engineering, Electronics & Communication Engineering departments are recognized as Research & Development centers by VTU. The effective curriculum delivery is achieved by implementing the aspects given below.

1. Advanced planning of academic activities through calendar of events.
2. Preparation of lesson plans keeping in view of course objectives and outcomes.
3. Preparation of adequate learning materials.
4. Maintenance of course files and class teacher files by faculty.
5. Counseling of students by mentors.
6. Remedial classes for slow learners.
7. Periodic review of teaching-learning process by Head of the Department and Principal.
8. Systematic conduction of internal tests and communicate performance of students to parents.
9. Conduction of Guest lectures, seminars, industrial visits and training programmes for knowledge enrichments of students.
10. Conduction of Refresher Courses, workshops and FDPs for up gradation of faculty skills.
11. Systematic conduction of university examinations.

Teaching-learning and Evaluation

The teaching and learning quality of the institution is attained through the updated curriculum and innovative teaching methods followed by faculty members to fulfill the needs of the students and industries. Faculty act both as mentors and guides. A thorough planning and execution of the strategy in teaching the courses throughout the semester pave the way for efficient learning for the students. Providing an opportunity in curricular, co-curricular, extracurricular, project exhibitions in and out of the campus, organizing conferences, seminars, workshops, guest lectures and training programmes, facilitates achievement of learning outcomes. Academic calendar consists of list of working days, Continuous Internal Evaluation dates, public holidays and all other important events like Techno Cultural fest, Social awareness programmes, Sports day etc planned by the institute/departments. Head of the department monitors the academic progress as per the schedule. Faculty adheres to the proposed lecture plan and regularly updates their course files. The institution has made an elaborate plan by constituting various committees on technical quiz, incubation centers, domain specific softwares, e-learning materials, student project exhibition, cultural and techno fest, national and international conferences, and industry integrated certification programmes. The institution has organized wide spectrum of programmes in the domain of engineering.

Research, Innovations and Extension

The institution always encourages and supports the research activities. There are three R and D centers in the departments of Mechanical, Civil, Computer Science & Engineering and E& C Engineering departments. Many

faculty are pursuing Ph.D under recognized universities. R & D Centre of Mechanical Engineering has received Rs 20 lakhs grant from Vision Group of Science and Technology(VGST), a Govt. of Karnataka agency. The Institution has in place an ecosystem for innovation and other initiatives for creation and transfer of knowledge. A Research Advisory Committee consisting of The Principal, Dean (R&D) and other senior professors from various departments, guides and monitors the initiation and progress of research. Conferences/Workshops/Seminars are conducted on recent trends and developments in Engineering and Technology.

Infrastructure and Learning Resources

Vijaya Vittala Institute of Technology has a sprawling of 5.025 acres. Institution has 26 Lecture halls, 2 seminar Halls and two drawing halls. Institution has total four engineering departments namely Mechanical Engineering, Civil Engineering, Computer Science & Engineering, Electronics and Communication Engineering in addition to Science and Humanities. In Science and humanity, there are Mathematics, Physics, Chemistry and Physical education departments. All departments are well connected by intercom and optical fibre backbone network. The whole campus is Wi-Fi enabled. The Institution has boys & girls Hostels , Ladies Amenities Center, Cafeteria, play ground for Outdoor Sports and an Indoor Games Complex within the College campus. Faculty and students are encouraged to use ICT resources; classrooms are well equipped with projectors to enable the power point presentation for interactive sessions between students and faculty. The placement and training cell is well established with Group Discussion and Interview rooms. Library and Information Centre is located in an area of 1000 Sq.mt. The library has about 9318 volumes of books and 300 volumes of periodicals. A separate SC/ST book bank of nearly 900 volumes of books is maintained. The institute is a member of VTU e-consortium which offers extraction of research articles from IEEE journals, Elsevier and Springer published journals. Each department has its own library catering to the needs of the students. Digital Library has 35 desk top systems with internet connection facility. University has provided facility to students for accessing NPTEL (National Programme on Technology Enhanced Learning) lectures, study material which is a joint initiative of the IITs and IISc. Institution is also a member for NPTEL which facilitates to take online certificate courses and faculty development programmes.

Student Support and Progression

VVIT has an effective Student mentoring and Support system. Mentors/counselors are nominated for a group of 15 to 20 students. Mentors have the responsibility of monitoring the academic performance of students and counsel them on personal matters to certain extent. Parents are informed about the attendance and internal marks on regular basis. A parent-teachers meeting is convened by the Institution to discuss the overall performance and progress of students. The Institute recognizes and encourages meritorious students and rewards. Rank holders are felicitated with, Medals and Cash prize. Institute provides information about the competitive examinations and offers career counseling, soft skills training, and entrepreneurial skills through eminent resource persons to enhance the employable opportunity for the students. The institute has grievance redressal Committee, anti-sexual Committee, Anti ragging Committee to address the related issues. The students are encouraged to participate in the paper presentations, project exhibition and technical fests conducted by other institutions. Various clubs such as music club, photography club, cultural committee departmental forums etc. are formed to nurture the talents of students. The students are encouraged to take part in several cultural and co-curricular activities at intra and inter College levels, which not only improves their leadership skills but also contributes to the overall personality development enhancing the academic performance. The Institute facilitates to obtain scholarships through different organizations such as

Government, NGO and private to the deserving students. Research and development wing encourages students to carry out innovative live projects. Recognized projects are funded by the Institution. College also conducts blood donation camp, Swacha Bharat etc., which create social awareness among the students by their participation. Yoga and meditation are conducted to improve physical and mental fitness. Visit to orphanage and shelter homes are organized for the students. Alumni meets are conducted to involve the alumni who are the key stakeholders in the progress of students. The alumni association provides a platform for alumni to interact with the students. The suggestions of alumni in Industry, academics, placement and training programmes are incorporated to bridge the gap between the Industry and academics.

Governance, Leadership and Management

VVIT has successfully completed a decade and has been engaged in the noble task of providing opportunity to the youth in acquiring higher technical education and empowering them with technical knowledge.

VVIT, is the far sighted vision of Smt. Rukmini , Chairperson , SVVCET, Bengaluru. Her contribution to education and philanthropy is immeasurable. We are fortunate to be under her constant guidance and support. She has been the motivator, visionary and it is purely due to her dedication and determination that VVIT has been listed as one among the top engineering Institutions under the Visvesvaraya Technological University (VTU).

Dr. Krishnaprasad T, Vice president, SVVCET, is actively involved in the overall development and excellence of the institution. He has special concern for students and their well being.

Sri.Tyagaraj T, Secretary, SVVCET is the chief mentor of VVIT, who takes keen interest in the development of infrastructure facilities of VVIT. His constant efforts can be seen in the growth of the institution. He is a great visionary who has contributed towards the overall growth and development of the college.

Dr. Shivaprakash T, Treasurer, SVVCET is involved in academic administration and placement activities of the college. He has experience in information and technology field, embedded systems and digital multimedia. He is the source of inspiration in all the technical endeavors and also has lot of passion towards the teaching and other activities conducted at college. He looks after every activity in the college, is being organized with utmost care.

Dr. Venugopal K R, Vice Chancellor, Bangalore University and Former Principal, University Visvesvaraya College of Engineering (UVCE), is the Technical Advisor of the institution. He has a distinguished academic career and has degrees in Electronics, Economics, Law, Business Finance, Public Relations, Communications, Industrial Relations, Computer Science and Journalism. He has authored 27 books on Computer Science and Economics, which include Petrodollar and the World Economy, C Aptitude, Mastering C, Microprocessor Programming, Mastering C++ etc. The technical activities and events such as workshops, conferences, seminars, research activities etc., are conducted under the guidance and supervision of Dr. Venugopal K R.

Institutional Values and Best Practices

VVIT has implemented following Institutional Values

Institution maintains complete transparency by involvement of all stakeholders in financial, academic and, administrative functions. College has initiated eco friendly measures by maintaining clean & green campus, adopted Rain water harvesting to conserve water and developed a shredding machine to convert biomass into organic manure. Hostel blocks installed with Solar water heating system. Institution is discharging its social responsibilities by conducting Blood donation camp, free eye check up, drug awareness program, Yoga &meditation classes etc,. The Institution is sensitive to gender equity and parity. Sensitization programs are organized regularly. Safety and security, common room, counseling facilities are provided to females. Anti ragging and sexual Harassment Committee ensures fast decisions if any case of sexual harassment issue arises. In continuation of Indian culture, heritage and National Integrity,National Festivals, Engineers Day, Women's Day, Teachers Day etc, are celebrated

VVIT has implemented following best practices.

1. Rain water harvesting
2. Maintaining clean and green campus
3. Online delivery of progress reports, daily attendance reports and circulars using Gurukul software
4. Online student feedback system
5. Remedial classes for slow learners
6. Group insurance coverage for all students and staff
7. Wi-Fi enabled campus
8. MoUs with reputed organizations/industries
9. Departmental forum for student activities
10. Student counseling and parents-teachers meet
11. CCTV surveillance system which covers all class rooms, laboratories and entire campus
12. Scholarship facility for economically poor students and meritorious students
13. Conduction of ethics based and value added classes by eminent persons
14. Indoor sports facility and gymnastic facilities for the students
15. Celebration of National Festivals, Engineers Day, Women's Day, Teachers Day etc.,
16. Conduction of placement and training
17. Carry out Real time projects
18. Internship/field projects for students
19. In –house department library facilities
20. Merit prizes for class toppers.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	VIJAYA VITTALA INSTITUTE OF TECHNOLOGY
Address	VIJAYA VITTALA INSTITUTE OF TECHNOLOGY, NO. 35/1, DODDA GUBBI, OFF HENNUR - BAGALUR ROAD, BENGALURU - 560077
City	BENGALURU
State	Karnataka
Pin	560077
Website	www.svvit.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Rajendra S	080-50472867	9886793455	080-2844504 5	vvit2009@gmail.c om
IQAC / CIQA coordinator	Krishnamurth y N	080-65472867	9343037974	080-2844485 4	krishnamurthy.n72 @gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details

Date of establishment of the college	01-01-2009

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

State	University name	Document
Karnataka	Visvesvaraya Technological University	[View Document](#)

Details of UGC recognition

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

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

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	30-04-2019	12	Extension of approval for academic year

Details of autonomy

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

Recognitions

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

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	VIJAYA VITTALA INSTITUTE OF TECHNOLOGY, NO. 35/1, DODDA GUBBI, OFF HENNUR - BAGALUR ROAD, BENGALURU - 560077	Urban	5.025	18414.51

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	**Name of Programme/Course**	**Duration in Months**	**Entry Qualification**	**Medium of Instruction**	**Sanctioned Strength**	**No.of Students Admitted**
UG	BE,Civil Engineering	48	PUC or Plus Two	English	120	41
UG	BE,Computer Science And Engineering	48	PUC or Plus Two	English	60	53
UG	BE,Electronics And Communication Engineering	48	PUC or Plus Two	English	60	9
UG	BE,Mechanical Engineering	48	PUC or Plus Two	English	120	15
PG	Mtech,Civil Engineering	24	B.E or B.Tech	English	18	9
PG	Mtech,Civil Engineering	24	B.E or B.Tech	English	18	8
PG	Mtech,Computer Science And Engineering	24	B.E or B.Tech	English	18	1

PG	Mtech,Electronics And Communication Engineering	24	B.E or B.Tech	English	18	1
PG	Mtech,Mechanical Engineering	24	B.E or B.Tech	English	18	3
Doctoral (Ph.D)	PhD or DPhil,Computer Science And Engineering	60	M.E or M.Tech	English	16	6
Doctoral (Ph.D)	PhD or DPhil,Electronics And Communication Engineering	60	M.E or M.Tech	English	16	0
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	60	M.E or M.Tech	English	16	2

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				11				17				61
Recruited	10	0	0	10	3	2	0	5	22	33	0	55
Yet to Recruit				1				12				6
Sanctioned by the Management/Society or Other Authorized Bodies				11				17				61
Recruited	10	0	0	10	3	2	0	5	22	33	0	55
Yet to Recruit				1				12				6

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				16
Recruited	14	2	0	16
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				16
Recruited	14	2	0	16
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				18
Recruited	6	12	0	18
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				18
Recruited	6	12	0	18
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	9	0	0	2	0	0	0	0	0	11
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	1	2	0	22	33	0	58

Temporary Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
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		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	0	0	0	0	0	0	1
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**	**Others**	**Total**
	4	2	0	6

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
Doctoral (Ph.D)	Male	4	0	0	0	4
	Female	4	0	0	0	4
	Others	0	0	0	0	0
UG	Male	33	33	0	28	94
	Female	20	4	0	0	24
	Others	0	0	0	0	0
PG	Male	16	1	0	2	19
	Female	3	0	0	0	3
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	9	18	11	13
	Female	10	8	9	14
	Others	0	0	0	0
ST	Male	5	20	12	25
	Female	0	2	2	3
	Others	0	0	0	0
OBC	Male	42	88	89	81
	Female	21	21	35	42
	Others	0	0	0	0
General	Male	44	80	48	49
	Female	4	11	10	8
	Others	0	0	0	0
Others	Male	10	14	11	12
	Female	5	3	6	5
	Others	0	0	0	0
Total		150	265	233	252

Extended Profile

1 Program

1.1

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

2018-19	2017-18	2016-17	2015-16	2014-15
343	316	326	354	333

File Description	Document
Institutional data prescribed format	View Document

1.2

Number of programs offered year-wise for last five years

2018-19	2017-18	2016-17	2015-16	2014-15
13	12	11	11	11

2 Students

2.1

Number of students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
696	770	851	867	857

File Description	Document
Institutional data in prescribed format	View Document

2.2

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

2018-19	2017-18	2016-17	2015-16	2014-15
138	138	138	138	138

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2018-19	2017-18	2016-17	2015-16	2014-15
139	165	182	176	183

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

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

2018-19	2017-18	2016-17	2015-16	2014-15
72	76	77	79	77

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
87	117	117	117	117

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 35

4.2

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

2018-19	2017-18	2016-17	2015-16	2014-15
264.78	241.59	274.76	235.48	210.83

4.3

Number of Computers

Response: 267

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:

VVIT is affiliated to Visvesvaraya Technological University (VTU), Belagavi. VTU forms Board of Studies which frames the syllabi for B.E. and M.Tech courses. The institution provides feedback about the subjects in the Board of Studies meetings organized by the University. The following steps are considered in the implementation of curricular planning.

