



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING
AND TECHNOLOGY, NAGPUR**

ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY,
GAVSI MANAPUR, WARDHA ROAD, NAGPUR

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

St. Vincent Pallotti College of Engineering & Technology, established in 2004 on a sprawling sixteen acre campus in Gavasi Manapur on the Nagpur-Wardha Road, is owned and managed by the Nagpur Province of the Pallottine Fathers, an international religious order.

The College is approved by AICTE, New Delhi and DTE, Government of Maharashtra. It is affiliated to Rashtrasant Tukadogi Maharaj Nagpur University (RTMNU). The college offers six undergraduate engineering programmes: Computer Engineering, Mechanical Engineering, Electronics & Telecommunication Engineering, Electrical Engineering, Information Technology and Civil Engineering. It also offers two post graduate courses in Computer Science Engineering and CAD/CAM and runs a research center in Mechanical Engineering. Electrical and Computer Engineering Departments are NBA accredited.

Pallotti College is a member of most of the professional bodies such as IEEE, ISTE, CSI, CII, VIA and BMA. We have also signed MOU with Harrisberg University in the United States Negotiations are on with some German industries seeking ways of collaboration including internship.

As a result of the presence of eminent personalities on the Governing Body, clarity of vision, a dedicated faculty, the overwhelming trust posited in us by the parents and the enthusiastic support of our alumni, today the institute stands first among the affiliated institutes of Nagpur University and one of the top Technical Institutions of Central India. The College is noted for academic excellence, discipline, cleanliness and its green and well-kept campus. Due to high public accreditation we have almost hundred percent admissions in all the branches. In view of institute-industry interface, we have introduced various internship and skill development programs with special focus on spoken English and communication, and signed MOUs with various industries (including ISRO with respect to project and internship), and skill development agencies to make our students employable. Many leading companies regularly visit the college for on-campus recruitment. In the various competitive examinations like GRE, CAT, GATE our students have done us proud. So too in the various national level competitions (SAE BAJA, Go Kart) our wards have brought laurels to the institution. Pallotti College has also participated in various national level competitions.

Vision

To develop a knowledge based society with clarity of thoughts and charity at hearts to serve humanity with integrity.

Mission

To empower youth to be the technocrats of tomorrow with absolute discipline, quest for knowledge and strong ethos to uphold the spirit of professionalism.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Affirmative repute in the Society.
- Disciplined Environment.
- Highly experienced and dedicated faculty & staff members.
- Consistent academic performance with best results and University ranks every semester.
- Clean and Green campus.
- Good infrastructure with facilities to realize the aspirations of students and faculty members.

A major point of strength of the college is the presence of very eminent and experienced personalities like the Director of XLRI, Ex-director of NITI, Professors from IIT Bombay and General Manager of BOSCH on the Governing Body. Besides, the college has a good reputation and is held in high esteem not only in and around Nagpur, but also outside Maharashtra. Our consistently good performance in academics and co-curricular/extra-curricular activities is another strong point. Our infra-structure (class rooms, well-equipped labs, auditoriums, playgrounds and hostels), a very dedicated and experienced faculty, internship and industry connect, strong parent and alumni involvement, and the friendly and welcoming atmosphere prevailing in the campus too contribute to our strength. The national and international connectivity of the Pallottines is also an added advantage.

Institutional Weakness

- Limited financial resources as a self-financed institute
- No Flexibility in curriculum as affiliated to University
- Research and Development Culture
- Limited placements in core industries

At the same time we are also aware of our weaknesses. The demands of NAAC have opened our eyes to see that we still have to grow. Two main areas where we need to grow are: a) Research and development and, b) Placements in core engineering industries. We have already taken steps to address these issues. We promote research and publication through various incentives and through Centre of Excellence. To enhance placement both short term plans (inviting many industries for campus recruitments, encouraging and preparing students for interviews) and long term plans (more focused CRT programs, compulsory internship, inviting experts from industries for interaction, industrial projects, training in communication, confidence building and mannerism) are afoot.

Institutional Opportunity

- Faculty and student exchange programs with foreign universities
- Autonomy for the Institute.
- Industry collaborations as located in upcoming Industrial area

The reputation of the college and the wide contact of some of our faculty members with industries and eminent men and women are deemed as excellent opportunities for meaningful collaboration and greater connect with industries and institutions of higher learning. The proximity of Pallotti College to five star Industrial area at Butibori, the largest in Asia, provides us with excellent opportunities for engagement with a variety of industries. New initiatives of the government such as entrepreneurship and skill enhancement drive to promote

quality education and employability too are good opportunities for further growth. The stringent demands of the NAAC process are also seen as an excellent opportunity to enhance quality.

Institutional Challenge

- Limited Accessibility to funds
- Sluggishness in Job Market
- Saturation of engineering education market
- Unrestrained Student Behaviors
- Declining resources from the government and increase in dependence on tuition revenue

The major challenges we face are, resource crunch, constantly shrinking job market and decline in admissions. Steep drop in admissions is going to be a bigger challenge in the years to come because of the government decision to establish more IITs and NITs, and to sanction additional intake in the existing ones. Catching up with the pace of technological development too is a big challenge. Since every challenge is at the same time an opportunity we will have to do out of the box thinking and come up with innovative and creative ideas.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institution is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) and follows the curriculum designed by the University. Faculty members are involved in designing and implementing the University Curriculum. Senior faculty members of the Institution are involved in various bodies and committees of the University such as Board of Studies, Local Enquiry, Staff Selection and Examination Committees.

The objective of the curriculum is to provide quality education in engineering with opportunities for extensive hands-on experience and industry exposure. Teaching- learning and evaluation schedule has been integrated into the system by the college.

The Institute level academic calendar is prepared every year which includes process for executing academic activities as per the academic planning. The Heads of Departments and Academic Coordinators are responsible for coordination, implementation and delivery of the curriculum.

All departments conduct certificate courses, workshops, seminars and Guest lectures to bridge the gap between curriculum and industry. Under the banner of National Service Scheme (NSS), various activities are conducted to make students participate in various Social and Community Services. The Institute offers various value added courses to enrich the curriculum. As part of this endeavour for curriculum enrichment, the Institute organizes various programs like Personality Development, Yoga, Credit course as well as workshops based on latest technologies.

The staff members are constantly encouraged to attend refresher courses, conferences, workshops and seminars to update their knowledge. Institute is Remote Centre for ICT courses of IIT Bombay which empowers faculty members to use modern digital tools like Moodle, WordPress and Google Classroom.

The Institute provides opportunities for better exposure to the students by conducting Internship and field Projects. The Institute follows a feedback process to collect feedback from various stake holders on curriculum, delivery of course content, activities, seminars, workshops, infrastructural facilities and laboratory courses. The Institute, under the guidance of the Principal, has given due consideration to the suggestions and taken constructive action on the feedback given by various stakeholders. The suggestions are forwarded to University for further modifications in the curriculum.

Teaching-learning and Evaluation

The Institute is committed to effective Teaching-Learning and Evaluation process. The Institute gives due credit to innovation and creativity in the Teaching-Learning process. Proactive use of recent technology and teaching aids (like Virtual laboratories, NPTEL video, SWAYAM courses, MOOCs, YouTube etc.) along with practical aspects of teaching is a regular practice of faculty members. The Institute takes initiatives to assess learning levels of the students through induction programs, continuous evaluation and their performance in various examinations. Based on this evaluation, special activities are undertaken as per the needs of the students. The faculty members mentor/counsel the students to explore their field through independent study and guide them to develop effective and lifelong skills. The Institute takes due care to provide required training and resources to the faculty members for implementing such innovative practices. The Institute is committed to providing quality education to students and has sufficient number of well qualified, competent and experienced faculty members. A rational, transparent and unbiased recruitment procedure is implemented without any discrimination on the basis of caste, religion, region and creed.

The Institute practices a well-defined continuous internal assessment process. The Institute closely follows all the examination reforms and the time line set by university and the Institute. The evaluation process is transparent and efficient. Well defined procedure is exercised for addressing grievances. The overall performance and acquisition of skills are considered for measuring the effectiveness of the outcomes of the Teaching-Learning process. The evaluations and stake holders' feedback are analyzed and reviewed for further planning.

The Institute has provided all the facilities for differently abled students (Divyangjan). The Institute has a Religious (Christian) Minority Status with minimum 51% quota for admitting Christian students and hence number of seats earmarked for admitting caste based reserved category students as per GOI or State Government rule is not applicable.

Research, Innovations and Extension

The Institution has a Research and Development (R & D) Cell, Intellectual Property Right (IPR) Cell and Tech Pallottine Development Centre (TPDC) which encourage the faculty and students to develop their research skills. The Research and Development Cell involves one member from each department of the institution. Currently, there are five faculty members who are recognized research supervisors. Faculty members have published books, research papers in International and National Journals and Conferences. There are many faculty members who have been appreciated and felicitated for their achievements. To inculcate the ethical practice of writing technical papers, the institution has a plagiarism policy in place.

The institution is setting up an Incubation Centre to nurture entrepreneurship among the students. Entrepreneurship Development Cell organizes various entrepreneurial workshops and activities. Many patents

have been registered and published in the name of students and faculty members. Students are facilitated through various Industry-Academia Innovative practices such as workshops, guest lectures by industry persons and technical events. Industrial visits are organized for students to improve their awareness of the prevailing field practices. Field projects in collaboration with the industries are also assigned to final year students. The institution has signed MoUs with the industries, reputed academic institutions and foreign university for student internship programme, industry based final year projects and consultancy services.

The institution encourages students to participate not only in field events organized by SAE, GoKart, BAJA, but also in social activities such as patriotic programmes, Swachhata Abhiyan in nearby rural areas, Tree Plantation, Green Campus-Clean Campus, Blood Donation camps, AIDS Relief Drive, Medical Health Check Up, Yoga, Sanvidhan Diwas, Road Safety awareness Programme etc. The NSS unit is proactive in organizing various activities for sensitizing students to social issues. The institution has been frequently appreciated for the social activities conducted with active involvement of students, teaching and non-teaching staff members.