1. Based on the syllabi of University, faculty submits their preferences in the subject.
2. HoDs of each department conducts subjects allotment meeting and allots the subjects to the faculty.
3. Institute receives the calendar of events from University.
4. Institute prepares the detailed calendar of events based on the calendar of events provided by the University.
5. The time table is prepared by the time table committee formed by the Institution.
6. The faculty prepares the lesson plan as per the time table and lab manuals based on objectives and outcomes of the course specified in the syllabus at the beginning of the semester.
7. Course files are maintained by faculty which includes calendar of events, time table, students list, syllabus, University question papers, CIE question papers with the scheme of evaluation and course materials.
8. Class teachers are assigned for each section to look after the routine functioning of the classes. Class teachers maintain the class teacher's file which consists of student list, mentors list, time table, number of classes conducted and portion coverage per week, cumulative attendance and CIE marks.
9. A Mentor/counselor is allotted for each group of 15 to 20 students to counsel the student for their difficulties in the academics. The mentor acts as a guide, motivator and emotionally supports the students whenever necessary. The mentor will be interacting with parents for the progress of the students.
10. Classes are conducted as per the time table and monitored by HoDs and Principal.
11. Class teacher files and lesson plans are brought to the attention of HoD and Principal, weekly.
12. Teaching aids such as PowerPoint presentations, audio-video, models related to subjects are used wherever necessary.
13. Gurukul ERP software is used as a platform for the interaction among faculty, students and parents about attendance, CIE marks, and general information.
14. CIE is conducted as per the calendar of events. Question papers for CIE are prepared to facilitate the attainments of the course outcomes for various courses.
15. Technical lectures, field/industrial visits, workshops/conferences, technical fests, cultural fests, and sports are conducted as per calendar of events in addition to placement training activities to improve the overall comprehension of students.
16. Students are encouraged to do innovative live projects related to social, economical and technical advancement.

17. Students are motivated to do research work and present papers in conferences and publish papers in journals.
18. Semester End Exam (SEE) is conducted as per the schedule given by University. Question papers are delivered online by the university through the Question Paper Delivery System (QPDS).
19. The digital valuation system is adopted for evaluation and results are declared online by the University.
20. HoDs conduct the departmental meetings and Principal conducts HoDs meetings periodically, to ensure the effective implementation of the academic plan

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

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

Three internal tests and alternative assessment tools (AAT), such as quiz, assignment, etc., are conducted as CIE in theory subjects. CIE provides continuous feedback on each student of his/her academic performance. Students are benefited by the CIE as it enables continuous and independent work rate, verbal language skills and testing of theoretical concepts to achieve program outcomes.

A centralized test committee is formed comprising of coordinators from each department. The schedule of tests is indicated in the calendar of events. The departmental coordinators collect the question papers from the concerned course teachers. The question papers are scrutinized by the committee consisting of senior teachers and HoD. Assignments and Quiz (AAT) are identified by the faculty and given to the students during the semester.

Students go through sufficient practical training as a University curriculum includes two laboratory courses in each semester. Practical courses develop interpersonal skills along with the enhancement of technical skills. Practical records are evaluated weekly and the internal test is conducted at the end of the semester. The CIE assessment is made based on the above in practical subjects.

Project work has to be taken up by the students in the final year. The departmental project committee identifies projects in different domains and displays for the students to choose the project in their interested field. Project work is reviewed in two phases. The project work results in improving coordination, leadership qualities, report writing skills and application of engineering concepts. Students carry out mini-projects in the third year as stipulated by the University.

University has introduced an internship for UG from the academic year 2015-16. It is to be carried out between the 6th & 7th semester and/or 7th & 8th-semester vacations for a duration of 4 weeks. Department facilitates the students to carry out an internship in various Public Sectors/ Private Industries/ Semi-Government organizations. The internship gives exposure to industry/ field experience and knowledge to the students.

The technical seminar is to be carried out in the 8th semester. The purpose of the technical seminar is to expose the students to the recent trends/development in Engineering and Technology. By presenting a technical seminar, the student can improve presentation skills in addition to technical knowledge.

HODs conduct staff meetings and Principal conducts HODs meeting at regular intervals to monitor the academic performance and progress during the semester.

Effective implementation of evaluation reform of the University is strictly followed and those initiated by its own are ensured by the Institution by strict compliance of process and procedure devised/ suggested by the University in order to follow the continuous evaluation system.

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

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. **Academic council/BoS of Affiliating university**
2. **Setting of question papers for UG/PG programs**
3. **Design and Development of Curriculum for Add on/ certificate/ Diploma Courses**
4. **Assessment /evaluation process of the affiliating University**

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	[View Document](#)
Details of participation of teachers in various bodies/activities provided as a response to the metric	[View Document](#)
Any additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 75

1.2.1.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Response: 9

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 35

1.2.2.1 **How many Add on /Certificate programs are added within the last 5 years.**

2018-19	2017-18	2016-17	2015-16	2014-15
9	6	7	7	6

File Description	Document
List of Add on /Certificate programs	View Document
Any additional information	View Document

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Response: 42.37

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
398	265	378	367	287

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

Visvesvaraya Technological University (VTU) curriculum has subjects such as Environmental Sciences, Constitution of India and Professional Ethics, Management and Entrepreneurship, Air Pollution, Waste Water Engineering, etc., which brings awareness on above issues.

Gender sensitization activities are carried out in the Institution. The Institution gives equal opportunities to both the genders in terms of admissions, employment, training programmes, sports, and cultural activities etc. The college encourages both girl students and women employees to participate in various events focusing on women empowerment and promoting leadership qualities. International women's day is celebrated on 8th March, every year. Girls and boys participate in various curricular and extracurricular activities. Both boys and girls are members of various clubs associated with academic, co-curricular and extracurricular activities. The anti-sexual harassment committee looks after the grievances related to sexual abuse, teasing, etc.

Environmental awareness activities such as world environmental day, earth day, tree plantation, etc., are conducted by the Eco club. Lectures by environmentalists are organized by the Institute. The college discourages the use of plastics and is a plastic-free campus. Rainwater harvesting is adopted on the campus. Topics related to environmental issues are taken up for quizzes and debates during Environmental Day and Earth Day. Students visit effluent and water treatment plants which educate them on environmental issues.

To inculcate human values, the Institute organizes blood donation camps, Swach Bharath, Fit India and seminars on the importance of hygiene and individual responsibilities. Visit orphanage centers are arranged to know the value of life. Yoga and meditation classes are conducted for physical and mental agility. Students are encouraged to support the needy during natural calamities.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 4.62

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
19	17	17	14	10

File Description	Document
Programme / Curriculum/ Syllabus of the courses	[View Document](#)
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	[View Document](#)
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	[View Document](#)
Any additional information	[View Document](#)

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

Response: 37.93

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

Response: 264

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	[View Document](#)
Any additional information	[View Document](#)

1.4 Feedback System

1.4.1 *Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni*

Response: B. Any 3 of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. **Feedback collected, analysed and action taken and feedback available on website**
2. **Feedback collected, analysed and action has been taken**
3. **Feedback collected and analysed**
4. **Feedback collected**
5. **Feedback not collected**

Response: B. Feedback collected, analysed and action has been taken

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 42.8

2.1.1.1 **Number of students admitted year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
142	150	265	233	250

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

2018-19	2017-18	2016-17	2015-16	2014-15
486	486	486	486	486

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 58.26

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

2018-19	2017-18	2016-17	2015-16	2014-15
52	62	96	96	96

File Description	Document
Average percentage of seats filled against seats reserved	[View Document](#)
Any additional information	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

- English and Mathematics tests are conducted to assess the capability of students. Special classes on English and Mathematics are arranged for slow learners prior to the commencement of the programme.
- The students are assessed based on their CIE performance. Remedial classes are conducted for slow learners to improve their performance.
- Bridge courses for the lateral entry students are conducted in mathematics to enable them to understand basics in engineering subjects properly.
- Each student has a counselor who monitors the performance of the student and counsels the slow learners. The counselor identifies the drawback of the student and guides him/her for performance improvement. Parents are informed about attendance and internal marks on a regular basis. A parent-teacher meeting is convened by the Institution to discuss the overall performance and progress of slow learners.
- Teaching aids such as PowerPoint presentation, audio-video, models related to subjects are used wherever necessary for a better understanding of the concepts.
- Communication Skills Development and Personality Development Programmes are conducted compulsorily for all the students of the college.
- Technical Training programmes such as Catia, Fusion 360, Revit structures, Etab , Advanced Java , Matlab etc. are conducted related to their programmes.
- Aptitude training is conducted for all students.
- For knowledge Enrichment seminars, conferences, guest lectures, and workshops are arranged by the departments.
- Advanced learners are encouraged and guided to present papers in the conferences and publish papers in the journals.
- Advanced learners are motivated to take up live and innovative projects. Identified projects are sponsored by the Institution.
- Advanced learners are advised to take competitive exams such as GRE, TOEFL, GATE, IES, CAT, etc.

Advanced learners are given the opportunity to utilize the laboratories in the extended hours and will be encouraged and taught to do the experiments beyond the syllabus.

File Description	Document
Upload any additional information	[View Document](#)
Past link for additional Information	[View Document](#)

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 10:1

File Description	Document
Any additional information	[View Document](#)

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:

The outcome based education (OBE) is to be students centric for better efficiency. The learning is being made student-centric by supporting the students at various levels.

- Class Room Teaching:`

The teaching-learning process is made student-centric by employing teaching aids such as blackboard, LCD projector, and whiteboard with marker pens, charts, physical models, etc., to convey the information to students. Teaching is made interactive by encouraging students to ask questions and clear doubts.

- Laboratory Classes:

  - Students have to study a minimum of two laboratory courses each semester as per the curriculum of the University.
  - Manuals are prepared by the faculties for all the laboratories to enable the students to understand and carry out experiments.
  - The work done by students in laboratory classes has to be noted in an observation book and finally updated in the record book. The record book is evaluated by the concerned faculty.

- As per the University curriculum, students are made to deliver the technical seminars in recent developments/trends, which improve communication skills. The students are motivated to participate and present papers in conferences.
- All undergraduate students have to undergo internship during their 6th and 7th-semester vacations as prescribed by the University. Postgraduates students undergo internship during their 2nd and 3rd-semester vacations to acquire industrial/field experience and knowledge.
- Mini projects are carried out by the students as per university norms.
- The students have to do project work as a part of their curriculum during the 7th and 8th semester. Projects are carried out under the guidance of teachers. In addition, students can also take guidance from outside resource persons, facilities from industries, R & D centers and reputed institutes like IITs and IISc. Students are encouraged to participate in Technical fests and present their projects/models.
- The Institution organizes project exhibitions every yiear and the best projects are awarded. Students get greater exposure to modern methods and can understand the subject better. It helps the students to increase self-learning potential.
- Online interactive sessions/classes are conducted on specific subjects by eminent persons through e-

shikshana program by the University.
- NPTEL courses are available for the students to gain knowledge.
- Cultural and sports activities are organized by the Institute and students are encouraged to participate in the activities.
- Seminars /Guest Lectures/workshops/Conferences are organized for students to participate and aware of new trends/technologies.
- The college is a member of the VTU consortium in which students can access e-Journals such as IEEE, Springer, ASCE, etc.

File Description	Document
Upload any additional information	[View Document](#)
Link for additional information	[View Document](#)

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

The Institute is using ICT tools for effective teaching-learning process. The college has a Wi-Fi facility throughout the campus and in the boys and girls hostels. The Institute has broadband internet connectivity and all departments are well connected with the internet. Two seminar halls of 180 seating capacity with the audiovisual facility are established. In addition, the Institution has smart classrooms for facilitating ICT enabled effective teaching-learning process.

In the Institution, faculty are engaged in using ICT enabled tools for effective teaching-learning process. Powerpoint presentations and videos have been prepare by the faculty members for a better understanding of the subject. Some of the Powerpoint presentations given by the faculty on various topics are given below.

- Building material and Construction Techniques
- Railway, Harbour Tunneling, and Airports
- Airport Planning
- Contracts and its types
- Water Supply Engineering
- Construction Demolition and Waste Management
- CDM
- Damp Proofing
- Initial arcs
- Microcontroller and Embedded System
- Big Data
- ZX Analysis of Design and Algorithms
- OOPs using C++
- C Programming
- Object-Oriented Concepts
- Python

- Cryptography Network Security and Cyber Law
- Arm Microcontroller and Embedded System
- Grinding Machines
- Mechanical Properties of metals

Some of the videos used as ICT tools are mentioned below.