Infrastructure and Learning Resources

Infrastructure

- Well maintained infrastructure spread over 15.97 acres with built-up area of 20947 Sqm.
- Well-furnished Administrative Office, Conference Room, HODs' cabins & cabins for faculty members are available. There are separate rooms for IEDC Cell, Training & Placement Cell, R&D Cell, Examination Cell and Alumni cell.
- Indoor and outdoor sports facilities, Health Care hospital facility, ATM, Reprographics, Stationery store are also available.
- Ramps, elevator and other facilities are available for the physically impaired students.
- Holistic development cell for cultural activities, Student activity centre, and Yoga and Meditation hall are available.
- Counselling room and sick rooms for students are also available.
- In-house maintenance team is available for maintenance of all Physical, Academic, and Support facilities such as building, electrical, plumbing, classrooms, laboratories, Sports complex and Library.
- Safety and utility facilities like Fireextinguisher, DieselGenerator (No-02, back up 82.5 KVA and 235 KVA) Lift etc. with outsourced maintenance.
- Hygiene and cleanliness for a congenial learning environment is taken care of by a team of two non-teaching & 14 housekeeping staff.
- Centralized Computer Centre team maintains all software/hardware, CCTV and IT infrastructure related issues.
- Clean & Green Campus.
- Well organized parking facility.
- Emergency exits and firefighting system.
- External agencies for housekeeping and security of campus.

Learning Resources

- 30 ICT enabled classrooms, smart class room, 9 tutorial rooms, 65 laboratories, 5 Seminar halls, IIT Bombay sponsored Remote centre, Embedded and Robotics lab (e-yantra), central library and workshop for effective learning environment.
- Well equipped central library with total of 5355 number titles, 29299 books, 369 hard bound journals,

794 project reports, 82 Journals, 22 magazines and 85 e-books.

- Digital Library with e-books and e-journals facilities, National and International Journals. Remote access to students and faculty members is available.
- In-house developed software “LibSoft”, developed & maintained by Tech Pallottine Development Centre (TPDC) manages library system and processes.
- Excellent computing facilities, IT infrastructure, regularly updated IT facilities, centralized computer centre, Internet Facility with 110 Mbps Speed for 754 computers and Wi-Fi connectivity.

Student Support and Progression

Students are the primary stakeholders of the institute and the institute has developed various platforms for their overall development in academics, co-curricular and extra-curricular activities.

Academics

The teaching-learning process is enhanced by various activities such as expert lectures, industrial visits, workshops, seminars, internships and bridge courses to provide exposure to students to the practical aspects of life and is also supported by remedial coaching for weak students.

Co-curricular

The institute also conducts several skill development programs for aspiring students to enhance their technical knowledge. Training sessions are also organised regularly for career guidance and entrepreneurship development.

Extra-curricular

Several extra-curricular and sports activities are being conducted to facilitate holistic development of the students. The college has active students' representation in professional societies like ISTE, REC, SAE, ISHARE, IE(I), CSI & IETE. The representation of students is also a part of various bodies like Department Advisory Board (DAB), College Development Committee (CDC) and Internal Quality Assurance Cell (IQAC).

Placement

The college has a well established Training & Placement (T & P) department for providing job oriented training to students and providing opportunities through campus interviews. Students are made aware of various opportunities after graduation and are encouraged to appear for competitive exams by faculty members.

Alumni

The alumni association of the college is registered with the charity commissioner (Registration No:

Nagpur/0000693/2018) and conducts regular local and regional alumni meets. The alumni, through interaction, contribute significantly in career guidance, assistance for higher studies and placement. The alumni also facilitate summer internship and industrial visits for students.

Social Obligation

The college supports deserving students with financial assistance and acts as a facilitator to benefit the students with various government sponsored scholarship / free ship schemes. The Institute has various committees such as Internal Complaints Committee (ICC) and Anti-Ragging Committee to address the grievances of the students.

Governance, Leadership and Management

The Institute is managed by the Nagpur Pallottine Society and has representatives as Director, Assistant Director, Registrar, Financial Administrator, HR Manager, along with competent administrators to provide effective governance and leadership at all levels.

The Institute has well defined organizational structure to support participative management for effective decision making. As a part of e-governance, the Institute has automated all processes. A strategic plan for 5 years is aligned with the vision and mission of the institute. Stakeholders of the Institute are involved in Committee/ Boards at various levels for sustaining institutional capacity and education effectiveness which is reflected through organizational structure of the Institute. The minutes of the meeting of all the committees are communicated and maintained. Service rules, employee welfare schemes, promotion systems are well defined. The institute provides adequate support to the faculty for professional development for attending conferences / workshops. Professional Development Programmes for teaching and non-teaching staff are organized at the Institute. Performance appraisal of faculty is done annually. Various promotional and welfare schemes are available for teaching and non-teaching staff associated with the institute.

The institute takes utmost care in preparing its financial budget as well as its allocation and a tab is kept on its utilization by the respective departments. There are various budget heads taken into consideration and as per the requirement, allocations are done. The management has appointed internal and external auditors for statutory auditing and monitoring of financial transactions. The institute has its own Internal Quality Assurance Cell (IQAC) to streamline and ensure the quality in academic and overall administration of the Institute.

Institutional Values and Best Practices

The Institute has adopted various best practices which not only aid the teaching-learning processes but also the holistic development of students, environment and society at large. These practices are in-line with the core values and ideology of the institute. The institute has various gender sensitive, safety & security and counseling facilities. It proactively organizes programs on gender sensitization. The institute is aware of its responsibility towards environment and is continuously taking steps to reduce the carbon footprint. A solar power plant of a capacity of 96KW is installed in the institute.

The institute takes sufficient steps for effective waste management (solid, liquid & e-waste management). The institute has rainwater harvesting structures and utilization along with drip irrigation system in the campus. The institute has a lush green campus, green landscaping with trees and plants. The institute follows various green

practices like making provision for public transport, pedestrian friendly roads, plastic-free campus, and paperless office. The institute advocates civic awareness among its students by having them participate in relevant activities. The Institution organizes various programs on festivals and events of national significance. It also maintains complete transparency in its financial, academic, administrative and auxiliary functions.

The Institute offers and facilitates professional skill and employability enhancements activities for students by conducting various technical skill programs. The departments at the institute, in collaboration with various forums, organize technical events and workshops for skill enhancement of the students. The institute encourages students' participation in national competitions and training programs/ workshops. The Institute has a strong industry connect. Industry representatives are there in the Institute's administrative bodies. The institute has MOUs with various industries and CII membership. The institute encourages students to connect with industries through various initiatives such as industrial visits, internship, guest lectures and workshops by people from the Industry.

The Institute is well known and socially accredited in the region for its academic excellence, discipline & cleanliness. This is evident from its university results and acknowledgments received from the stakeholders in particular and the society in general.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGPUR
Address	St. Vincent Pallotti College of Engineering and Technology, Gavsi Manapur, Wardha Road, Nagpur
City	Nagpur
State	Maharashtra
Pin	441108
Website	www.stvincentngp.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Surendra V. Gole	07103-275951	9423683433	07103-275953	info@stvincentngp.edu.in
IQAC Coordinator	Mrs. Jyoti P. Rothe	07103-275952	9860661522	-	jrothe@stvincentngp.edu.in

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes Christian Minority Certificate.pdf
If Yes, Specify minority status	
Religious	Christian
Linguistic	
Any Other	

Establishment Details				
Date of establishment of the college	28-01-2004			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Maharashtra	The Rashtrasant Tukadoji Maharaj Nagpur 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	10-04-2018	12	For one 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	St. Vincent Pallotti College of Engineering and Technology, Gavsi Manapur, Wardha Road, Nagpur	Urban	15.97	20947

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,Electronics And Telecommunication Engineering	48	HSSC JEE CET	English	120	118
UG	BE,Mechanical Engineering	48	HSSC JEE CET	English	120	119
UG	BE,Electrical Engineering	48	HSSC JEE CET	English	60	59
UG	BE,Computer Engineering	48	HSSC JEE CET	English	60	60
UG	BE,Information Technology	48	HSSC JEE CET	English	60	60
UG	BE,Civil Engineering	48	HSSC JEE CET	English	60	56
PG	Mtech,Mechanical Engineering	24	BE B.TECH GATE	English	18	1
PG	Mtech,Computer Engineering	24	BE B.TECH GATE	English	18	7
Doctoral (Ph.D)	PhD or DPhil, Mechanical Engineering	36	ME M.TECH PET	English	10	1

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	7				8				111			
Recruited	6	1	0	7	8	0	0	8	66	45	0	111
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	7				8				111			
Recruited	6	1	0	7	8	0	0	8	66	45	0	111
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				100
Recruited	75	25	0	100
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				19
Recruited	18	1	0	19
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	1	0	4	0	0	11	4	0	24
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	2	0	0	4	0	0	51	45	0	102

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	300	20	0	0	320
	Female	165	6	0	0	171
	Others	0	0	0	0	0
PG	Male	3	0	0	0	3
	Female	5	0	0	0	5
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	1	0	0	0	1
	Female	0	0	0	0	0
	Others	0	0	0	0	0
Certificate	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	31	36	46	36
	Female	17	22	35	38
	Others	0	0	0	0
ST	Male	0	1	1	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	101	107	101	94
	Female	66	63	49	70
	Others	0	0	0	0
General	Male	107	106	116	96
	Female	54	49	59	61
	Others	0	0	0	0
Others	Male	17	15	16	18
	Female	6	5	11	7
	Others	0	0	0	0
Total		399	404	434	421

3. Extended Profile

3.1 Program

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

Response: 291

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

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

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1869	1912	1922	1926	1969

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
238	249	259	262	254

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
482	474	449	477	399

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
133	136	132	126	120

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
133	136	132	126	120

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 44

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

2017-18	2016-17	2015-16	2014-15	2013-14
374	410	414	410	485

Number of computers

Response: 558

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:

The Institute is affiliated to Rashtrasant Tukdoji Maharaj Nagpur University and approved by AICTE. Faculty members contribute in framing of syllabus by participating in various bodies of University. The Institution ensures effective curriculum delivery through a well-planned academic calendar which adheres to the University schedule. Heads of Department and academic co-ordinators are responsible for planning and monitoring of overall academic activities and its functioning.

- The Institute's Core Committee provides objectives and guidelines for effective curriculum delivery.
- Internal Quality Assurance Cell (IQAC)/QAC prepare the academic calendar in line with University academic calendar.
- Each Department prepares their objectives in alignment with the institute's objectives.
- Head of each Department allocates the theory and laboratory courses to faculty members according to their choice, area of specialization, experience and time table is prepared accordingly.
- Faculty members plan course delivery and accordingly prepare Course File which includes University Syllabus, Course Outcomes, PO-PSO Co-relation, Level of attainment, Teaching Plan, Tutorial Plan, Tutorial Sheets, Assignment Sheets, Sessional Question Paper with Marking Scheme, University Question Papers, Question Bank, Result Analysis (Sessional), Result analysis (University), CO-PO-PSO Attainment, List of Reference Books, NPTEL Videos, Beyond Syllabus Details.
- Faculty Members maintain students' attendance and ensures effective course conduction through continuous assessment.
- Continuous assessment tools consist of tutorials, assignments, mid and end semester examinations, practical performance, presentation and viva voce.
- To improve effectiveness of teaching -learning process, students' feedback is taken regularly. HOD shares this feedback with faculty members; counsel them wherever necessary and corrective actions are taken.
- Course Faculty discusses sessional performance with students. Remedial classes are conducted for the failure students to improve their results.

- Students get an opportunity to improve their sessional performance through the improvement examination.
- Overall professional development of students is achieved with the help of Industry Visits, Internships, Mini and Major Projects.
- IQAC/QAC conducts academic audit at the end of the semester/year to ensure quality of academic delivery.
- Parents Teacher Interaction (PTI) is conducted to discuss their ward's performance. The teachers and mentors/class counsellors take efforts for over-all development of the students.
- The Institute has developed in-house software, Management Information System (MIS), to monitor students' attendance, students' feedback and syllabus coverage.
- To improve students' employability, the Department/ Skill Development Cell/Training and Placement Department organize various training and certification programs including Campus Recruitment Training(CRT).
- Seminars, webinar, guest lectures and industrial visits are arranged to keep the students updated with current developments.
- Self-learning and Life-long learning abilities of students are developed by promoting use of various learning platforms like SWAYAM, NPTEL, MOOCs (Edx, Coursera, Udacity, Udemy), Spoken Tutorials, Virtual Labs, E-Yantra.
- Views on the curriculum are taken from the industry experts, academia experts, parents and alumni to improve teaching learning process and academics.
- The staff members are constantly encouraged to attend refresher courses, conferences, workshops and seminars to update their knowledge. Institute is Remote Centre for ICT courses of IIT Bombay which empowers faculty members to use modern digital tools like Moodle, WordPress and Google Classroom.

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

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

Response: 23

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	1	12	2	1

File Description	Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

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

Response: 45.6

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

2017-18	2016-17	2015-16	2014-15	2013-14
10	6	14	16	13

File Description	Document
Details of participation of teachers in various bodies	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 100

1.2.1.1 How many new courses are introduced within the last five years

Response: 291

File Description	Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Details of the new courses introduced	View Document
Any additional information	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 7

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document
Any additional information	View Document

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

Response: 87.23

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

2017-18	2016-17	2015-16	2014-15	2013-14
1869	1912	1922	1568	1078

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

1.3 Curriculum Enrichment

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

Response:

Gender Issues:

- The Institute follows a co-education system and has established an environment which is free of gender inequality and discrimination. Every stake holder of the institute feels safe and comfortable in the campus. To ensure an atmosphere which is free of gender violence and gender discrimination, the Institute has a well-established Grievance Redressal Mechanism which includes an Internal Complaints Committee/Women's Grievance Cell.
- Internal Complaints Committee conducts various awareness programs such as Awareness on Sexual Harassment of Women, International Women's day and Health Check-up Camps.
- The Institute follows rules and regulations as directed by the statutory regulating bodies.

Environment and Sustainability:

The institute has lush green campus spread over an area of 15.97 acres and works consistently towards maintaining clean and eco-friendly environment. The Institute has got recognition of being one among the top 35 institutes of India for having Clean and Green Campus, by AICTE in 2017-18.

The various initiatives taken for environment and sustainability are:

- In-house Rain Water Harvesting system(60 lakh litre /year)
- Kitchen waste biogas plant having capacity of 16 Cubic meter per day, for utilization of waste food in the hostel mess.
- Drip irrigation system.
- Roof top solar power generation plant of 96 kW.
- Sewage water treatment plant in girl's hostel(40 KLD).
- Paper shredding machine.
- E-waste Management system.
- Tree Plantation, NSS Special Camp, Swachhata Abhiyan, Unnat Bharat Abhiyan.
- Green Audit.

Human Values and Professional Ethics:

- Human Dignity, Social Responsibility, Fulfilling Commitments, Professional Leadership, Mutual Trust are Core Tech-Pallottine Values practiced right from the inception.

- The institute has an anti-ragging cell chaired by the Principal.
- The institute takes additional efforts through National Social Service (NSS) to sensitize students on human values.
- NSS unit organizes various events like Blood Donation Camp, Yoga Day and Youth Day.
- The institute celebrates various national days like Teachers Day, Engineers Day, Republic Day and Independence Day to inculcate nationalism and integrity.
- The institute takes efforts to inculcate professional ethics among students and faculty members through different Personality Development and Awareness Programs on Road Safety.

In addition to this, curriculum of RTM Nagpur University offers the following courses:

- **Ethical Science:** To inculcate knowledge of Culture and Civilization along with Socio-Legal Awareness and Professional Ethics.
- **Communication Skills:** To enhance verbal and written communication.
- **Basics of Civil Engineering:** To study Environment & Natural Resource Management, Role of Engineers in Sustainable Development.
- **Environmental Engineering:** To understand the impact of engineering solutions in a global, economic, environmental and societal context.
- **Environmental Studies:** To create awareness about basic, scientific & social issues related to environment.
- **Non-Conventional Energy Sources:** To study various sources of Non-conventional energy such as solar, wind, small hydro, ocean & wave energy.
- **Ethics in Information Technology:** To understand the legal, ethical and societal implications of information technology
- **Industrial Economics and Entrepreneurship Development:** To create awareness about economics terminology and business organization, entrepreneurship and relationship between business, market & society.
- **Engineering Economics & Industrial Management:** This subject help students to understand about the material, production, personnel, finance and marketing management.

File Description	Document
Any Additional Information	View Document
Link for Additional Information	View Document

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

Response: 38

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

Response: 38

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 43.61

1.3.3.1 Number of students undertaking field projects or internships

Response: 815

File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

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

1.4.2 Feedback processes of the institution may be classified as follows:

A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
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 percentage of students from other States and Countries during the last five years

Response: 7.44

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

2017-18	2016-17	2015-16	2014-15	2013-14
93	102	123	179	220

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 90.09

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

2017-18	2016-17	2015-16	2014-15	2013-14
386	386	421	415	446

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

2017-18	2016-17	2015-16	2014-15	2013-14
456	456	456	456	456

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years**Response:** 100

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

2017-18	2016-17	2015-16	2014-15	2013-14
238	249	259	262	254

File Description**Document**

Institutional data in prescribed format

[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, after admission and organises special programs for advanced learners and slow learners****Response:****Assessment Process:**

Learning levels of the students are assessed through following activities:

- Prerequisite classes for first year students to brush up knowledge of basic sciences followed by a diagnostic test.
- Students' performance in Sessional Examinations.
- University Examination Results.
- Continuous assessment by means of assignments, tutorials and lab-work.

Based on the analysis of these activities students are categorized as Advanced (bright) / Slow (weak) learners. Various activities are conducted to address issues of these students.

Activities for slow learners:

- Provision of difficulty solving session in time table.
- Exam oriented remedial/difficulty solving classes.
- Subject wise revision classes for first year students.
- Mentoring/Counselling.
- Special attention towards slow learners in tutorial hours.
- Provision of post sessional improvement examination.

- Exclusive classes for Lateral Entry (direct second year) students, to overcome the loss due to late admission.
- Sharing the academic performance with their parents.
- Input to enhance communication skills.

Activities for Advanced Learners:

Provision of several platforms to showcase their talents:

- Society of Automotive Engineers (SAE).
- Indian Society for Heating Refrigeration and Air-conditioning Engineers (ISHRAE).
- Institution of Engineers (India) (IE(I)).
- Computer Society of India (CSI).
- Institution of Electronics and Telecommunication Engineers (IETE).
- Indian Society for Technical Education (ISTE).
- e-Yantra in collaboration with IIT Bombay.

Organization of technical competitions like:

Sr. No.	Organizing Department	Name of Event	Level
1	All Departments	Technex	National
2	Mechanical Engineering	Mechmarise	Regional
3	Electrical Engineering	Inventomania	Regional
4	Electronics and Telecommunication Engineering	Festronix	Regional
5	Computer Engineering	Infinity	Regional
6	Information Technology	Infotsav	Regional

- Training programs/workshops like CAD, PLC/SCADA, CNC programming, IOT, Embedded Systems, Oracle, LINUX, Android, Ethical Hacking, Robotics and Gaming.
- Encouragement for participation in national level technical competitions.
- Mentoring for career counselling to qualify in competitive examinations and to pursue higher education.
- Interaction of academic toppers of higher semester with lower semester students to guide them in their studies.
- Appreciation of academic toppers by certificates and cash prizes.
- Academic toppers are selected as Student Representative Council (SRC) members and are involved in Departmental Advisory Board, Internal Quality Assurance Cell (IQAC) and College Development Committee (CDC).