- Inorder traversal, Preorder Traversal, and Post Order Traversal
- BST operations
- Construction of BST
- Deletion in BST

In addition, faculty are making use of technical material available in the YOU Tube for proper demonstration and learning.

Gurukul, Student Information System (SIS) is used as an ICT platform through which assignments and course materials are made available.

University has made e-SHIKSHANA program, an ICT enabled program. University has funded a projector, conference cam, note pad, etc for this facility. Live video interactive sessions are conducted by eminent personalities on important subjects such as the Design of Machine Elements I and II, Turbomachines, Heat transfer. Basic and Applied Thermodynamics, Strength of Materials, Theory of Structures, Advanced Java and J2EE, Electronic Devices, Mathematics, etc, Students attend the sessions as per the time table provided by the University.

The Institute is a member of NPTEL in which video courses as learning materials are available by the IITs for teachers and students.

File Description	Document
Upload any additional information	[View Document](#)
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	[View Document](#)

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Response: 11:1

2.3.3.1 Number of mentors

Response: 63

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	<u>View Document</u>
mentor/mentee ratio	<u>View Document</u>
Circulars pertaining to assigning mentors to mentees	<u>View Document</u>

2.4 Teacher Profile and Quality

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

Response: 69.37

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	<u>View Document</u>
List of the faculty members authenticated by the Head of HEI	<u>View Document</u>
Any additional information	<u>View Document</u>

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

Response: 11.9

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

2018-19	2017-18	2016-17	2015-16	2014-15
13	10	9	8	5

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	<u>View Document</u>
Any additional information	<u>View Document</u>

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest

completed academic year in number of years)

Response: 4.4

2.4.3.1 **Total experience of full-time teachers**

Response: 317.1

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

Three internal tests and alternative assessment tools (AAT), such as quiz, assignment, etc., are conducted as CIE in theory subjects. CIE provides continuous feedback on each student of his/her academic performance. Students are benefited by the CIE as it enables continuous and independent work rate, verbal language skills and testing of theoretical concepts to achieve program outcomes.

A centralized test committee is formed comprising of coordinators from each department. The schedule of tests is indicated in the calendar of events. The departmental coordinators collect the question papers from the concerned course teachers. The question papers are scrutinized by the committee consisting of senior teachers and HoD. Assignments and Quiz (AAT) are identified by the faculty and given to the students during the semester.

Students go through sufficient practical training as the University curriculum includes two laboratory courses in each semester. Practical courses develop interpersonal skills along with the enhancement of technical skills. Practical records are evaluated weekly and the internal test is conducted at the end of the semester. The CIE assessment is made based on the above in practical subjects.

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Effective implementation of evaluation reform of the University is strictly followed and those initiated by its own are ensured by the Institution by strict compliance of process and procedure devised/ suggested by the university in order to follow the continuous evaluation system.

File Description	Document
Any additional information	[View Document](#)
Link for additional information	[View Document](#)

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

College-level grievance redressal:

- Grievance Redressal Cell exists in the institution headed by senior Prof. Harsha S, Department of Mechanical Engineering. Grievance boxes are kept near the Principal chamber and HoD rooms to address the queries.
- After the conduction of each Internal Assessment test/AAT, students may discuss the marks allotted of his/her Blue Books/Assignment/ Quiz for any clarification with the subject teacher and get redressal, if any for their grievances within a week after the internal test. The students may also approach the HoD or the Principal if redressal is not satisfied by the subject teacher.
- Retests are conducted for the students with prior permission for their absence due to genuine reason with the permission of the principal.
- Technical seminar/Internship/project marks are displayed on the notice board. Any student may contact the respective coordinator for redressal if required. The student may also approach the respective committee or HoD if the redressal seems to be not properly addressed by the coordinator.

University level grievance redressal:

- Online exam forms of students are applied by the Class teachers and thus avoiding mistakes in writing the course, course code and other details.
- After a particular Semester End Exam (SEE), if there are questions from 'out of syllabus or if there are any errors in the questions, students can inform their grievance to the subject faculty. A letter with the signature of students and forwarded by faculty is sent to the Registrar of Evaluation through Principal, to take necessary steps during the valuation process.
- Students can apply for revaluation after the declaration of SEE results, in a theory course as per the

dates mentioned in the circular issued from the University, if they are not satisfied with the first valuation. Students can also apply for the photocopy of their answer scripts and discuss them with their respective course faculty.

- Prof. Harsha S, University Examination Incharge takes care of most of the problems faced during the examination in consultation with the Principal.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

University has adapted twelve Program Outcomes of the National Board of Accreditation (NBA) as program outcomes for all Engineering programs. University has also arrived at different Program Specific Outcomes for various programs such as Civil Engineering, Computer Science & Engineering, Mechanical Engineering, Electronics & Communication Engineering, etc. University has also stated Course Outcomes for each Course after scheduling meetings with Subject experts. Program outcomes, Program Specific Outcomes, and Course Outcomes for all Programs are displayed on the university website as well as on the Institution website.

Teachers must be aware of Program outcomes, Program Specific Outcomes and Course Outcomes of the respective program. A meeting of faculty with the principal is conducted before the commencement of the semester to refresh the program outcomes. Departmental meetings are held to communicate Program Specific Outcomes and Course Outcomes at regular intervals. The orientation program is conducted for newly recruited teachers to bring awareness about Program Outcomes, Program Specific Outcomes and Course Outcomes for all Programs.

The students are made aware of the outcomes of the program during the induction programme. HoDs of individual departments convey the Program Specific Outcomes during the first interaction with the students. Course teacher of each subject communicates to the students, the importance of both course objectives and course outcomes at the beginning of the semester.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

Each course has stated course outcomes. Based on the average result of the University, a target is set for each individual course. Attainment is measured in terms of the actual percentage of students getting a set percentage of marks. If the set attainment is achieved, the next attainment level is revised. If the set attainment is not achieved, the reasons for the same are analyzed and an action plan for achieving the attainment is implemented.

To strengthen the program outcomes and program specific outcomes, the college also conducts soft skill training programmes to the students for improving communication skills and life skills. The students are encouraged to take up minor and major projects to apply their technical knowledge to solve engineering problems. The Institution has a full-fledged placement cell headed by placement and training officer. The placement and training officer organizes training programs and invites companies for campus recruitment. Skill development programs are being organized by the respective departments to improve the employability of the students. Course outcomes are also mapped with their relevant Program Outcomes (PO) as stated by NBA and Program Specific outcome (PSO) and their attainment is also calculated.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 88.02

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

2018-19	2017-18	2016-17	2015-16	2014-15
148	148	158	160	156

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

2018-19	2017-18	2016-17	2015-16	2014-15
159	169	176	177	184

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	[View Document](#)
Upload any additional information	[View Document](#)
Paste link for the annual report	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 2.97

File Description	Document
Upload database of all currently enrolled students (Data Template)	[View Document](#)
Upload any additional information	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 21.66

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

2018-19	2017-18	2016-17	2015-16	2014-15
20.545	0.485	0.560	0.07	0

File Description	Document
List of endowments / projects with details of grants	[View Document](#)
e-copies of the grant award letters for sponsored research projects / endowments	[View Document](#)
Any additional information	[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 8.33

3.1.2.1 **Number of teachers recognized as research guides**

Response: 6

File Description	Document
Institutional data in prescribed format	[View Document](#)
Any additional information	[View Document](#)

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 50

3.1.3.1 **Number of departments having Research projects funded by government and non-government agencies during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	1	1	0

3.1.3.2 **Number of departments offering academic programes**

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	4	4	4

File Description	Document
Supporting document from Funding Agency	[View Document](#)
List of research projects and funding details	[View Document](#)
Any additional information	[View Document](#)
Paste link to funding agency website	[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

VVIT always supports research activities. Empowerment of knowledge is achieved with strong theoretical knowledge, interdisciplinary skills, creativity, innovation, and hands-on expertise and professional ethics. Research activities in the institute foster these needs among students and faculty members.

The research and development activities are looked after by R&D Dean, Mechanical Engineering, Computer Science & Engineering, and Electronics & Communication Engineering departments are recognized as research centers by Visvesvaraya Technological University, Belagavi.

Objectives of the Research & Development Center:

- To encourage teachers to write research proposals for funded Research Projects.
- To provide information about funding agencies, area of research and amount of funding.
- To prepare review reports of the ongoing research projects at regular intervals.
- To initiate setting up of incubation center/Center of excellence.
- To organize expert lectures on research methodologies and research related areas to motivate the faculty.

Senior professors have registered as Research Guides in VTU and are guiding many scholars. Faculty members are pursuing their doctoral degrees in the research center of various departments. Faculty members are always supported to publish and present papers. 41 research Scholars are pursuing Ph.D. under the guidance of our faculty. Projects funded by the various funding agencies like VTU, VGST, KSCST, etc are being carried out in the Institution. Institute has MOUs with many industries and organizations like Autodesk, CADD center, Q-spiders, Seventh Sense, etc. The college has a consultancy cell to carry out consultancy work which caters to various Government and Private Organizations.

Facilities available for Staff & Students:

- All departments have well-equipped labs for research work.
- Institute is a member of the VTU Consortium, through which reputed e-Journals such as IEEE, Springer, Science Directory, etc., can be accessed.
- Wi-Fi network connectivity is available for both students and faculty.
- Senior professors in the college are available for providing guidelines.
- Staff and Students are allowed to utilize the infrastructural and other resources for their research work. Equipment, instruments, computers, software's are available in different R&D centers and other laboratories to which the staff and students are given access to carry out research activities.
- These facilities are provided to the students and faculty on holidays and even after the working hours so as to enable them to carry on with their research work.

The Institution nurtures critical thinking, creativity and scientific temper among staff & students by taking the following measures:

- The department level forums organize workshops and technical talks in recent technologies.
- The institute encourages the students and staff to publish papers in various national and international journals/conferences.
- The institute encourages the students and staff to participate in various national and international level conferences/workshops.
- Institute organizes "Project Exhibition" for the final year students and prizes are given to innovative projects.
- Institute encourages the involvement of students in projects apart from their regular curriculum. Innovative projects are funded by the Institute.
- Institute helps the students in getting sponsorship for the students' projects from the funding agencies like KSCST, VTU, etc.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response: 0

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Report of the event	[View Document]()
List of workshops/seminars during last 5 years	[View Document]()
Any additional information	[View Document]()

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 2.56

3.3.1.1 **How many Ph.Ds registered per eligible teacher within last five years**

Response: 23

3.3.1.2 **Number of teachers recognized as guides during the last five years**

Response: 9

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document]()
Any additional information	[View Document]()
URL to the research page on HEI website	[View Document]()

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 0.07

3.3.2.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	1	0	3

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document]
Any additional information	[View Document]

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

Response: 0.34

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

2018-19	2017-18	2016-17	2015-16	2014-15
6	2	3	11	4

File Description	Document
List books and chapters edited volumes/ books published	[View Document]
Any additional information	[View Document]

3.4 Extension Activities

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

Response:

The Institute promotes extension activities and encourages staff members and students to actively involve in social services which improves institution neighborhood community network. The extension activities are to be conducted to bring social awareness of surroundings to our students.

- The college conducts blood donation camp every year, in association with organizations such as Red Cross, Hospitals or other NGOs in which students voluntarily donate blood.
- Free Eye Camp is arranged by the institution in association with an Ophthalmologist organization.

Publicity is given about the eye camp in surrounding areas in advance to make use of eye camp for a free checkup and other assistance.

- Students participate in cleanliness and Swacha Bharat Abhiyan programs, which create social awareness among the students. This activity is conducted in nearby villages. Awareness about health and hygiene is spread among the public.
- Visit orphanage and shelter homes nearby are organized for the students. This visit enables the students to understand the reality and importance of life and inculcate human values.
- As part of environmental awareness, the Institute organizes Tree Plantation.

- A computer training program for rural school students is held.
- The Institution has given employment to the people of surrounding villages in various positions such as gardening, housekeeping, security, maintenance, transport, attenders and cooks in hostel mess, etc.
- Institute has created employment opportunities for teaching and non-teaching staff from neighboring villages.
- Various types of maintenance work such as electrical, plumbing, carpentry, building painting, etc. of the Institution are awarded to local people.
- The institution conducts several programs such as world environmental day, women's day, drug awareness program, etc., and organizes guest lectures on environmental awareness gender sensitization and other social issues from eminent persons.
- The Institute invites the members of the public to participate in all its reach out activities. Management is giving fee concession to meritorious students from nearby villages.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 6

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

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	1	1	1

File Description	Document
Number of awards for extension activities in last 5 year	
e-copy of the award letters	
Any additional information	

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

Response: 18

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

2018-19	2017-18	2016-17	2015-16	2014-15
7	6	2	2	1

File Description	Document
Reports of the event organized	
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	
Any additional information	

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 16.26

3.4.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
183	107	107	126	120

File Description	Document
Report of the event	
Average percentage of students participating in extension activities with Govt or NGO etc	
Any additional information	

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 12

3.5.1.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
1	2	3	4	2

File Description	Document
e-copies of related Document	
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	
Any additional information	

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 16

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**

2018-19	2017-18	2016-17	2015-16	2014-15
6	1	3	5	1

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	
Any additional information	

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The Vijaya Vittala Institute of Technology is strategically located near Hennur-Baglur Main road, which is an alternate International airport road (New Airport Road). The college is located well within Bengaluru, Silicon city of India. The college has a lush green campus spread across 5.025 acres. Separate hostel blocks are provided for boys and girls inside the campus. Amenities like a mess, playground for outdoor games, gymnasium and Indoor sports complex are made available within the campus.