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

2.2.2 Student - Full time teacher ratio	
Response: 14.05	
File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls	
Response: 0	
2.2.3.1 Number of differently abled students on rolls	
File Description	Document
Institutional data in prescribed format	View 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
<p>Response:</p> <p>With the conventional teaching-learning method in place, the institute is committed to enhance students' experiential learning, participative learning and problem solving abilities by adopting various methods.</p> <p>Experiential Learning:</p> <ul style="list-style-type: none"> ◦ Hands-on experience of theoretical knowledge through performance of practical in well-equipped laboratories. ◦ Learning with the help of simulators (MATLAB, Lab-View, PSIM, Packet Tracer, MASM, Multisim, Umlerello), Video Presentation, Virtual Lab (IIT Bombay) and Mobile Apps. ◦ Self-Learning through Massive Online Open Courses (MOOCs) platforms like edX by Harvard, Coursera by Stanford, Udacity, Udemy, SWAYAM, NPTEL. ◦ Knowledge acquisition through CAD course, Insight to Renewable Energy, Introduction to MATLAB, CNC training workshop, workshop on PLC and SCADA, e-Yantra projects, Linux workshop and Oracle training etc. ◦ 90 % of students undergo Industry Internship for 2 to 4 weeks during the semester break.

Participative Learning:

- Knowledge enhancement through program specific case studies carried out by a group of 5 to 7 students in industry.
- Mini projects are assigned to the students in groups to enhance their ability to tackle specific engineering problems and to develop their team working ability.
- Industrial visits / tours are conducted to provide the Industry Exposure.
- In final year during major project, students get an opportunity to work in a team of 4/5 members under supervision of project guide.
- This develops their ability to work in a team and solve complex engineering problems. This also enhances their communication & presentation skills.
- Various Inter-collegiate events like Technex (Annual Technical Fest), Insight (Annual Cultural Fest), and departmental technical events such as Inventomania, Mechmerise, Infinity, Festrnix, Infotsav are organized for participative learning and team work.
- Co-curricular, Extracurricular and Sports activities conducted throughout the year which leads to holistic development of students.

Problem Solving Methodologies:

- Knowledge enhancement through program specific case studies in industry.
- Mini projects are assigned to the students to enhance the ability to tackle specific engineering problem.
- Industrial visits / tours are conducted to provide the Industry Exposure.
- In final year during major project, students get an opportunity to work in a team under supervision of project guide. This develops their ability to work in a team and solve complex engineering problems.
- Various Inter collegiate events like Technex (Annual Technical Fest), Insight (Annual Cultural Fest), and departmental technical events such as Inventomania, Mechmerise, Infinity, Festrnix, Infotsav are organized for students to get an opportunity to showcase their technical skills to solve complex engineering problems and enhance their technical knowledge.

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

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.**Response:** 100**2.3.2.1 Number of teachers using ICT****Response:** 133

File Description	Document
List of teachers (using ICT for teaching)	View Document
Any additional information	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

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

Response: 20.54

2.3.3.1 Number of mentors

Response: 91

File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

The institute gives due credit for innovation and creativity in teaching learning. Proactive use of recent technology and teaching aids along with practical aspects for teaching is regular practice of faculty members.

- The effective teaching is carried out by using Wordpress Website, Animated PPT, Google form, self-made YouTube Video, YouTube Video, YouTube channel.
- Learning Management Systems (LMS) like Moodle, Google Class Room and teaching methodologies like Flipped Classroom, Crossword puzzles and Think-Pair-Share are also adopted.
- Participative teaching and learning through effective conduction of tutorials.
- Subject wise e-resources are compiled by faculty members and are made available on intranet for easy access.
- To facilitate the students' for their examination preparation, course materials are made available through various mediums such as reprographic facility center and also e-resources available on intranet.
- Faculty members encourage students for the use of NPTEL videos, SWAYAM courses, MOOCs etc. for better understanding of various topics.
- Guest lectures/webinars by Industry/Academia experts is a regular practice at the Institute.
- Practical conduction through various Simulation Software (MATLAB, Lab-View, PSIM, Packet Tracer, MASM, Multisim, Umberello)
- Use of Mobile Applications for information sharing and effective & timely communication.
- Students get self-learning opportunity through Virtual Labs (IIT Bombay), Spoken Tutorials (IIT Bombay), Technical seminar, case study, mini project, Industry Visits/Industry Tours and Internship

- Assistance from industry experts and alumni for Industry based projects.
- The institute has all classrooms ICT enabled with LCD Projector and Internet facility to enrich teaching-learning experience.
- The Wi-Fi campus along with internet (110 Mbps) facility available at each computer in every department enables learners and teachers to enhance their knowledge and gain exposure of latest technologies
- The institute organizes different faculty development programs for the knowledge up-gradation of faculty members on regular basis.
- 80 % of faculty members have successfully completed ICT 101X and 201X workshops organized by IIT Bombay. The institute is authorized remote center of IIT Bombay.



File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

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

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

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

Response: 11.76

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

2017-18	2016-17	2015-16	2014-15	2013-14
23	21	13	11	9

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document
Any additional information	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 11.37

2.4.3.1 Total experience of full-time teachers

Response: 1511.66

File Description	Document
Any additional information	View Document

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

Response: 8.5

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	4	1	0	2

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document
Any additional information	View Document

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

Response: 15.39

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

2017-18	2016-17	2015-16	2014-15	2013-14
22	23	21	19	15

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

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

Response:

Continuous Internal Evaluation System:

The institute emphasizes on continuous evaluation of students throughout the academic session. Evaluation scheme is drafted and presented by QAC/IQAC and approved by the institute's Core Committee that consists of Management Representatives, Principal, Vice-Principal, and Heads of all the departments. Formal and informal feedbacks collected from various stakeholders helps in reforming internal evaluation.

Following table depicts reforms in CIE in last five years:

Particulars	Session 17-18	Session 16-17		Session 15-16		Session 14-15	Session 13-14
	Odd/Even Semester	Odd Semester	Even Semester	Odd Semester	Even Semester	Odd/Even Semester	Odd/Even Semester
Sessional – I (50 % syllabus)	05 Marks	7.5 Marks	05 Marks	05 Marks (33.3 % syllabus)	7.5 Marks	10 Marks (100 % syllabus) Pre university Exam and 03 Marks Class Test	10 Marks (100 % syllabus) Pre university Exam and 03 Marks Class Test
Sessional – II (50 % syllabus)	05 Marks	7.5 Marks	05 Marks	05 Marks (33.3 % syllabus)	7.5 Marks		
Tutorials /Assignment / Online Exam.	10 Marks	05 Marks	10 Marks	05 Marks (Assignment) and 05 Marks online test (33.3 % syllabus)	05 Marks	07 Marks	07 Marks
Total Marks	20	20	20	20	20	20	20

Theory Evaluation:

- **Pre-University Examination:** The institute conducted Pre-University theory examinations for academic session 2013-14, 2014-15 as a practice for writing university examination.
- **Class-Test:** The institute conducted class-test for academic session 2013-14, 2014-15 on partial contents for continuous evaluation of students.
- **Sessional Examination:** The institute conducts two sessional examinations in mid and at the end of every semester. This help students to practice attempting the theory paper as per the university examination pattern. The sessional question papers are reviewed by departmental quality assurance cell (DQAC) to ensure the quality. The improvement examination is also conducted to facilitate students for improving their performance.
- **Tutorials/Assignment:** Students are continuously assessed throughout the semester to ensure problem solving and self-learning ability.
- **Online Test:** Multiple choice online examinations are conducted (Session 2015-16 Odd Semester) to gain hands on experience of online examinations like GATE, Campus Recruitment Examinations, etc

Practical Evaluation:

- Continuous evaluation contributes for 15 marks which are awarded to every experiment based on performance and viva voce.
- End semester internal practical evaluation contributes to 10 marks.
- The case study/mini project/ technical seminars are continuously evaluated based on the guidelines provided by the respective departments.

Project Evaluation:

- Projects are evaluated on predefined Rubrics and shared with the students.

- Periodic evaluation of projects is carried out by Project Review Committee (comprising of three faculty members including project guide) and suggestions/comments are recorded in project diary.
- Final evaluation is carried out by mentors/industry experts/alumni along with Project Review Committee and guide.

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

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

Response:

The institute practice well-defined continuous internal assessment process. It includes theory course assessment for 20 marks, laboratory work assessment for 25 marks and project assessment for 75 marks as per university marking scheme. Once the core committee approves the evaluation scheme framed by IQAC, the same is shared with students.

The assessment mechanism for theory courses:

The internal assessment contributes to 20% of total course marks.

- Sessional – I and Sessional – II contributes for 10 marks (5 marks each), out of a total weightage of 20 internal marks.
- Sessional examinations are conducted on 50 % of course contents.
- Marking scheme/model answer papers are displayed on the notice boards for the students after sessional examination of each subject.
- The answer books evaluation is done within 3/4 days after sessional examination.
- A course teacher shows the answer books to students and discusses their performance and scope of improvement. Every course teacher takes the signature of students on answer sheets.
- Tutorials / assignments, viva voce contributes for remaining 10 marks of theory assessment.

Evaluation Parameter	Internal Marks (20)
Sessional-I Exam	05
Sessional-II Exam	05
Tutorials, Assignments, objective test, class test, presentations etc.	10

The assessment mechanism for Laboratory work:

- Students' laboratory experiment performances are continuously assessed. The assessment is based on experiment performance, viva voce and end semester internal examination.

Evaluation Parameter	Internal Marks (25)
Experiment conduction, performance, obtained results, graphs, viva voce exam.	15
End semester final internal practical examination based on performance and Viva voce examination.	10

- Assessment for technical seminar, mini project, and case study are defined by respective departments due to varied nature of evaluation aspect at various departments. To assess student's performance in activities such as internships and aptitude course, incentive marks are awarded over and above the regular assessment.
- Department QAC keeps quality check of assessment processes periodically.
- Semester/year wise academic assessment of students makes the assessment mechanism robust and transparent.