The Institute has a policy of establishing the required infrastructural facilities as per AICTE and VTU norms to facilitate effective teaching and learning. All physical facilities like classrooms, seminar halls, laboratories, tutorial facilities, R&D centers are satisfying the curricular and co-curricular requirements. Round the clock security is provided to the hostel and campus. The college has a hygienic canteen and mess facility. The placement and training cell is well established with GD, Interview rooms and seminar halls. The College is having a computer center with LAN connected systems. Further, Wi-Fi facilities and licensed software are also available. The Institute has well equipped and spacious Auditorium/seminar halls. The Institute has made provision to create extra infrastructural facilities to meet the changes in the curriculum, student strength and introduction of new courses.

The various infrastructural facilities on the campus are as follows.

- Physical facilities like Buildings with Classrooms, Laboratories, Seminar Halls, Staff rooms, R&D centers, Restrooms, etc. All these facilities are constructed as per AICTE norms with proper lighting and ventilation facilities and spacious corridors for free movement of the students.
- The Institute has a sufficient number of classrooms for smooth conduction of theory classes and University examinations. Some classrooms have ICT facilities.
- Each department has a separate R&D center that facilitates research activities.
- Laboratory equipment/machines and devices are provided and upgraded based on the changing curriculum and intake.
- Every department has computer labs as per the curriculum with sufficient computers of proper configuration. All the computer laboratories are using appropriate licensed or open-source software.
- The library has an adequate number of books to cater to the needs of students and staff with the spacious reference section, reference section for journals in print form, newspaper, general periodical section, and reprographic section. A digital library is made available to access e-Books & e-Journals such as IEEE, Springer, Elsevier, etc.,
- Two seminar halls of 200 seating capacity with projectors, conference cam and audio facility serves for technical presentations.
- All classrooms, laboratories, and corridors are under CCTV surveillance. This facilitates for maintenance of discipline, smooth conduction of tests and exams and monitoring classes.
- Wi-Fi infrastructural facility is provided and strengthened every year continuously.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The Institution has provided adequate facilities for Sports, Games (indoor-outdoor), Gymnasium, Yoga Center, etc., and cultural activities for the students

- **Sports, outdoor and indoor games, gymnasium and yoga:**

Students are encouraged to participate in outdoor and indoor games. The Institution has well-trained boys teams in football, basketball, cricket, throw ball etc., and well-trained girls teams in badminton, throwball, basketball, etc., Spacious fields to play the above-said games are available. Institute playground is also used to conduct athletics such as running race, Long jump, High jump, Shot put etc., A well equipped indoor sports complex to play indoor games such as table tennis, chess, carom, etc, for both boys and girls is available. A well trained and qualified physical Education director is available for guiding and training the student in the sports activities. Interdepartmental level sports competitions are held every year and winners are awarded prizes on the Annual day. The Institution also encourages students to participate in outdoor and indoor games on different platforms like intracollegiate and intercollegiate competitions. The Institution also has organized sports competitions in both outdoor and indoor games at the University level. A separate gymnasium hall accommodating Treadmills, Weight lifting tools, Cycling equipment, Multi gym Facility, etc., is available for the students. Students utilize all the above facilities regularly during the evening and in their free time under the supervision of the physical education director. Yoga and meditation are conducted for students to maintain physical and mental fitness at frequent intervals. During the induction program, students are exposed to yoga and meditation by visiting "Tapovana", a nearby spiritual ashram. Institute celebrates International Yoga Day on June 21st every year to stress the significance of yoga in one's life.

- **Cultural activities:**

Institute has a Cultural Club, which encourages the active participation of the students in cultural events. The institution organizes inter-class cultural competitions at regular intervals. Cultural competitions such as classical music, classical and film songs, classical/western dance, cooking without fire, Rangoli, Mehendi, Ekkebana, painting, Fashion show, Collage, etc. are conducted and prizes are awarded to winners and runners on the Annual day function. Students are also encouraged to participate in the Cultural Fest competitions organized by other Institutions. The institution also organizes Ethnic day, Onam and Ganesh Utsav celebration. Ayudha pooja is celebrated in every department during the Dasara festival. Every year our students from Arunachal Pradesh celebrate their cultural fest "NYOKUM YULLO" on the college ground during the month of February. Students are permitted to take part in the cultural competitions organized by the University or other colleges. The Institution also has various talent development clubs such as music clubs, photography clubs, etc.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. *(Data for the latest completed academic year)*

Response: 17.14

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 6

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View Document](#)
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 12.18

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
0	44.16	40.38	33.88	28.56

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	[View Document](#)
Upload audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Library Automation: The Library has been automated through the Licensed Library Management Software

Package "Easy-Lib: All the transactions are being carried out through the following barcode interface facility that has:

Total Number of Computers: 26

Total No. of Printers: 01

Internet Bandwidth: 30 Mbps

Electronic Resource Management Package for e-Journals: Library has subscribed to the VTU consortium. It is an online platform and it acts as a package. All the e-resources Subscribed through VTU consortium have been integrated into the online portal that IEEE, Springer, ASME, ASCE, Taylor and Francis, Digital Library.

Institutional Repository: The Institutional repository has been created with Digital Library open-source software to access freely downloaded e-books, Question papers and faculty publications along with UG and PG course syllabus.

Resource sharing Networks: College library is a member of the VTU Consortium.

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

LIBRARY HOLDINGS

Total No. of Titles: **1995**

Total No. of Titles for SC/ST: **225**

Total No. of Volumes: **9374**

Total No. of Volumes for SC/ST: **796**

Departments		No. of collection		
		Titles	**Volume**	
UG	Mechanical Engineering	360	1821	
	Civil Engineering	344	1691	
	Electronics &communication	368	1689	
	Computer Science	395	1749	
	Basic Science	392	1912	
	Total	**1859**	**8862**	

	M.Tech (Machine Design)	55	182	
	M.Tech (Computer Integrated manufacturing)	07	15	
	M.Tech (Structural Engineering)	13	66	
	M.Tech (Construction Technology)	09	43	
	M.Tech (VLSI Design & Embedded systems)	11	21	
	M.Tech (Signal Processing)	03	09	
	M.Tech (Computer Network Engineering)	38	176	
PG				
	Total	**136**	**512**	
Grand Total		**1995**	**9374**	

1. E-Journals: Subscribed under VTU consortium

Subscription of E-journals	
1	IEEE (CS & E&E)
2	Springer (CS, E&C, Mech)
3	ASCE
4	K-Nimbus
5	Proquest (management & Technology collections)
6	Taylor & Francis

1. No of back volumes: **45**

2. Working hours of the library: **9:00 A.M. To 4:30 P.M.**

3. Library Internet facility: **Yes**

4. CD / DVDs: **120 CD / DVDs**

5. Audio-Visual Cassettes: **01**

6. NPTEL facility in the library: **Yes**

7. Library Membership: **01**

8. VTU consortium

  Under the VTU Consortium facility provided by the University number of e-journals available are 1681 and the number of e-books available is 11,111.

8. **LIBRARY AREA & CAPACITY**

1. Library Dimension: Total area of library = **476 sqm**

2. Seating capacity of the library: **75 seats**

LIBRARY FACILITIES

1. SC & ST Book Bank facility
2. Internet facility
3. Departmental Library facility
4. Digital Library facility

LIBRARY SERVICES

1. Reference Services

2. Circulation Services

3. Audio-Visual Services

4. Internet Browsing Services

File Description	Document
Upload any additional information	[View Document](#)
Paste link for Additional Information	[View Document](#)

4.2.2 The institution has subscription for the following e-resources

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases
6. Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	[View Document](#)
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	[View Document](#)

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 3.86

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
1.88287	2.59248	1.93431	2.92899	9.94619

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	[View Document](#)
Audited statements of accounts	[View Document](#)
Any additional information	[View Document](#)

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the last completed academic year

Response: 10.42

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 80

File Description	Document
Details of library usage by teachers and students	[View Document](#)
Any additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Vijaya Vittala Institute of Technology was started in the year 2009 and has completed 10 years successfully. Each department has a well equipped IT infrastructural facility. A number of computer labs as per the VTU syllabus are provided in each department with an adequate number of computers. The Institution plans for the up gradation in IT infrastructure as and when University upgrades the syllabus. The software's, either open source or licensed are used depending on the syllabus requirement. The Institution also upgrades the computers for the latest configuration. Computers in labs are connected with LAN, facilitating for sharing data and resources, conduction of online exams and for placement activities. All the staff rooms are provided with internet connectivity. Electronic boards and embedded systems are timely upgraded. The Institution has provided a Digital library that is used for referring and downloading e-

journals, e-books, NPTEL resources, etc.., for research projects, certification courses, and others.

VVIT campus is a Wi-Fi enabled campus. The students and faculty members can avail Wi-Fi internet connection protected with a FireWall at any place in the college, hostel & canteen. The connectivity through Wi-Fi, enables students to access e-mail, net surfing, to upload or download web application, besides helping them in preparing projects & seminars. The use of the internet is monitored and user-based policy is applied for Students and Staff by restricted access to the various web sites using a FireWall. Internet bandwidth is updated depending on the requirement.

University has arranged a unique program, e-SHIKSHANA through which live classes are conducted on specific subjects by eminent professors. Students can interact with professors to clarify their doubts. Live conferences/meetings are arranged with University officials. A conference cam, notepad, laptop, projector, etc., are available for this purpose in the institution.

University is delivering SEE question papers online, just before the exam to maintain confidentiality in the exam process. Infrastructure for Question Paper Delivery System (QPDS) such as a computer system and printers are provided by the college.

CCTV surveillance is provided for all classrooms, laboratories, corridors, canteen, parking areas and hostels to maintain general discipline and for smooth conduction of examination.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response: 3:1

File Description	Document
Upload any additional information	[View Document](#)
Student – computer ratio	[View Document](#)

4.3.3 Bandwidth of internet connection in the Institution

Response: B. 30 MBPS – 50 MBPS

File Description	Document
Upload any additional Information	[View Document](#)
Details of available bandwidth of internet connection in the Institution	[View Document](#)

4.4 Maintenance of Campus Infrastructure

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

Response: 35.88

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

2018-19	2017-18	2016-17	2015-16	2014-15
162.58180	90.48504	110.84586	99.39575	77.79106

File Description	Document
Upload any additional information	[View Document](#)
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	[View Document](#)
Audited statements of accounts	[View Document](#)

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:

The Institute has a policy of establishing the required infrastructural facilities as per AICTE and VTU norms to facilitate effective teaching and learning. VVIT has established systems and procedures for maintaining and utilizing physical, academic and support facilities – Laboratory, Library, Sports Complex, Computers, Class Rooms, etc.,

The various infrastructural facilities which are developed and planned are as follows.

- Physical facilities like Buildings with Classrooms, Laboratories, Seminar Halls, staff rooms, R&D centers, restrooms, lifts, etc., are established. The facilities are constructed as per AICTE norms with sufficient light & ventilation and corridors for free movement of the students. Ramps and wheelchairs are provided for differently-abled students.
- Laboratory equipment, devices, computers, and related software are procured in a systematic way and upgraded based on the changing curriculum and intake.
- The library caters to the needs of students and staff. The library has a spacious lending section, reference section for journals in print form, newspaper, and general periodical section, Digital library section for e-Journals and e-Books and reprographic section.

- Wi-Fi infrastructural facility is being updated as per the requirement.
- The campus has many trees, a well-maintained garden, rainwater harvesting, vehicle parking, etc.
- Supporting facilities like Hostel blocks, canteen, transport, indoor and outdoor game facilities, Gymnasium, Generators & UPS, CCTV facilities, etc., are established.

Utilization and Maintenance of Laboratory:

The Institution has established all the laboratories as per the VTU syllabus. Labs have a faculty in-charge, whose responsibility is to maintain the stock books, initiate the purchase of new equipment, calibration of equipment, repair, and servicing of equipment. Generally, 15 to 20 students are allocated for each batch and labs are conducted efficiently as per the time table. Labs are also utilized for final year project work, consultancy work and research & development works.

HoDs are entrusted with the responsibility of preparing the budget of their department taking into account all the requirements. The budget is prepared in consultation with the principal. The prepared budget is presented to the management for approval. Once the budget is approved, a minimum number of three quotations are received from different Vendors. Based on the quotations comparative statement is prepared and the purchase order is issued.

A stock book for each lab is maintained which includes details of equipment such as Name, Quantity, Make, Cost, Date of purchase, etc., Lab equipment are properly maintained by recording in weekly and monthly maintenance register. Equipment, which need to be calibrated, is initiated, followed and executed by the staff in-charge in consultation with HoD.