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

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

Response:

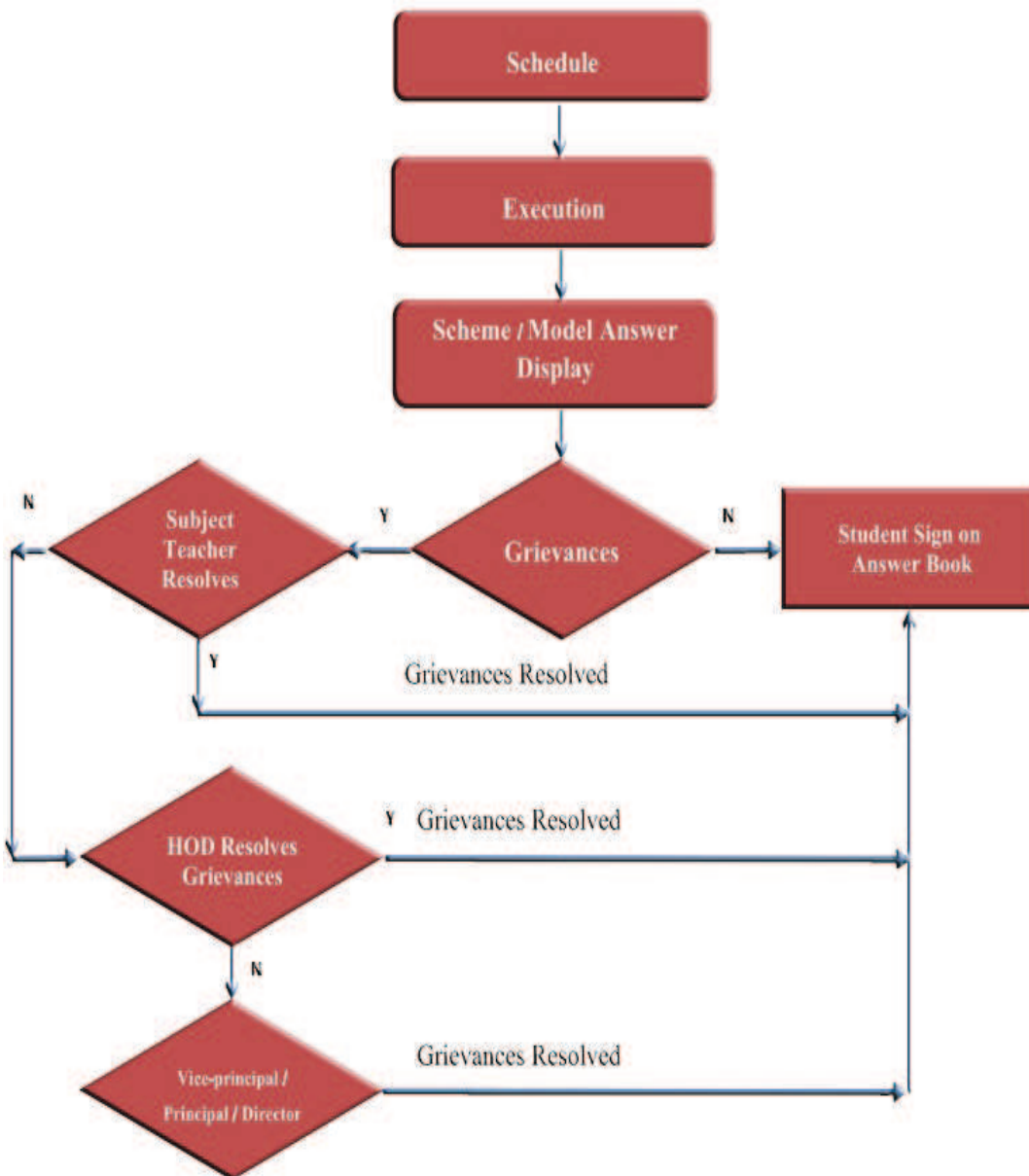
The Institute is affiliated to RTM Nagpur University and follows the examination scheme provided by the university. The university has a well-defined examination grievances redressal mechanism.

The Institute focuses primarily on avoidance of examination related grievances. Following mechanism provides easily accessible machinery for settlement of grievances.

- The sessional examination schedules and evaluation parameters are defined in advance and shared with faculty members and students.
- Faculty members share Marking Scheme/Model Answer Sheet of their subjects with the students and evaluate answer books within 3/4 days after sessional examination.
- The valued answer books are shown to students for grievances related to evaluation, discussion on scope of improvement and they are required to sign on the answer book.

- Unresolved issues if any are brought to the Head of the Department.
- Improvement examination helps students to improve performances of sessional examinations.
- Course wise internal marks scored by students are compiled at the end of a semester. Students can see their marks and sign the internal marks sheet. Subject teacher and if required Head of the Department resolves any grievances related to internal marks.
- If the grievances are not resolved by head of the department then the grievances are discussed with Vice-Principal, Principal and Director.
- The students can always bring their grievances to authorities with the help of online feedback mechanism. Student feedbacks are collected twice in a semester.

Mechanism for Sessional Examination Execution and Related Grievances:



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

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

Response:

The institute takes every effort for the academic calendar adherence with respect to the conduct of continuous internal evaluation (CIE). The institute IQAC/QAC prepares academic calendar in accordance with university academic calendar.

The Institute academic calendar is shared with the students and faculty members. The Institutes academic calendar indicates dates for commencement of classes, student feedback, sessional examinations, improvement examinations, final year project seminar, last day of teaching, course end survey, remedial classes, university examinations, co-curricular activities.

The IQAC/QAC also defines Continuous Internal Evaluation policy. Faculty Members plan execution as per policy with the help of teaching plan, tutorial plan, tutorial sheets, sessional question papers, CO-PO attainment record and result analysis.

- Students' performance in theory courses are evaluated based on two sessional examinations. The evaluation of the answer books is carried out within 3/4 days after the examination. The students are given an opportunity to improve sessional performance through improvement examinations, conducted one/two weeks after sessional examinations.
- Tutorial lectures are also used for continuous evaluation of theory course to evaluate students' performance through presentations, assignments, technical quiz, crosswords and alike. Tutorial lectures are conducted on regular basis as defined in time table.
- The internal practical evaluation is done through regular journal assessment, performance of experiments, obtained results, graphs and viva voce.
- Project groups maintain project diary which contains the detailed record of the project progress and its evaluation. Individual student's performances in group project are evaluated twice in a semester.

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

2.6 Student Performance and Learning Outcomes

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

Response:

The Institute has stated learning outcomes for its program to nurture students for employment skills, higher education, and entrepreneurs. These outcomes are primarily based on Engineering Graduate Attributes' requirements. The Program Outcomes, Program Specific Outcomes are published at various sections of the Institute

- College website <http://www.stvincentngp.edu.in/mechanical/#tab-id-2>
- Corridors
- HOD Cabins
- Laboratories
- Prospectus
- Orientation program for newly appointed faculty members
- Department level workshops & guest lectures
- Events with involvement of stakeholders viz. Alumni meet, Parents meet, Advisory Board meetings etc.
- Orientation Programs for first and second year students.
- Practical records

To define course outcomes, faculty members are divided in groups as per their area of interest. These groups draft the course outcomes by considering the opinions of concerned stakeholders and finalize it in consultation with respective HOD. The course teachers discuss course outcome with students at the start of the course and during the lectures. COs are also incorporated in sessional examination question papers of respective subjects. Course outcomes for laboratory courses are circulated to all the students and are included in journals which lead to proper understanding of COs to all the students.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document

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

Response:

The attainment of Program Outcomes(POs) and Program Specific Outcomes(PSOs) and Course Outcomes(COs) are measured regularly. PO and PSO are mapped to CO and assessment tools for measuring the attainment of Course Outcomes are as follows:

1. Direct Assessment Tools:

The assessment tools for CO are broadly categorized into internal and external assessments.

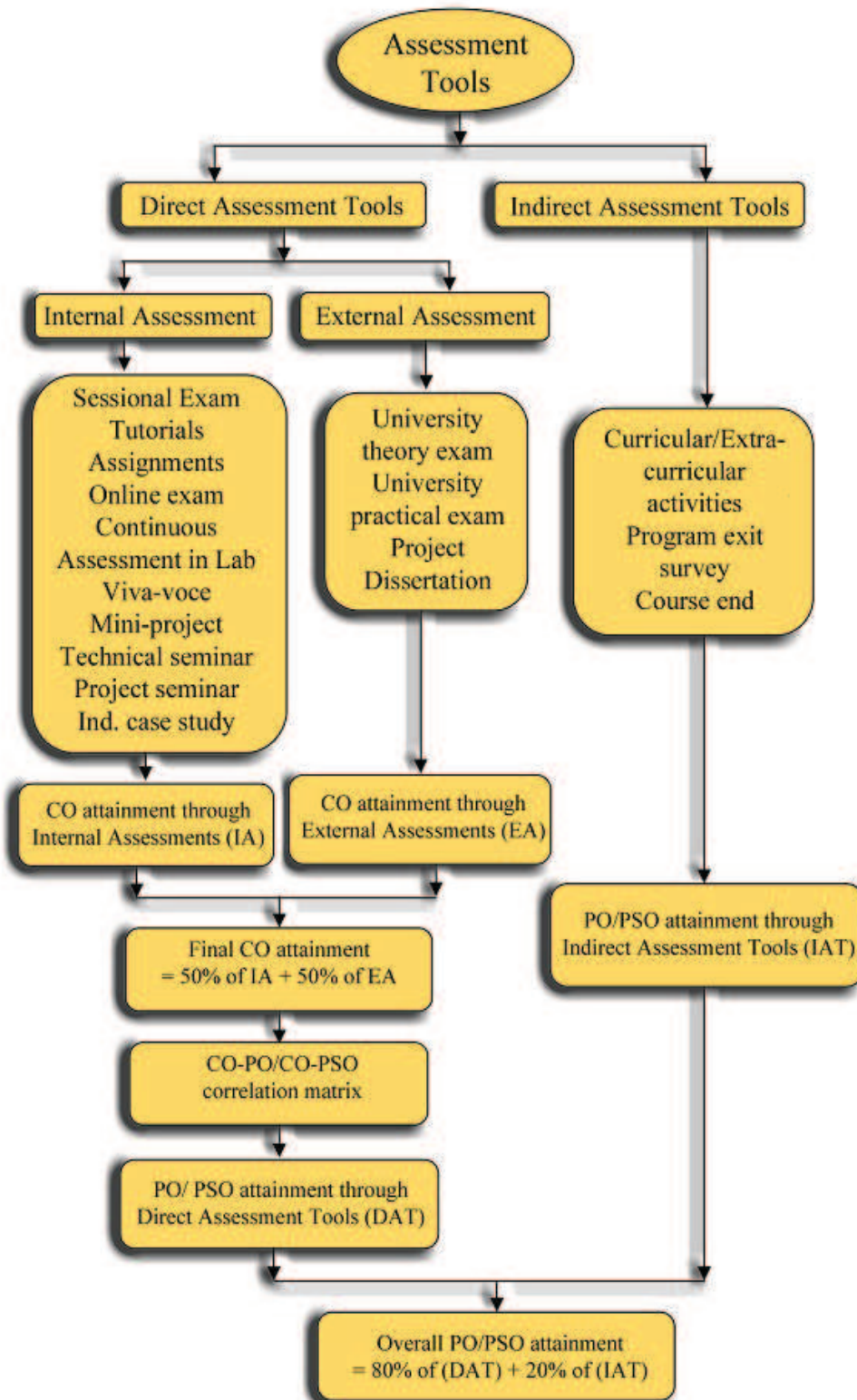
- Internal assessment tools comprise of sessional examinations, assignments, online examinations, class test, practical, viva, subject seminars, and project presentation.
- External assessment tools comprise of University Theory Examination, Practical Examination, and Project Dissertation.

2. Indirect Assessment Tools:

The Indirect assessment tools are used to measure the attainment of PO and PSO.

- **Alumni Feedback:** Collected to know the recent trends in the fields and the knowledge to be provided beyond syllabus.
- **Employers Feedback:** Collected to know their requirements and expectations and to initiate actions to meet the current industry requirements.
- **Industry Personnel Feedback:** Suggestions and opinions of the industry experts help to make appropriate modifications/addition in the curriculum to prepare the student to work in the industry.
- **Group Activities:** Observations and feedbacks are collected from the various Co-curricular & Extra Curricular activities conducted during the session
- **Exit Surveys:** The graduating students provide feedback based on the overall observations in the department / institute during their course.

Process for Attainment



- Each course outcome evaluation impact is observed though different attainment level
 - L1: 40% students scoring more than 40% marks =1
 - L2: 50% students scoring more than 40% marks =2
 - L3: 60% students scoring more than 40% marks =3
- Questions in the sessional question papers are set to map COs. Average of marks scored by students

in respective question is used to define CO attainment level. This process is followed for each question in the paper.

- All the evaluation tools are used to measure CO attainments. Depending on the average marks scored by students, CO attainment level is defined. The attainment is defined as Slight-1, Moderate-2 and Substantial-3 levels.
- The University examination is conducted on complete syllabus of the course, hence all CO's are considered for the attainment. Depending on the average marks, CO attainment level is measured.
- For laboratory courses, course outcomes are mapped with experiments. COs attainment is measured on the basis of continuous assessment
- In the university practical examination CO attainment is based on the average of marks obtained by the students in the external examination.
- Internal and External CO attainment is used together to find the consolidated attainment for each subject. The external and internal assessment tool contributes 80% and 20% in the consolidated attainment.
- Each CO is mapped with the corresponding PO & PSO with its level of correlation. PO attainment through the corresponding CO can be achieved through the average CO attainment mapped with the corresponding POs.
- The indirect tools are mapped according to the questions in the survey forms and the responses are mapped for the attainment of the POs & PSOs.

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

2.6.3 Average pass percentage of Students

Response: 96.98

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

Response: 482

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

Response: 497

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.35

NAAC

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

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

Response: 0.28

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0.277	0	0

File Description

Document

List of project and grant details

[View Document](#)

Any additional information

[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 18.8

3.1.2.1 Number of teachers recognised as research guides

Response: 25

File Description

Document

Any additional information

[View Document](#)

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

Response: 0.08

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

Response: 2

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

Response: 129	
File Description	Document
Any additional information	View Document

3.2 Innovation Ecosystem

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

Response:

The institution is setting up an Incubation Centre to promote innovation by creating an ecosystem that is conducive for the growth of start-ups and nurture entrepreneurship in those people who have a passion for knowledge generation and mentoring.

The objectives of setting up the Incubation Centre are:

1. To create physical infrastructure and support systems necessary for business incubation activities.
2. To facilitate networking with professional resources, which include mentors, experts, consultants and advisors for the incubatee companies.
3. To link higher education resources.
4. To promote and facilitate knowledge creation, innovation and entrepreneurship activities.

Thrust Areas of Proposed Incubation Centre

- Mobile and Information Technology
- Internet of Things(IOT)
- E-commerce
- Electronics Design and VLSI Design
- CAD/CAM Applications
- Software based Simulation and Optimization

Although the Incubation centre development is in process, the institute had already sowed the seeds of Management Information System (MIS) in year 2008-09 with a view to help students to gain experience of software development. Many passed out students were involved in development of MIS.

MIS has the following objectives:

- To relocate from existing Manual System to Software based (online) system.
- To enhance system effectiveness.
- To provide easy access to the system with local subsystem facility.
- To enrich student knowledge in MIS domain.

The MIS development started with the view of implementing independent modules and to add new modules subsequently.

- In Session 2008-2009, an Intranet Portal is developed, various formats are kept for downloading.
- The major advancement is achieved in the year 2010-11 with development of online attendance system and online student feedback system
- Other modules are implemented in subsequent years T&P, Library, Admission, Wi-Fi and others

In 2015-16 all the independent modules were integrated in one software MIS and many more modules were built in subsequent years.



The institute supported creation and transfer of knowledge by opening Tech Pallottine Development Center (TPDC) in the year 2012-13. Thereafter, TPDC took MIS development responsibility. TPDC also has a goal of promoting research and development activities.

The institute has also rendered consultancy services to CRE Simulations, Nagpur and N.T.P.C., Dadri (U.P.)

The institute has also established Entrepreneurship Development Cell (EDC). EDC works to develop Entrepreneurship qualities in students to launch their startups. EDC conducts many activities nurturing innovative spirit. Throughout the year, different programs such as Entrepreneurship & Innovation Program and Entrepreneurship Meet are carried out to provide industrial exposure to the students. Institute has signed Memorandum of Understanding (MoU) with the National Entrepreneurship Network (NEN) under

which various programs and Entrepreneurial courses are run in the campus for experiential learning.

The institute is also associated with Lemon School of Entrepreneurship for various Entrepreneurial workshops and activities. The students are encouraged to participate in various innovation and Entrepreneurial competitions like:

- TECHTOP-“12th National Innovation Challenge”
- “Transform Maharashtra”
- “Innopreneurs 2017”-National Level Competition on Innovative Start Up Idea
- “Entrepreneurship Educators Program”- By WadhvaniFoundation
- Participation in national level competitions - TEXAS INSTRUMENTS & 9th India Innovation Initiative 17
- Start Up Mela

File Description	Document
Any additional information	View Document

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

Response: 110

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

2017-18	2016-17	2015-16	2014-15	2013-14
39	16	28	16	11

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

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

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

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

Response: Yes

File Description	Document
e- copies of the letters of awards	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0.2

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 1

3.3.3.2 Number of teachers recognized as guides during the last five years

Response: 5

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

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

Response: 1.38

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

2017-18	2016-17	2015-16	2014-15	2013-14
34	17	29	26	73

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

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

Response: 1.21

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

2017-18	2016-17	2015-16	2014-15	2013-14
41	19	37	21	39

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

3.4 Extension Activities

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

Response:

Human Dignity, Social Responsibility, Fulfilling Commitments, Professional Leadership and Mutual Trust are the Tech Pallottine Values. The institute believes that talents, skills and knowledge are the assets to make positive change in the society across caste, creed, gender, and religion. Therefore, the institute encourages its staff and students to participate in various social activities for social and holistic development. The institute through National Service Scheme (NSS) unit makes every effort to live up to Tech Pallottine Values.

The objectives of the unit are as follows:

- Understand themselves; identify needs and problems along with their solutions in relation to the community in which they work.
- Develop competence required for group living among themselves along with sense of social and sharing of civic responsibility.

- Acquire leadership qualities, democratic attitudes, capacity to meet emergencies and natural disasters by developing national integration and social harmony.

The activities reflect the essence of democratic living and uphold the need for self-less service. The institute helps the students to develop a sense of appreciation to other person's point of view and also show consideration to a community. Ultimately, the welfare of an individual depends on the welfare of the society as a whole and therefore, the students strive for the well-being of the society.

The programmes "Me for My Nation" and "Kargil Vijay Diwas" are conducted to cultivate patriotism in students. Tree Plantation for a better and greener tomorrow, Felicitation of Housekeeping staff, Eco Friendly Ganesh Idol Immersion, students' visit to nearby schools, Street play on "Position of Women in Indian Society", Swachchata Abhiyan in nearby villages, blood donation camp, AIDS Relief Drive, and Eye donation awareness programme are conducted to sensitize students to social issues and holistic development.

The institute has also organized seminars on Green Technology and Road Safety for the students. The Management and staff members of the institution extend financial help to non-teaching staff and students for their medical treatments.

The institution's Tech Pallottine Social Forum organizes a Donation Drive of cloths and things of basic needs, to help under-privileged people in the society. This helps to create awareness towards social responsibility amongst the students.