Utilization and maintenance of library:

The Institution's main library has adequate volumes of books in lending and reference sections. A logbook is maintained for the proper utilization of the library. Each student can borrow three books for 15 days and later books can be renewed or exchanged. SC/ST book bank facility is available. A digital library comprising of 30 computers enables staff and students to refer VTU Consortium journals and e-books, in addition to browsing for project work, R&D work or any other information. The library has a reprographics facility which is used by staff and students. The reference section of the library includes textbooks, reference books prescribed by the University, print copy of journals, project reports, lab manuals, University question papers, and daily newspapers and periodicals. Technical data handbooks, BIS codebooks, chats, Datasheets, IRC codebooks and other books used for examination are available in the library.

Our College library has an advisory committee consisting of one of the HoDs as chairman, Senior Faculty as members, Librarian as member secretary and Principal as convener. Library advisory committee meets twice in each academic year. The committee looks into the requirement of books and Journals received from the staff and students through the HoDs of all the departments. Budget allocation for purchase of books, identifying authorized book publishers and suppliers, receiving quotations and placing orders for purchase with the approval of the management, comes under the purview of the committee.

Apart from the main library, each department has its own departmental library. The staff and students can also avail the books through the departmental library in addition to the main library.

Utilization and maintenance of sports complex:

The Institute has a playground for outdoor sports, an Indoor sports hall for playing indoor games and a well-equipped gymnasium to maintain physical fitness. A well trained and qualified physical Education director is available for guiding and training the student in the sports activities. The physical education director maintains the sports facilities. He also submits requirement proposals, if any, to the principal for the purchase.

Utilization and maintenance of Computers:

Adequate numbers of computers are provided in the campus for the purpose of Laboratories, Administration, Browsing, R&D Center, Library and Departmental usage for Faculty. Departmental computers are used by the faculty to upload course materials and update IA marks, Attendance, etc., in the Student Information System (SIS) through eGurukul Software.

Computers are also used as ICT, for technical presentations by staff and students. Computers are also utilized for conducting placement and training activities and online examinations.

The Institution upgrades the computers for the latest configuration. Academic and industry-specific software is upgraded as per the requirement. Computers & computer peripherals are serviced periodically.

Utilization and maintenance of Class Rooms, Seminar Halls, Staff Rooms, UPS, Generator, Lifts, Hostel Blocks, Office, Rest Rooms, Gardens, etc.,

A sufficient number of classrooms are provided with proper ventilation & lighting to conduct classes as per academic requirements. Two seminar halls of each 200 seating capacity with audiovisual facilities are available. Uninterrupted Power Supply (UPS) and a Generator are provided for the computer systems and other sensitive equipment to avoid damage to the data and equipment. All the departments in the college, boys and girls hostel blocks are provided with UV+RO water purifiers.

Every day premises of the institute including the garden are well maintained by the housekeeping team.

UPS, Generator, water purifier and Lift are maintained by annual maintenance contract (AMC).

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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 last five years

Response: 25.17

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

2018-19	2017-18	2016-17	2015-16	2014-15
303	182	178	105	220

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	[View Document](#)
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 2.02

5.1.2.1 **Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
17	17	12	17	18

File Description	Document
Upload any additional information	[View Document](#)
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	[View Document](#)

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

    1.Soft skills
    2.Language and communication skills
    3.Life skills (Yoga, physical fitness, health and hygiene)
    4.ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 10.49

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

2018-19	2017-18	2016-17	2015-16	2014-15
75	92	99	83	73

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

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

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

Response: A. All of the above

File Description	Document
Upload any additional information	
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	
Details of student grievances including sexual harassment and ragging cases	

5.2 Student Progression

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

Response: 50.23

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

2018-19	2017-18	2016-17	2015-16	2014-15
75	92	99	83	73

File Description	Document
Upload any additional information	
Self attested list of students placed	
Details of student placement during the last five years (Data Template)	

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 28.06

5.2.2.1 **Number of outgoing student progression to higher education during last five years**

Response: 39

File Description	Document
Upload supporting data for student/alumni	
Details of student progression to higher education (Data Template)	

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 42.35

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

2018-19	2017-18	2016-17	2015-16	2014-15
5	7	8	4	3

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

2018-19	2017-18	2016-17	2015-16	2014-15
15	13	17	10	8

File Description	Document
Upload supporting data for the same	
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	

5.3 Student Participation and Activities

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

Response: 2

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	2	0	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	[View Document](#)
e-copies of award letters and certificates	[View Document](#)
Any additional information	[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The Institute has provided an environment for the students to involve and represent themselves in various Academic & Administrative activities. Department identifies two students as class representatives. These representatives work as a bridge between students and HoD/Principal/Management. Department receives feedback on academic and other matters such as portion coverage, level of teaching, availability of books in the library, conduction of lab, maintenance of classrooms, etc., from class representatives. HoDs take remedial measures if required on the feedback. Apart from class representatives, many students work in different committees formed at departmental and college levels as members of committees. The Institution has different committees for various activities such as departmental forums, anti-ragging committee, sports committee, cultural committee, anti-sexual harassment committee, Magazine committee, etc. student members are guided by the respective faculty coordinators of each committee.

Each department has a Forum, a platform through which many activities such as technical talks, industrial/ field visits, competitions like quiz, debate and other technical and nontechnical activities. Student members take an active role and responsibility in all these events.

In addition, students are managing very well on their own, several clubs formed to nourish the talents in the students such as Photographic club, music club, science club, Dharitri, Yantric, Technobits, etc. The Institution liberally provides financial assistance to all the above-said student activities.

Students take initiative in arranging and conduction of festivals/celebrations such as Independence Day, Republic Day, Teachers' Day, Engineers' Day, World Environmental Day, Gandhi Jayanthi, Ayudha

Pooja, Ganesha Chaturthi, Onam, Nyokum Yullo, Fresher's day, Ethnic Day, Cultural Day, Sports Day and Annual Day.

Students also represent themselves in activities related to social responsibilities such as Swachh Bharath Abhiyaan, Blood Donation, Tree plantation, etc., Students are involved in organizing Workshops, Conferences and Guest Lectures.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response: 2

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
2	2	2	2	2

File Description	Document
Report of the event	[View Document](#)
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	[View Document](#)

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

VVIT has been established in the year 2009. The first batch of the students has been passed out in the year 2013. The Institute has a long way to go to have good qualitative and quantitative alumni to work effectively, get the benefits towards the Alma mater. However, the Institute has defined the objectives of alumni association formed the association and carrying out activities of the association.

Objectives of the alumni association:

- To serve as a forum to promote and foster relationships among the alumni, the present students, the staff and the management of VVIT.
- To help the Institution, in its effort, to achieve its vision.
- To arrange expert technical and motivational lectures by eminent alumni for the benefit of students.
- To actively involve the alumni, in arranging campus recruitment programs at VVIT.
- To institute scholarships, prizes/medals, etc, for the deserving students of VVIT.
- To organize periodical alumni day celebration.
- To contribute towards the improvement of department library, R&D and entrepreneurship with the help of alumni.

Institute has registered the Alumni Association which comprises of President, Secretary, Treasurer, and members. The committee organizes Alumni meet once in a year. The Alumni committee will be in touch with all alumni members through Phone, e-mail and other social media such as Facebook, WhatsApp, etc. All outgoing students of the college automatically become life members of the Alumni Association. Alumni participate in Alumni meet to interact with the Institution, department and present students and also furnish updated information with regard to their career progress, change of address, etc. Usually, Alumni meet is conducted in the month of May, every year. College Alumni association interacts with alumni who are in good positions in the corporate sectors to deliver technical talks, arrange for Field/Industry visits, etc., to improve the employability of students.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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

Response: E. <1 Lakhs

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Response:

Vision

Emerge as a premier institute in offering technical education and research opportunities to meet the growing technological needs of the society.

Mission

M1 :To provide holistic learning ambiance for modern education in engineering blended with ethical values.

M2   :To promote all-round personality development and enhance career opportunities through interaction with alumni, academia, and industry.

M3 :To inculcate a research culture leading to innovators and entrepreneurs

The top management of VVIT is committed to fulfilling the stated mission of imparting superior engineering education to students by providing all the necessary infrastructure, manpower, and financial funding and thereby progressing towards its long term vision. The leadership of the Institute comprising the VVIT trust members and the principal regularly takes stock of the various activities of the institute and implements any necessary actions required to ensure, that they are in line with the mission statement.

The formulation of an action plan for the various operations of the Institute is prepared by the Principal and the Heads of the departments. The execution of the action plans is done by different committees. The schedule for academics and co-curricular/extra-curricular activities is chalked out well before the commencement of a semester.

The Principal and HoDs regularly take stock of the needs of the Institute and consult the management for any requirement to change the existing policies and for future planning. The management and faculty of the Institute are updated to improve pedagogical methods and processes.

The stakeholders of the Institute are students, alumni, parents, and staff. The interaction with these stakeholders is an essential process for achieving the mission of the Institute. The meetings are conducted with the stakeholders and suggestions are incorporated for continuous improvement of the academic, administration and placement activities.

The board of trustees has reputed academicians and educationists, who champion any progressive change that will take the organization to the next level in its pursuit of excellence in imparting knowledge to the students.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

Departments of the Institution are given full academic autonomy and administrative autonomy.

- Academic related matters such as attendance of students, the setting off internal test question papers, conduction, and evaluation of internal test and design and development of question banks are carried out by the department.
- Leave related matters, allocation of the subject, preparation of course material, monitoring syllabus coverage, counseling, arranging special classes for slow learners, etc., are carried out independently by departments.
- Departments are provided with full autonomy to plan and organize workshops, conferences, seminars, industrial visits; institute-industry interaction, etc. Budgets prepared by the departments for the above said activities are generally approved by the Principal and the Management.

- Appointment of teaching and non-teaching staff and promotion/increment of employees is carried out by the departments in consultation with the Principal and the Management.
- Departments are given autonomy to prepare the estimates for future expansion which includes infrastructure, laboratory equipment, computers, furniture, manpower requirement, etc.

The Institute follows Participative management at different levels as indicated below.

- The principal is a member of the Governing Council at the management level in addition to the members represented from University.
- Several meetings are conducted by the Principal with HoDs to make decisions in the academic and administrative matters such as conduction of CIE /SEE/ AAT, Conferences/Workshops/Seminars, purchase of equipment, budget allocation, etc,.
- Principal, Office superintendent, and Account's officer manage administration, finance, and maintenance of files.
- Co-ordinator/Chairman/Conveners of various committees such as time table, test/CIE, anti-ragging, discipline monitoring, women's welfare, grievance redressal, sports, cultural, magazine, institution-industry interaction, quality monitoring in canteen and mess, campus maintenance, transportation, SCST/OBC cell, and counseling, are chosen from the level of HODs, senior Professors and Associate Professors. Members of the above said committees are chosen from the staff and students.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Vijaya Vittala Institute of Technology was established in the year 2009, by Sri Vijaya Vittala Charitable & Educational Trust (R). The Institution is affiliated to Visvesvaraya Technological University, Belagavi. The Institution, in the beginning, had four undergraduate programs (UG) namely Mechanical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering with an intake of 60 each. In the year 2013, intake of Mechanical Engineering was enhanced to 120 and in the year 2014, the intake of Civil Engineering was increased to 120. Postgraduate Program (PG) of Structural Engineering was started in the academic year 2011-12. Contraction Technology and Machine Design PG programs were introduced in the academic year 2012-13. Computer Integrate Manufacturing and Signal Processing PG programs were started in the academic year 2013-14. PG programs, Computer Network Engineering and VLSI Design & Embedded Systems were begun in the academic year 2014-15. Computer Science & Engineering and Electronics & Communication Engineering departments were recognized as Research centers by VTU in the academic year 2017-18. Mechanical Engineering Department was recognized as Research centers by VTU in the academic year 2018-19.

New programmes introduced were planned well in advance. The background work, its pros, and cons, the requirement of infrastructure facilities, new equipment required, manpower requirements were thoroughly looked into before taking up the implementation of new programmes. An increase in the intake of students for the existing programmes was also planned well in advance and accordingly requirement of infrastructure facilities, new equipment required, manpower requirement was enhanced. Sir M. Visvesvaraya seminar hall and Prof. K. Venkatagiri Gowda seminar hall of 200 seating capacity each, became functional in the year 2013 and 2017 respectively. An additional Boy's hostel block was inaugurated in the year 2016. Institute has well established Indoor Sports Complex with a well-equipped gym facility.

An effective teaching-learning process is in place. Calendar of Events is prepared before the commencement of each semester separately for the department and the college. All academic & co-curricular activities such as CIE, assignments, workshops, fields/industrial visits, technical talks, sports & cultural days and parent-teacher meet (PTM) are conducted as per the calendar of events. Class teacher files and lesson plans are regularly monitored by the HoD and Principal for the satisfactory coverage of syllabus, attendance and CIE marks. Counselors informed the parents about the performance of CIE and the attendance of their wards. eGurukul software is used as a student information system (SIS). Weak students are counseled by the counselors to improve their performance. Remedial classes are arranged for slow learners by the department.

Memorandum of Understanding (MoU) with reputed industries/companies have been made for good industry-institute interaction. Students are being trained by these industries in specific areas such as Java,

CAD, Revit Structures, CATIA, Fusion 360 and other soft skills including aptitude in order to prepare the students for better placement opportunities.

Faculty members are encouraged to pursue higher studies and to participate in various faculty development programs, workshops, seminars, conferences, etc to enhance their knowledge.

File Description	Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Response:

The institute was established in the year 2009, by Sri Vijaya Vittala Charitable & Educational Trust(R). Governing Body is the supreme policy-making and policy implementing mechanism of the college.