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

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

Response: 1

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

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

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

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

Response: 78

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

2017-18	2016-17	2015-16	2014-15	2013-14
17	15	13	14	19

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

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

Response: 17.96

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

2017-18	2016-17	2015-16	2014-15	2013-14
512	275	84	430	420

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

3.5 Collaboration

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

Response: 475

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

2017-18	2016-17	2015-16	2014-15	2013-14
194	117	57	66	41

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

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

Response: 30

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

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

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

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

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

Response:

The institute has well maintained infrastructure consisting of ICT enabled classrooms, tutorial rooms, laboratories, computing facilities, library and workshop for effective learning environment. Considering the adequacy of these facilities, AICTE approval is received every year with zero deficiency report. To keep pace with growing demands of engineering education, the college has significantly enhanced the infrastructure.

The physical infrastructure consists of 30 classrooms, 9 tutorial rooms, 65 laboratories and 5 seminar halls.

Library:

- The Central Library of the institution is spread over 824 Sq.m.
- The Central Library of the College is well furnished in accordance with the AICTE norms. It is well equipped and computerized, rendering services for effective and efficient operational use.
- Digital Library with e-books and e-journals facilities.
- Printed National and International journals.
- Library has high end server. Faculty members and students can access learning material through it.
- All departments have departmental library.

Laboratory:

- Well-equipped laboratories are available in the institution for effective conduction of laboratory courses.
- Virtual lab facility of IIT Bombay is available in the institution.
- All departments have their own specialized software in their laboratories and institute is promoting more use of open source software.
- The central workshop has additional space and facilities for fabrication of student's projects.
- Language lab is available to enhance the communication skills of students.

Computing facilities:

- The institute has sufficient number of computers as per AICTE norms.
- Each department is provided with computing facility to meet the requirements.
- Personal Computers are provided to all the faculty members.
- Laptops are made available to the Head of the Departments and senior faculty members.
- Internet facility of 110 Mbps bandwidth is available.
- Additional software such as MATLAB, Multisim, Ultiboard, Oracle 10 g, Autocad ,Turbo c++, P-sim, Labview, Pro Engineer Wildfire,Hypermesh10,Simulation CNC Lathe & Milling machine, Tally 9, Coral Draw, Adobe premier, Adobe Pagemaker, LocalG (NPTEL video streaming software) and Orell Language lab software.

The institute has developed **E-Yantra (Embedded and Robotics) lab sponsored by IIT Bombay** where students can do research & project work in addition to the regular curriculum. These facilities are utilized during and beyond college hours, to conduct certificate courses, co-curricular activities / extra-curricular activities, T&P(Training and Placement) activities and preparation for various competitions. The **IIT Bombay Remote Center** for outreach program is developed to conduct various workshops on Technical Skills, Financial Literacy, Machine Learning and Foundation Program in ICT for Education.

For the physically impaired (Divyangjan) students, institute provides ramps and elevator and other facilities. For identifying malicious activities in campus, the Electronic Surveillance System has been installed. Separate housekeeping and security services are outsourced for security and cleanliness of the Institute.

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

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

Response:

The Institute is proactively involved in overall development of the students. Due importance is given to groom students in sports and cultural activities. A group of faculty members is assigned the task of meticulous scheduling of sports and cultural activities. Adequate facilities are provided for extra-curricular activities.

Sports facilities for Indoor & Outdoor sports are made available. Table-Tennis & Badminton courts are available for Indoor games. Outdoor game facilities like Basketball, Volleyball, Football, Cricket, Badminton, Table-tennis, Kabaddi, Kho-Kho, Chess, Athletics, Handball, Throw-ball are made available.

Game	Area	Remark
Basketball Court	420 X 2	Outdoor
Football / Cricket Ground	5500 X 1	
Volleyball Court	162 X 2	
Tennis Court	195.62 X 1	
Badminton Court (Girls Hostel)	200 X 1	Indoor
Badminton Court (Boys Hostel)	100 X 1	
Table-Tennis	4.1785 X 2	

In addition to this a well-equipped Gymnasium, Expert coaching in few games is also made available to

the students. Institute has tie up with SureTech hospital and Research Center, which is located 0.5 km away from the college.

National Service Scheme unit of the Institute is instrumental in organizing various social activities. Students participate in different inter department sports competitions & national level competitions. Students are also members of NCC open unit.

Yoga & Meditation hall (Room no BT-09) is available with recreational facilities. Students are prepared physically and mentally for the integration of their physical, mental and spiritual growth. Yoga day is celebrated on 21st June every year.

Institute has holistic development cell which is proactive in various cultural activities. Different events are organized under holistic development cell. Students participate in various cultural activities in intercollegiate competitions. Open space is available in between Academic Block-A & Block-B for the cultural activities. Annual cultural fest INSIGHT is organized every year to groom students' organizational skills and talents. The event consists of Inter-Collegiate competitions. Student Activity Center(Room no BG-08-Recreation centre) is available for the students where all the required facilities are made available.

File Description	Document
Any additional information	View Document
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

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 44

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document
Link for additional information which is optional	View Document

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

Response: 20.68

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five

years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
143.15	71	75	72.5	45

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document
Any additional information	View Document

4.2 Library as a Learning Resource

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

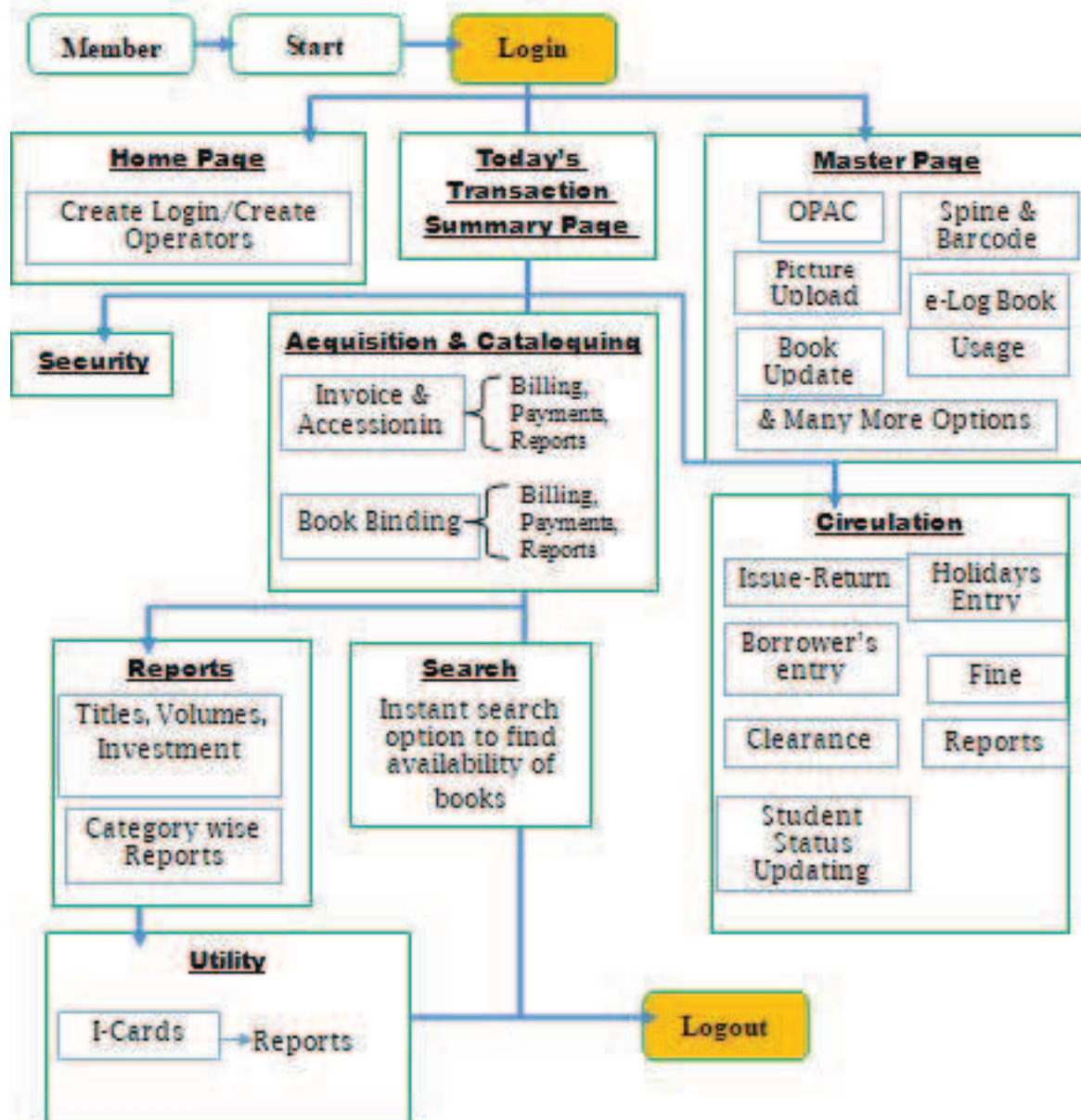
Response:

The institute has well equipped library with carpet area 824 Sq.m which includes reading room with seating capacity for 180 learners. Digital library is also available. Book bank facility is available for everyone and special book bank facility is also available for the economically backward students. It has total of 5355 number of titles, 29299 numbers of books, 369 hard bound journals, 794 project reports, 82 Journals, 22 magazines and 85 e-books. After college hours also Library facility is made available for the students. Apart from the central library, a small library as a departmental library is also established in each department.

Library offers Open Access System to students and staff members to access the reading materials of the library. Remote access of the library is also provided to all the students & staff members of the Institute through their login outside the campus.

The institution has Integrated Library Management System software “LibSoft” (In house developed software & maintained by Tech Pallottine Development Center (TPDC)) which is barcode enabled and serves the purpose of partial automation. It helps library to give quick service to user and administer library functions easily.