Governing Body:

Sl. No.	Name of the Member	Designation
1	Dr. Krishnaprasad T	Member
2	Dr.Rajendra S	Ex-Officio (Principal)
3	Dr. Laksmana Reddy	Member
4	Dr.N R Shetty	Member
5	Dr. Muralidhar Rao	University N
6	Dr. Shivaprakash T	Member

| 7 | Mr. K Thyagaraj | Secretary |
| 8 | Dr. Venugopal K R | Member |

The Administrative set-up is headed by Principal and is supported by R & D Dean, HoDs, Teaching & non-teaching staff, Administrative staff, Account staff and maintenance staff and Officers support for Administrative functions.

Functions of Major Committees:

SL. No.	Name of Body/ Committee	Major Functions
1	Governing Body	- Scrutiny and approval of the Annual Budge - Identify the need for buildings, initiate the construction. - Oversee need for starting of new programm - Receive the inputs from principal and HoD development, computational facilities and u - Approval of new recruitments.
2	Internal Quality Assurance Cell (IQAC)	IQAC advises on the following issues. - Improvement in academics - Improvement of skills and knowledge - Research and consultancy
3	Anti-Ragging Committee	- Display the important factors of anti raggi punishments at important places. - Prevent ragging inside the campus - Report/recommend actions on the students
4	Anti-Sexual Harassment/ women welfare committee	- Receive complaints from girl students or st - Deal with the issues of Gender based viole - Conduct gender sensitization programmes.

5	Library Committee	• Receive requirements for new titles/books • Strengthen the Digital Library
6	Examination Committee	• Finalize the schedules of internal examinat calendar • Notify schedules of examination and make to conduct both internal and external exam • Submit the data required to the University declaration of results and issue of marks sta certificates.
7	Training & Placement Committee	• Organize training programmes to improve skills & personality development • Organize placement drives
8	Grievance Redressal Committee	• Address grievances regarding the academic hostel, transport, canteen etc.
9	SC/ST & OBC Committee	• Address problems and provide awareness r available for students and staff.
10	Industry –Institute Interaction Cell	• Create a bridge between industry & acaden activities such as Industrial/Field visit, Tec

Service rules are established in the Institution defining every parameter of service-related issue. The service rules are updated from time to time depending on the changing norms by statutory bodies or special inclusions as suggested by Governing Council of the organization. The Service rules are laid down detailing procedures governing recruitment, leaves, confirmation, disciplinary actions, resignation and retirement for Faculty and Staff.

File Description	Document	
Paste link for additional information	View Document	
Link to Organogram of the Institution webpage	View Document	

6.2.3 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	[View Document](#)
ERP (Enterprise Resource Planning) Document	[View Document](#)
Details of implementation of e-governance in areas of operation, Administration etc	[View Document](#)

6.3 Faculty Empowerment Strategies

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

Response:

Following are the welfare measures adopted for teaching and non-teaching staff in the Institute

- The Institute has provided uniforms for all non-teaching staff members of different categories such as Forman, Instructors, Attenders & supporting Staff such as Drivers, House Keeping Staff, Security Personnel, etc.,
- In order to cover the risk against accidents and health, the Institute has provided a group insurance facility for teaching and non-teaching staff members.
- The Institution has provided maternity leave to lady staff members. After availing the maternity leave the staff member reports back to the duty.
- All staff members are encouraged to pursue a doctoral degree. Special casual leaves are sanctioned for the research work, attending course work examination, comprehensive viva-voce, colloquium, etc.,
- Staff members are motivated to participate in workshops, conferences, seminars, etc., in reputed institutions by providing special leaves.
- Staff members are motivated to present papers in national & international conferences, in reputed institutions by providing special leaves.
- The facility for accommodation for teaching & non-teaching staff is available on the campus.
- Vacation facility is provided for teaching and non-teaching staff during the semester break.
- Transport Facilities are provided for teaching and non-teaching staff at a nominal transportation fee.
- Employee Provident Fund (EPF) facilities for teaching and non-teaching staff members.
- Gratuity fund facility is provided.
- Relaxation in working hours is provided for staff in times of need.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

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: 0

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	00	0	0

File Description	Document
Upload any additional information	[View Document](#)
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	[View Document](#)

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: 9.4

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

2018-19	2017-18	2016-17	2015-16	2014-15
12	10	7	9	9

File Description	Document
Reports of Academic Staff College or similar centers	[View Document](#)
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	[View Document](#)

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 2.94

6.3.4.1 **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	1	0	2

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The Head of the Institution circulates a self-appraisal form to each staff member and asks them to give an honest self-appraisal. Appraisals submitted by both Teaching and Non-Teaching staff members are analyzed and considered for better performance.

Performance Appraisal of the faculty is done with various parameters like student Feedback, Examination results

1. **Attitude towards Self Development**: Membership in professional bodies, Training/Workshop attended, FDP attended, Conference attended.
2. **Contribution to Student Performance**: Performance in the subject handled, Mentoring the students, Additional responsibilities like a class teacher, assisting the students for placement and higher studies, Guidance for innovative projects.
3. **Contribution towards department:** Workshop, Conference, FDP organized, Guest Lecture arranged, Seminar arranged, Industrial visits arranged, other responsibilities.
4. **Contribution towards R& D**: Number of publications, Sponsored Projects, Consultancy, Patents applied

Quality-Related activities: Guest lecture given outside, Interactions with the outside world, Research guidance.

After reviewing the details filled by the employee, the HOD puts his/her remarks and forwards the same to the Principal who will then discuss the strength and weaknesses with the staff. The above feedback is presented before the management.

Performance appraisal for non-teaching staff is conducted through the respective HoDs of the Departments to increase the performance.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

VVIT is a self-financed institution. Different financial sources available are.

- Fees collected from students.

- Funding from different funding agencies such as VTU, VGST, KSCST, and Institute of Engineers.
- Contribution from the management.

The management has been spending a huge amount of money to develop the required infrastructural facilities such as buildings for various departments, administrative block, laboratory equipment, ladies and boys' hostel building, buildings for a library, canteen, and sports.

As applied to recurring expenditure, the Institution depends on the fee collected from students for its routine expenses such as salary of teaching and non-teaching staff, maintenance of building and equipment, etc, Any balance amount is credited to the corpus fund of the institution.

A number of students have been given fee concession by management and the amount of concession given is borne by the management to encourage the poor, needy and meritorious students to pursue their engineering studies.

To ensure that finances allocated to different facilities/activities in the institution are being used properly, the management has appointed qualified internal auditors and experienced staff to monitor the effective and efficient use of financial resources. The audit of accounts and submission of income tax returns are being carried out regularly each year. The last audit was done for the financial year 2018-19. Every year the college has received Acknowledgement from the Indian Income Tax Department. There are no pending audit objections from the Income Tax Department as of now. There are no pending objections related to Tax, Interest, TDS, etc.., from the Indian Income Tax Department till today.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the

last five years (not covered in Criterion III)

Response: 0

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	[View Document](#)

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

Response:

The major source of income is the collection of fees from students. As the Institution is at present self-financing type, even if any deficit arises it will meet funds from the society and from the management.

Proper utilization of financial resources is planned at the beginning of every financial year. The budget details for every year are collected before the starting of the academic year. The utilization of the current year the expenses and the budget for the next year are approved by the management. The Finance department takes care of the collection of fees. The collected amount is appropriately used for routine expenses such as salary of teaching and non-teaching staff, maintenance of building and equipment, Research & Development, etc,

The faculty, based on their areas of expertise, submits research proposals to funding bodies like AICTE, UGC, DST DBT, BIRAC, KSCST/VGST (GOK), etc. The proposals after due scrutiny by the peer bodies will be called for presentations and further, selection would be granted needful financial support from these reputed agencies. Further, after the successful completion of the project, audited statements of accounts, complete reports, and the utilization certificates are submitted to the funding bodies.

Funds are also sought from external sources (Government bodies and private sponsors) for conduction of theme-based conferences/workshops/seminars etc.

File Description	Document
Upload any additional information	[View Document](#)
Paste link for additional information	[View Document](#)

6.5 Internal Quality Assurance System

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

Response:

Internal Quality Assurance Cell is constituted in the Institution. The IQAC is headed by the Principal as Chairman and includes HoDs' and Senior Professors as members. The cell conducts meetings from time to time and monitors quality aspects in the institution. IQAC advises mainly on improvement in academics, skills & knowledge and Research.

Two practices institutionalized as a result of IQAC initiatives are as follows:

    1. Students Counseling System

The Institute has adopted an effective counseling system developed by IQAC. A group of 15 to 20 students is assigned to a particular teacher who has to counsel a student in a systematic way. The counselor maintains a progress report for each student. Progress report contains all personal, academic, curricular and other details of the student. Generally, faculty handling the subject will be assigned as a counselor for a student. The IA marks and attendance details are available in the Students Information System (SIS). The student performance is sent to parents through SMS/by making phone calls/E-mails. The Institute regularly organizes Parents-Teachers Meet where parents can interact with counselors and course teachers about their ward's performance. Performance Evaluation of students in the examination/SEE is carried out and special Coaching classes are held for the benefit of weaker students. Students who are at the risk of drop out are given special attention and are advised by the counselors to give maximum importance to critical subjects to prevent them from being detained. Counselors can identify and discuss academic or non-academic matters with the students and help for better performance.

2. Industry–Institute Interaction

Institute has a good Industry–Institute Interaction policy conceived by IQAC to create a bridge between industry and Institute. VVIT has MoUs with reputed organizations/ Industries, which enables both staff and students to have an exposure to the industry. Institute has MoUs with Autodesk, CADD Center, Seventh Sense, Q-Spiders, As part of MoUs, training on recent software tools employed in the Industry are given to students by professionals from Industry/ organizations. Pre-final year and final year students are trained on CATIA, FUSION 360, REVET STRUCTURES, JAVA, etc. Students are also trained in APTITUDE and soft skills by the industry resource persons. Technical talks, workshops/ conferences are organized as part of Industry Institution Interaction. Further, the Institute also facilitates Industrial / Field visits and Internship programs for students. All these activities of Industry-Institute Interaction strengthen the placement opportunity for the students.

File Description	Document
Paste link for additional information	View Document

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 and recorded the incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Internal Quality Assurance Cell (IQAC) monitors the quality aspects from time to time and advises and takes care of implementation of the same. Following are the two examples

1. Teaching-learning process:

Institute prepares the detailed calendar of events based on the calendar of events provided by the University. The faculty prepares the lesson plan as per the time table and lab manuals based on objectives and outcomes of the course specified in the syllabus at the beginning of the semester. Course files are maintained by faculty which includes calendar of events, time table, students list, syllabus, university question papers, CIE question papers with the scheme of evaluation and course materials. Class teachers are assigned for each section to look after the routine functioning of the classes. Class teachers maintain the class teacher's file which consists of student list, mentors list, time table, number of classes conducted and portion coverage per week, cumulative attendance and CIE marks. Classes are conducted as per the time table and monitored by HoDs and Principal. Class teacher files and lesson plans are brought for the review of HOD and Principal, weekly. Gurukul SIS software is used as a platform for the interaction among faculty, students and parents about attendance, CIE marks, and general information. CIE is conducted as per the calendar of events. Question papers for CIE are prepared to facilitate the attainments of the course outcomes for various courses. Students are encouraged to do an innovative live project related to social, economical and technical advancement. Students are motivated to do research work and present papers in conferences and publish papers in journals.

1. Academic Audit

The academic audit committee is formed by the Principal, which includes HoDs and Senior Professors. The committee visits each department generally at the end of the semester for the inspection. The committee carries out the academic audit of its academic activities such as lesson planning, preparation of course material, preparing question bank, conduction and evaluation of internal test/CIE, counseling, monitoring the student's attendance status and performance in test/CIE, syllabus coverage, conducting semester-end examinations, etc. as per IQAC guidelines. The academic audit committee submits a report and corrective measures are initiated for non-conformities raised by the audit team. In addition, an academic audit of all the academic activities is carried out through an internal audit once in a semester.

File Description	Document
Paste link for additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

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

Response: C. 2 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document
Paste web link of Annual reports of Institution	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

a. Safety and Security

The Institution has a Women Welfare Committee which handles the sensitive issues regarding women's' rights, security, and harassment. Women Welfare Committee is functioning in the Institution to look into harassment and discrimination on girl students and women employees. To ensure a women-friendly learning environment on the Campus, the Institute provides separate hostel for girl students with round the clock security, adequate space like women's' restroom, toilets, etc. The hostel is also provided with an in-house library, Wi-Fi and good sports facility. CCTV cameras have been fixed in prominent places like Hostel, corridors, classrooms, laboratories, canteen, and veranda. Resident lady warden of girl's hostel works as mentors for girl students. The college has an anti-ragging squad team which comprises of both male and female staff who visit the ladies and gents hostels during anti-ragging duty.

In the Institute there is a separate ladies amenities center on the campus which provides the basic facilities for ladies during their stay in the college. The Institution is sensitive to gender equity and parity. Sensitization programs are organized regularly by the women's welfare committee to bring awareness about their rights and also security and safety measures.

b. Counseling

Women Welfare Committee/ Anti Sexual Harassment Committee is constituted which includes the principal, senior women faculty as a convener and other lady faculty as members. The committee receives complaints from the female students or staff of the College. The committee also deals with the issues of Gender-based violence. The committee members counsel the girl students for the problems encountered and give suggestions. Apart from the Women Welfare Committee, the class counselors also counsel the students regularly. They help the students to solve their personal and academic problems to the possible extent. Students will be monitored and counseled on academic performances, attendance, regularity, punctuality, disciplinary matters, safety and security measures, etc. The students are free to meet their counselors at any time to share and discuss their problems.

c. Common Room

The Institute has provided a common room for girl students. The common room has cots, tables and chairs, a napkin vending machine and an attached restroom. The common room has been properly illuminated and ventilated. Students use the common room for studying during CIE/SEE. The students also use the common rooms during their leisure hours to take rest and to have lunch. Girl students may rest whenever they are sick or feel uncomfortable.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	[View Document](#)
Link for annual gender sensitization action plan	[View Document](#)

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	[View Document](#)
Any other relevant information	[View Document](#)

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

Solid waste management:

Solid waste is collected and segregated in two separate bins as dry and wet waste. The Green-colored dustbins are meant for wet and biodegradable wastes. Red dustbins are meant for dry waste, disposal of plastic wrappers and non-biodegradable wastes, papers, and glass bottles. The stored waste is collected by the government's local body at regular intervals.

Dry leaves and plant clippings are collected from the garden area of the Institute. This waste is fed to a shredding machine developed by the Mechanical Engineering Department of the Institute, which converts waste into powder form. This powder is decomposed in the composting pits and converted into organic

manure in a short time and is used for gardening as fertilizer to increase the fertility of the soil.

Solid kitchen waste such as Vegetable waste, waste food, etc., is collected in bins and dumped into pits which are converted into manure.

Liquid waste management:

Liquid waste from Academic and Hostel blocks along with rainwater is disposed into open drains. Waste from toilets is sent to septic tanks which are cleared as and when required.

Biomedical waste management:

The Institution does not deal with any Biomedical materials.

E-waste management:

Electronic waste is e-scrap and e-waste, is the trash generated from surplus, broken and obsolete electronic devices. In the Institute e-waste is in the form of electronic components, devices, electronic boards, monitors, keyboards, CPU, mouse, etc, The computers/devices/equipment are repaired or updated to the extent possible. The college is ten years old, hence e-waste generated is not considerable. The irreparable or obsolete items will be disposed of through e-waste management contractors or vendors for reuse/recycling purposes.

Hazardous chemicals and radioactive waste management:

The Institution does not deal with hazardous chemicals and radioactive materials. Chemicals such as nitric acid and sulfuric acid are used in Chemistry and environmental laboratories. The Do and Don't's are displayed in the laboratories for the attention of students. Care is taken while handling chemicals. The chemicals are disposed of suitably in diluted conditions from the laboratories.

File Description	Document
Link for Geotagged photographs of the facilities	[View Document](#)

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	[View Document](#)
Any other relevant information	[View Document](#)

7.1.5 Green campus initiatives include:

1. **Restricted entry of automobiles**
2. **Use of Bicycles/ Battery powered vehicles**
3. **Pedestrian Friendly pathways**
4. **Ban on use of Plastic**
5. **landscaping with trees and plants**

Response: Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	[View Document](#)
Geotagged photos / videos of the facilities	[View Document](#)

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Response: E. None of the above

File Description	Document
Any other relevant information	[View Document](#)

7.1.7 The Institution has disabled-friendly, barrier free environment

1. **Built environment with ramps/lifts for easy access to classrooms.**
2. **Disabled-friendly washrooms**
3. **Signage including tactile path, lights, display boards and signposts**
4. **Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment**
5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading**

08-02-2021 02:42:50

Response: C. 2 of the above

File Description	Document
Policy documents and information brochures on the support to be provided	<u>View Document</u>
Geotagged photographs / videos of the facilities	<u>View Document</u>

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

Institute organizes and celebrates the following festivals every year from January to December such as

National Youth Day   - 12th January

Republic Day   - 26th January

 Women's Day   - 08th March

 Ambedkar Jayanthi   - 14th April

Mahaveer Jayanthi   - 17th April

 International Blood Donation Day - 14th June

 Yoga Day   - 21st June

 Independence Day   - 15th August

 Teachers Day   - 05th September

 Engineers Day   - 15th September

 Gandhi Jayanthi   - 02nd October

Institute celebrates national festivals such as Independence Day and Republic Day in memory of the struggle for freedom and formation of states thereafter. On the eve of Gandhi Jayanthi, the non-violence approach of Mahathma Gandhiji, father of the nation, to the Indian Independence is recollected. Dr. B. R. Ambedkar is remembered for his role in writing the Indian Constitution. Dr. Sarvapalli Radhakrishnan, a Philosopher, and a Teacher, Ex-president of India are always recognized as a role model for teachers. Dr. Sir M. Visvesvaraya is remembered on Engineers Day for his sincerity, dedication, commitment and contribution to nation-building through his engineering excellence. Youth Day is celebrated to commemorate the birthday of Swami Vivekananda for giving a new direction to the youth. Awareness regarding fitness, cleanliness, gender sensitization, Social Responsibility is spread by organizing activities

during Yoga Day, Swatch Bharath, Environmental Day, Women's Day, Blood Donation, etc., Staff and Students also celebrate national & states festivals such as Dasara, Ganesha Chaturthi, Holi, Kannada Rajyotsava, NyokumYello, Onam, etc.,

The college has students from many states of India viz. Kerala, Tamil Nadu, Andhra Pradesh, Manipur, Arunachal Pradesh, Bihar and students from Nepal and Bangladesh. The students admitted are from different regions, languages, religions, and cultures. The Institution is providing an inclusive environment for all the students i.e., tolerance and harmony towards cultural, regional, linguistic, communal socio-economic and other diversities.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View Document](#)

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

University has introduced the subject Constitution of India and Professional Ethics for all programs. The subject gives an insight into the fundamental rights duties and responsibilities. In addition, the subject Environmental sciences give awareness on the importance of the environment of the earth and its protection. World Environmental day is celebrated to bring awareness about protecting the environment and its importance. Social issues and plantation of trees are given importance in the campus. Smoking and throwing garbage inside the campus are prohibited. The campus is a plastic usage free campus.

Women Welfare Committee is functioning in the institution to look into harassment and discrimination on girl students and women employees if any. Lady Wardens of girl's hostel works as mentors for girl students. To ensure a women-friendly learning environment on the Campus, the Institute provides separate hostel for girl students with round the clock security, adequate space like women's restroom, toilets, etc. The hostel is also provided with in-house

Library, Wi-Fi and good sports facility.

SC/ST Welfare Committee looks after the grievances of SC/ST students. The committee provides awareness about their rights in the constitution, facilities provided by the government for the students including scholarship The college office provides guidance to obtain a scholarship from different bodies.

The college has Service Rules in which the duties, responsibilities, and rights of staff are stated. Institute does not discriminate against the students and staff on the basis of their caste, creed, religion and gender issues.

In order to Sensitize the students and employees of the Institution to the constitutional obligations: values, rights, duties, and responsibilities of citizens, the Institute organizes and celebrates the National festivals

every year. Institute celebrates national festivals such as Independence Day and Republic Day in memory of the struggle for freedom and formation of states thereafter. On the eve of Gandhi Jayanthi, the non-violence approach of Mahathma Gandhiji, father of the nation, to the Indian Independence is recollected. Dr. B. R. Ambedkar is remembered for his role in writing the Indian Constitution. Dr. Sarvapalli Radhakrishnan, a Philosopher, and a Teacher, Ex-president of India are always recognized as a role model for teachers. Youth Day is celebrated to commemorate the birthday of Swami Vivekananda for giving a new direction to the youth. Awareness regarding fitness, cleanliness, gender sensitization, Social Responsibility is spread by organizing activities during Yoga Day, Swatch Bharath, Environmental Day, Women's Day, Blood Donation, etc., Staff and Students also celebrate national & states festivals such as Dasara, Ganesha Chaturthi, Holi, Kannada Rajyotsava, NyokumYello, Onam, etc.,

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	[View Document](#)

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. **The Code of Conduct is displayed on the website**
2. **There is a committee to monitor adherence to the Code of Conduct**
3. **Institution organizes professional ethics programmes for students, teachers, administrators and other staff**
4. **Annual awareness programmes on Code of Conduct are organized**

Response: B. 3 of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	[View Document](#)
Code of ethics policy document	[View Document](#)
Any other relevant information	[View Document](#)

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

Institute organizes and celebrates the following festivals every year from January to December such as

National Youth Day   - 12th January

Republic Day   - 26th January

Women's Day   - 08th March

Ambedkar Jayanthi   - 14th April

Mahaveer Jayanthi   - 17th April

International Blood Donation Day - 14th June

Yoga Day   - 21st June

Independence Day   - 15th August

Teachers Day   - 05th September

Engineers Day   - 15th September

Gandhi Jayanthi   - 02nd October

The Institute celebrates national festivals such as Independence Day and Republic Day in memory of the struggle for freedom and formation of states thereafter. On the eve of Gandhi Jayanthi, the non-violence approach of Mahathma Gandhiji, father of the nation, to the Indian Independence is recollected. Dr. B. R. Ambedkar is remembered for his role in writing the Indian Constitution. Dr. Sarvapalli Radhakrishnan, a Philosopher & a Teacher, Ex-president of India is always recognized as a role model for teachers. Dr. Sir M. Visvesvaraya is remembered on Engineers Day for his sincerity, dedication, commitment and contribution to nation-building through his engineering excellence. Youth Day is celebrated to commemorate the birthday of Swami Vivekananda for giving a new direction to the youth. Awareness regarding fitness, cleanliness, gender sensitization, Social Responsibility is spread by organizing activities during Yoga Day, Swatch Bharath, Environmental Day, Women's Day, Blood Donation, etc., Staff and Students also celebrate national & states festivals such as Dasara, Ganesha Chaturthi, Holi, Kannada Rajyotsava, NyokumYello, Onam, etc.,

File Description	Document
Link for Geotagged photographs of some of the events	[View Document](#)
Link for Annual report of the celebrations and commemorative events for the last five years	[View Document](#)

7.2 Best Practices

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

Response:

BEST PRACTICE-1

1. **Title of the Practice: "Students Financial Support System"**
2. **Objectives of the Practice**

The objectives of the practice are:

- To reduce the financial burden on poor and needy students who are interested in pursuing their technical education.
- To guide SC/ST, OBC and minority community students to obtain financial assistance from Government and private sectors.
- To assist the students to get financial benefits from different sectors like defense, Local municipal councils, other state Governments, Companies, etc.,

3. The Context

State & Central Governments and other organizations have introduced scholarship schemes for different categories of students in the broader perspective of helping the students to obtain technical education and thereby facilitating nation-building.

Institute is offering quality technical education from a decade and has observed that some students with a good academic record and interested in pursuing technical education are experiencing difficulty due to their poor financial condition. They are facing difficulty in paying tuition and other fees, procuring the basic requirements such as hostel facility, books, calculators, Laptops, etc. To reduce the financial burden and enable them to continue their studies, the Institution has implemented this practice.

4. The Practice

The Institute has established a separate section for facilitating scholarship benefits. The Scholarship Section identifies the different sources from where the students can get financial benefits. An awareness regarding different scholarship schemes available for a different section of students such as SC/ST, OBC, Minority, etc. is given to the students. The details about the amount to be received, the last date to be applied, mode of applying, etc., are brought to the attention of students. Office staffs are entrusted with the work of guiding and helping students to secure various types of scholarship, under the supervision and guidance of the principal. The scholarship section ensures that all eligible students for a particular scholarship have filled and submitted their applications online.

The list of students who have applied for the particular scholarship is consolidated and sent to the respective scholarship issuing authorities by the principal. The follow-up action is taken by the office until students get his/her scholarship. Due to any problem, if students do not get the scholarship, the problems are resolved by the scholarship section. In the majority of the cases, the scholarship amount is directly transferred to the beneficiary's account. However, in some cases, it is disbursed through the college.

5% of the students are admitted under Super Numerary Quota (SNQ) which is Zero fee category. For other students who are good at academics, not eligible for any scholarship and financially weak are given fee concessions by the management for their benefits.

5. Evidence of Success

- Scholarships to a tune of about Rs. 6123125 are received by our students in the academic year 2018-19.
- The number of students getting financial benefits through the **Students Financial Support System** is increasing from year to year**.**

6. Problems Encountered and Resources Required

- Creating awareness about the importance of scholarship among students and make them apply for a scholarship.
- Sometimes problems are encountered while applying online.
- Problems encountered are different from one student to another, rectifying the same is challenging.

Recourses required to implement the practice are office staff with the knowledge of different scholarship schemes, computer systems with internet facilities.

BEST PRACTICE-2

1. **Title of the Practice: "Student Counseling System"**
2. **Objectives of the Practice**

The objectives of the practice are:

- To improve teacher-student and Institute-Parent relationship.
- To carry out effective counseling of students to solve their problems and build confidence in them.
- To strengthen the teaching-learning process.
- To guide students to choose a career, higher studies, Entrepreneurship, etc.

3. The Context

The Institution has observed several students being detained/ failing in subjects, for want of academic requirements to achieve vertical progression. Further, many students have dropped out due to a lack of awareness about regulations of the programme, lack of interest in the course, personal problems, social and economical problems. Such issues necessitated the college to implement the counseling system. The student needs mentoring support to achieve academic fulfillment. The system aims at addressing conflicts in attitudes, habits, and knowledge of the students towards learning practices. Several supporting practices are needed to achieve better coordination of lectures, tutorials, and practical classes.

4. The Practice:

Institute has adopted an effective counseling system. A group of 15 to 20 students is assigned to a particular teacher who has to counsel a student in a systematic way. The counselor maintains a progress report for each student. Progress report contains all personal, academic, curricular and other details of the student. Generally, faculty handling the subject will be assigned as a counselor for a student. The IA marks and attendance details are available in the Students Information System (SIS). The student performance is sent to parents through SMS/by making phone calls/E-mails. The details Institute regularly organizes Parents-Teachers Meet where parents can interact with counselors and course teachers about their ward's

performance. Performance Evaluation of students in the examination/SEE is carried out and special Coaching classes are held for the benefit of weaker students. Students who are at the risk of drop out are given special attention and are advised by the counselors to give maximum importance to critical subjects to prevent them from being detained. Counselors can identify and discuss academic or non-academic matters with the students and help for better performance.

5. Evidence of Success

- Student's attendance has improved after counseling by the counselors.
- Direct communications between counselors and students have improved the teacher-student relationship.
- Academic performances of the students have improved.
- Participation in co-curricular and extra-curricular activities has been enhanced as the counselor guides the student about these activities.
- Parent-institution relationship is strengthened and the parents are happy with this practice.
- Students are more disciplined.

6. Problems Encountered and Resources Required

- Whenever there is a staff turn over, training for the new staff to the existing system and effective implementation is difficult.
- Difficult to contact parents of students of other states and countries.
- Parents find difficulty to get information about their wards and contact details of the counselor when the student counselor changes because of staff turn over.

Resources required for the counseling system are Students Information System (SIS) computers and internet facility.

File Description	Document
Link for Best practices in the Institutional web site	[View Document](#)
Link for any other relevant information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Vision

Emerge as a premier institute in offering technical education and research opportunities to meet the growing technological needs of the society.

Mission

M1 :To provide holistic learning ambiance for modern education in engineering blended with ethical values.

M2 :To promote all-round personality development and enhance career opportunities through interaction with alumni, academia, and industry.

M3 :To inculcate a research culture leading to innovators and entrepreneurs

VVIT is affiliated to Visvesvaraya Technological University which as more than 200 technical institutions in its fold. The curriculum is updated frequently by the university to meet industrial needs. But there always exists a gap between the curriculum and the practice adopted in the industries. Due to this gap between industry and institute, students are facing difficulty in their employability and also industries are facing a scarcity of skilled engineers for recruitment. Hence, there is a need to provide skill development in the form of training, internship, workshop, technical talks, real-time projects, etc., to make the student's industry-ready.

The Institution has taken initiative to enhance the employability of students and overcome the above issues. VVIT has adopted several measures such as MoUs with reputed organizations/ Industries, arranging training programs on soft skills and technical skills, organizing workshops/conferences/technical talks, arranging industrial/site visits and carrying out internships/real-time projects.

MoUs with reputed organizations/ Industries has enabled both staff and students to have exposure to the industry. Institute has MoUs with Autodesk, CADD Center, Seventh Sense, Q-Spiders. Students are trained in technical, aptitude and soft skills by the industry resource persons for five years. As part of MoUs, training on recent software tools, used in the Industry are given to students by professionals from Industry/ organizations. Technical training on the 'C' program for Industrial applications was given by Seventh Sense organization for pre-final year students of Computer Science Engineering and Electronics & Communication Engineering. The same organization has also trained students on aptitude and soft skills for Civil Engineering, Mechanical Engineering, Computer Science & Engineering, and Electronics & Communication Engineering. Q-Spiders organization has trained final year students of Computer Science & Engineering and Electronics & Communication Engineering on Basics of 'C' language and Object-Oriented Concepts using JAVA. CADD Center, Bengaluru, has trained Mechanical Engineering students in the CATIA software tool, which is used for modeling and analysis of Machine elements. Autodesk from ISCT authorized dealers for Autodesk products has given training on Fusion 360, a software used for modeling, analysis and product development in Industry for pre-final year students of Mechanical Engineering. CADD Center, Bengaluru, has trained for pre-final year Civil Engineering students on STAAD PRO and ETAB software tools, which are used for analysis and design of various civil engineering structures. ISCT authorized dealers for Autodesk products have given training on Revitt Structures, a software used for modeling, analysis, and design of structures for pre-final year students.

Two International Conferences have been organized by each department in the last five years. Computer Science & Engineering and Electronics & Communication Engineering departments have organized International Conferences on, "International Conference on Communication and Computing (ICCC-2014)", International Conference on Digital Signal Processing (ICDSP-2014) "International Conference on Communication & Computing (ICCC-2015)" and "International Conference on Digital Image & Signal Processing (ICDSP-2015)". Mechanical Engineering department has organized

"International Conference on Mechanical Engineering (ICME-2014)" and "International Conference on Materials & Manufacturing Technology (ICMMT-2015)" Civil Engineering department has organized, "International Conference on Civil Engineering (ICCE-2014)" and "International Conference on Concrete & Construction Technology (ICCCT-2015)".

 All the departments of the Institute organize workshops every year in recent technologies in their respective areas. Mechanical Engineering department has organized workshops on, " Advances in Welding" sponsored by Indian Welding Society, "Fracture Mechanics and its Industrial Applications" sponsored by Institution of Engineers, India, "3D Printing" and "Product Design & Digital Manufacturing" sponsored by Autodesk. Computer Science & Engineering and Electronics & Communication Engineering have jointly organized workshops on, "Trends in Data Mining Techniques", "Internet of Things (IoT)", Machine Learning & its Impact on Natural Language Processing and Information Retrieval", "Big Data" and "Cyber Security & Ethical Hacking". Civil Engineering department has organized workshops on, "Emerging Trends in Civil Engineering", "Advance Concrete and Soil Stability Techniques", Evolving Perspective in Building Materials & Structures", "BIM – The Future of Civil Engineers" and "Trending Techniques & Effect on Environment". Technical Talks/ Guest Lecture in the areas of recent developments are arranged at regular intervals by each department. Technical talks are delivered from experts from industries and reputed organizations.

A number of Industrial / Field visits are arranged by each department to get the exposure of industrial methods/ techniques/ processes employed in engineering and technology. Department of Mechanical Engineering has arranged the industrial visits to ACE Designs, Toyota Kirloskar, ACE Foundries, Hindustan Machine Tools, Rail Wheel Factory and Deccan Hydraulics. Civil Engineering has arranged the industrial visits to Municipal Sewage Treatment Plant and various construction sites. Students of Computer Science & Engineering and Electronics & Communication Engineering departments visited the Center for Development Advanced Computing.

Students are encouraged to do innovative live projects related to social, economical and technical advancement. Research & Development Center of the institute has encouraged & guided several innovative projects/models such as GPS based Digital Clock, AMOEBOID Educational Computer, Climate Responsive Building Design Model, Satellite-based GPS System for Boundary of Lakes, BOT to clean for Rejuvenation of Lakes, Flood Warning System using Neural Network, RFID lock, Petrol Bunk Hoses, IC Engine Working Models, Circular Election Voting Machine, Shredding Machine, Android Application for PRAKRUTHI (Predict Building Designs), Building Automation Systems, Mechanical Crane, Silicon Carbide Heating Elements Furnace, Deviancy Bridge, PSC Bridge, Cobix Slab, etc.,

University has introduced an internship for UG from the academic year 2015-16. It is to be carried out between the 6th & 7th semester and/or 7th & 8th-semester vacations for a duration of 4 weeks. Department facilitates the students to carry out an internship in various Public Sectors/ Private Industries/ Semi-Government organizations. The internship gives exposure to industry/ field experience and knowledge to the students.

File Description	Document
Link for appropriate web in the Institutional website	[View Document](#)
Link for any other relevant information	[View Document](#)

5. CONCLUSION

Additional Information :

The institution is carrying out a project entitled, "Improving Facilities in Energy Conversion Engineering Lab to enhanced the Knowledge & carryout Research Work" sanctioned by Vision Group of Science & Technology (VGST), Govt. of Karnataka. The project was sanctioned in the year 2018 and the grant received for the project is rupees twenty lakhs.

Institution has organized VTU Zonal Level Intercollegiate Throw Ball and Table Tennis Tournaments in the year 2016 & 2018 respectively. VVIT secured 1st place in Throw Ball Tournament.

VVIT has organized a "Job Mela" in the year 2017, in which nearly 120 Companies participated in the recruitment drive. Nearly eight hundred students from different colleges participated in the placement drive and more than four hundreds students received the offer letters.

Every year "Induction Program" is organized as per AICTE & VTU guidelines for 1st year students before the commencement of semester. Activities on English Communication, Career Guidance, Personality Development, Drug Awareness, Visit to surrounding Areas, etc are conducted to make the students to acquaint with the institution and its surroundings.

Institution organizes annual sports & cultural festival "VIJAYOTSAVA" every year, during which competitions are held in a number of sports & cultural events and prizes are distributed for talented students.

College recognizes academically talented students and is rewarded with certificates & cash prizes to motivate the students during annual day celebrations. In addition, every year "Best Outgoing Student" and "Academic Excellence" awards are distributed.

Concluding Remarks :

Vijaya Vittala Institute of Technology was established in the year 2009. In a span of ten years the institution has shown remarkable progress in academics and infrastructural facilities. The institution has four UG Courses, seven PG courses and research centers in three departments. The college has a well established and continuous quality improvement process to meet the responsibilities in teaching, learning, research and extension activities.

The SSR document gives a report of active Teaching - Learning Process, Quality assessment system, student support and progression system and the contributions made by the faculty and students to meet the accreditation status of NAAC.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
3.1.2	**Percentage of teachers recognized as research guides (latest completed academic year)** 3.1.2.1. **Number of teachers recognized as research guides** Answer before DVV Verification : 9 Answer after DVV Verification: 6 Remark : As per submitted proof.
3.2.2	**Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years** 3.2.2.1. **Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years** Answer before DVV Verification: <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>6</td><td>7</td><td>4</td><td>4</td><td>9</td></tr></table> Answer After DVV Verification : <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> Remark : Opted out metric
3.3.2	**Number of research papers per teachers in the Journals notified on UGC website during the last five years** 3.3.2.1. **Number of research papers in the Journals notified on UGC website during the last five years.** Answer before DVV Verification: <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>27</td><td>18</td><td>31</td><td>40</td><td>13</td></tr></table> Answer After DVV Verification : <table><tr><td>2018-19</td><td>2017-18</td><td>2016-17</td><td>2015-16</td><td>2014-15</td></tr><tr><td>1</td><td>0</td><td>1</td><td>0</td><td>3</td></tr></table> Remark : Web-link redirecting to the journal webpage published in UGC list not provided in the template.

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

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

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
18	7	6	32	18

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
6	2	3	11	4

Remark : As per submitted supporting documents.

3.5.1	**Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year**

3.5.1.1. **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
137	29	41	45	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1	2	3	4	2

Remark : Activities claimed are not related to research, Faculty exchange, Student exchange/ internship.

4.1.4	**Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)**

4.1.4.1. **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
106.04	88.8	99.68	91.58	70.87

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	44.16	40.38	33.88	28.56

Remark : The audited statement of Income and expenditure across the financial years do not show expenditure on infrastructure augmentation. Expense covered under 4.4.1 are repeated.

5.3.1	**Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

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

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
1	6	1	0	5

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	2	0	0	0

Remark : Only university/state/national / international level awards are considered. Some of the certificates are in regional language.

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

   5.3.3.1. **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
280	300	400	350	324

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	2	2	2	2

Remark : All activities conducted under an event will be counted as one event.

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:

2018-19	2017-18	2016-17	2015-16	2014-15
11	5	3	2	6

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	00	0	0

Remark : All relevant documents as per SOP for proof of payment not provided. Mere cash vouchers for payment are not considered

6.3.4	**Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**

6.3.4.1. **Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years**

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
18	22	9	3	4

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	1	0	2

Remark : ? Programs of duration less than one week were removed. ? One teacher was considered only once a year ?Programs conducted in 2019-20 academic year were removed.

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

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

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	.08	0.49	0	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : Opted out metric

7.1.6	**Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:** 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions / awards** 5. **Beyond the campus environmental promotion activities** Answer before DVV Verification : C. 2 of the above Answer After DVV Verification: E. None of the above Remark : No proof submitted
7.1.7	**The Institution has disabled-friendly, barrier free environment** 1. **Built environment with ramps/lifts for easy access to classrooms.** 2. **Disabled-friendly washrooms** 3. **Signage including tactile path, lights, display boards and signposts** 4. **Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment** 5. **Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading** Answer before DVV Verification : A. Any 4 or all of the above Answer After DVV Verification: C. 2 of the above Remark : 1. Built environment with ramps/lifts for easy access to classrooms. 2. Disabled-friendly washrooms

2.Extended Profile Deviations

ID	Extended Questions
1.2	**Number of programs offered year-wise for last five years** Answer before DVV Verification: {table below} Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
12	14	11	11	11

2018-19	2017-18	2016-17	2015-16	2014-15

13	12	11	11	11

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

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
266.69	293.28	347.91	290.51	361.4

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
264.78	241.59	274.76	235.48	210.83

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