Flow Chart Diagram for LibSoft



Features of Libsoft :

- Ease of Library administration
- Bibliographical details of the library collection and their availability.
- Online Public Access Catalogue (OPAC) can be searched from anywhere in the campus.
- University Question Papers (both print & e-format)
- Syllabus (both print and e-format)
- Project Reports (both print and e-format)
- e-resources : e-journals, e-books, e-list, e-contents
- e-Log book
- E-List
- Digital library – syllabus, university question paper, newspaper clippings, project report
- E-resources: e-books, e-journals, NPTEL, NDL.
- Log-in creation and updation of user accounts.
- Shows transaction of issue return of the day.
- Maintaining history of access by all the users.

- Updation, creation of record & status of I card.
- Maintaining procurement details such as invoices, ledger details & accession register.
- Generates lists and statistics of records, catalogues, users, use of the material, etc. based on specific filters / categories according to the particular needs. Reports can be exported in spreadsheets to use it in other applications.

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

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

Response:

Institute has sufficient budgetary provision to procure the books and other reading material as per the requirement of curriculum. Further to this institute is always willing to collect additional reading material to satisfy the needs of faculty members & students.

Central Library has collection of various rare books in both print and e-format. The users can access these from reference section and digital library. Rare books in e-format are downloaded from Rare book society of India (RBSI). This e-collection is available at digital library. The users can access these 101 rare books through intranet on MIS portal of the Institute through library Menu which helps students for knowledge enrichment.

Library is enriched with 119 reference books published by renowned publishers' viz. MGH, Thomson, Jaico, Oxford, Macmillan, PHI, Delmer etc. and these reference books deals with the different titles like centrifugal pumps, encyclopaedias, dictionaries, handbooks, national electrical code etc.

Also in addition 325 competitive examination related books are available such as GATE, UPSC, TOEFL, NET-SLET. These books cover different examination areas like reasoning, aptitude, objective type questions, computer etc.

Library reference reading section also provides to its users project reports, hard bound journals consisting a stock of 859 and 369 respectively, which help students in their final year projects.

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

4.2.3 Does the institution have the following:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

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

Response: 9.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
3.421	3.566	13.376	13.354	13.279

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

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

Response: Yes	
File Description	Document
Any additional information	View Document

4.2.6 Percentage per day usage of library by teachers and students	
Response: 12.89	
4.2.6.1 Average number of teachers and students using library per day over last one year	
Response: 258	
File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi
Response:
The Institute has affluent IT Infrastructure with Wi-Fi campus and 778 networked computers. Centralized Computer Center manages procurement and maintenance of computer equipments.
<ul style="list-style-type: none"> • All Departments submit their IT facility related requirements in the yearly budget. • Executive Committee approves the budget. • IT facility related, approved requirements are forwarded to the Computer Center for procurements.

Details of IT Facilities:

Sr No.	IT Facilities	Prior	Existing	Updated on
1	NAS	0	1	3/3/2018
2	Bar-code scanner of Library	4	--	--
3	Wi Fi access point	13	15	Jun 2018
4	Lease line	26 MBPS	110 MBPS	25/01/2018
5	CCTV	34	34	5/3/2018
6	Network Updation (Media Converter)	13	15	7/2/2018
7	IBM server (Web Server)	1	2	2012
8	Internet switches	54	57	11/07/2018
9	Graphics card	0	1	Dec 2017
10	PC's connected to LAN	754	754	10/04/2018
11	Printers	54	54	Jun 2018
12	LCD Projector	39	42	20/08/2018

Details of Computing Facilities:

Sr No.	Item	Quantity
1	Desktop Computers	754
2	Servers	4
3	Laptop and notebooks	24
4	Laser Printer (b/w)	31
5	Colour Printer	2
6	All in one Printer	16
7	LCD Projectors	42
8	Scanners	1
9	Finger Print Scanner	3
10	Bar-code Scanner	4
11	Digital Copier	4
12	12 Digital Fast copier(for exam)	1

Details of Software:

Sr No.	IT software	Prior	Existing	Updated on
1	Antivirus Symantec	130	130	29/08/2017
2	Antivirus Seqrite	0	320	25/09/2017

Details of Perpetual Licenses Software:

Sr No.	IT Softwares	Details
1	MATLAB	45 seats
2	Multisim	5 Seats
3	Ultiboard	5 Seats
4	Oracle 10 g	5
5	Autocad	32
6	Turbo c++	30
7	P-sim	5
8	Labview	5
9	Pro Engineer Wildfire	50
10	Hypermesh10	125
11	Simulation CNC Lathe & Milling machine	6
12	Coral Draw	1
13	Tally 9	Multi-user
14	Adobe premier	1
15	Adobe PageMaker	1
16	LocalG (NPTEL video streaming software)	1
17	Orell Language lab software	30

Institution has Microsoft Windows operating system volume licenses, OEM, FPP, Microsoft Office,

Visual Studio, Microsoft SQL server licenses. Antivirus software license has been updated every year.

Open source :

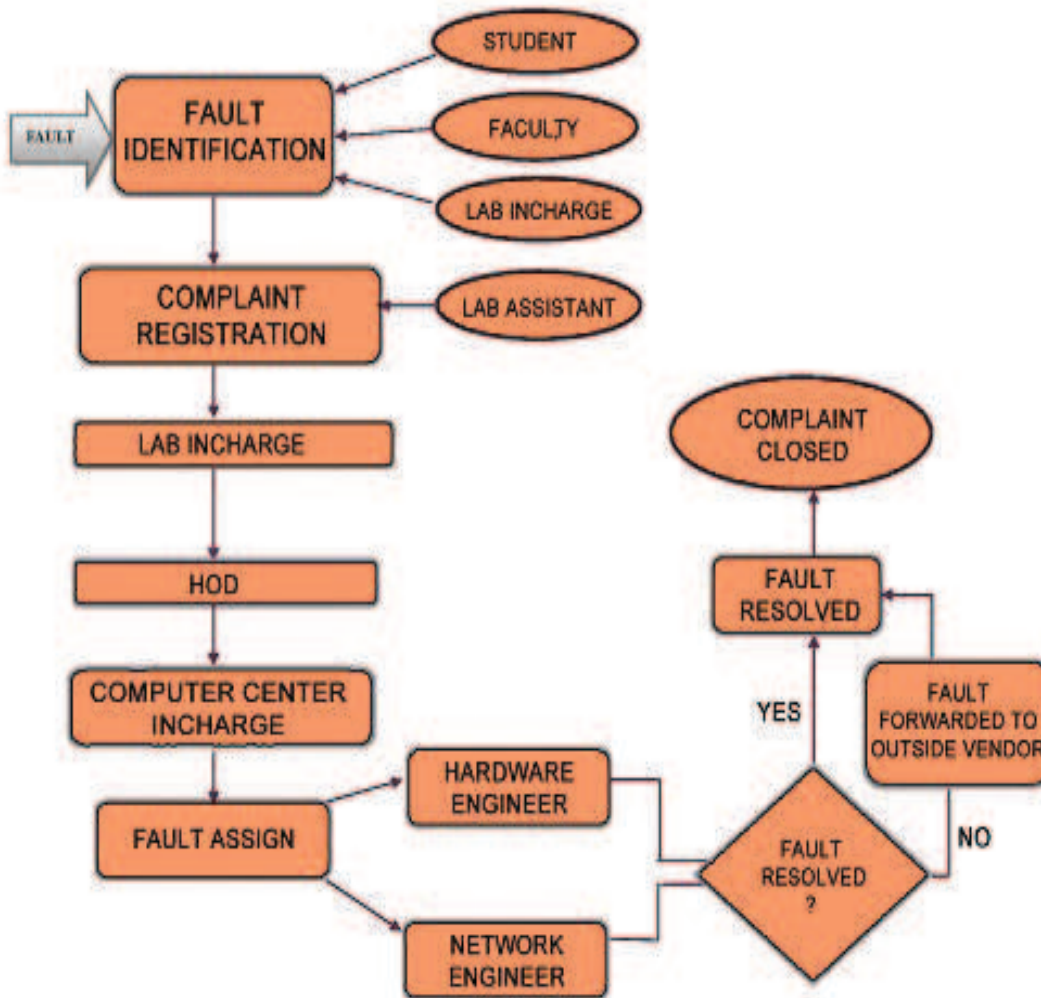
Centos 5/6, Ubuntu 17.0, Netbeans IDE 6.8, JDK 8.0, Eclipse, Firefox 58, Xilinx

Details of Bandwidth Updation:

Academic Year	Bandwidth of Leased line connection 1:1	ISP	Total Bandwidth
2013-2014	4 mbps 4 mbps	Reliance comm BSNL Telecom	8 mbps
2014-2015	4 mbps 4 mbps	Reliance comm BSNL Telecom	8 mbps
2015-2016	4 mbps 16 mbps	Reliance comm BSNL Telecom	8 mbps
2016-2017	10 mbps 16 mbps	TATA Teleservice BSNL Telecom	26 mbps
2017-2018	10 mbps 100 mbps	TATA Teleservice BSNL Telecom	110 mbps

Maintenance Procedure

- Students, Faculty members and Lab-Incharges identify the faults.
- Lab-incharge registers complaint with the help of lab assistant.
- Complaint forwarded to Head of the Department.
- HOD forwards complaint to Computer Center In charge.
- Computer center incharge assign complaint to Hardware / Network Engineer.
- If the complaint can be resolved at computer center then complaint is addressed, else it is forwarded to outside agencies for further process.
- Complaint resolved at out-side agency.



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

4.3.2 Student - Computer ratio

Response: 3.35

File Description	Document
Any additional information	View Document

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

>=50 MBPS

35-50 MBPS

20-35 MBPS

5-20 MBPS

Response: >=50 MBPS

File Description	Document
Any additional information	View Document

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

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document
Any additional information	View Document
Link to photographs	View Document

4.4 Maintenance of Campus Infrastructure

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

Response: 89.82

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

2017-18	2016-17	2015-16	2014-15	2013-14
331.09	366.46	369.62	395.11	414.85

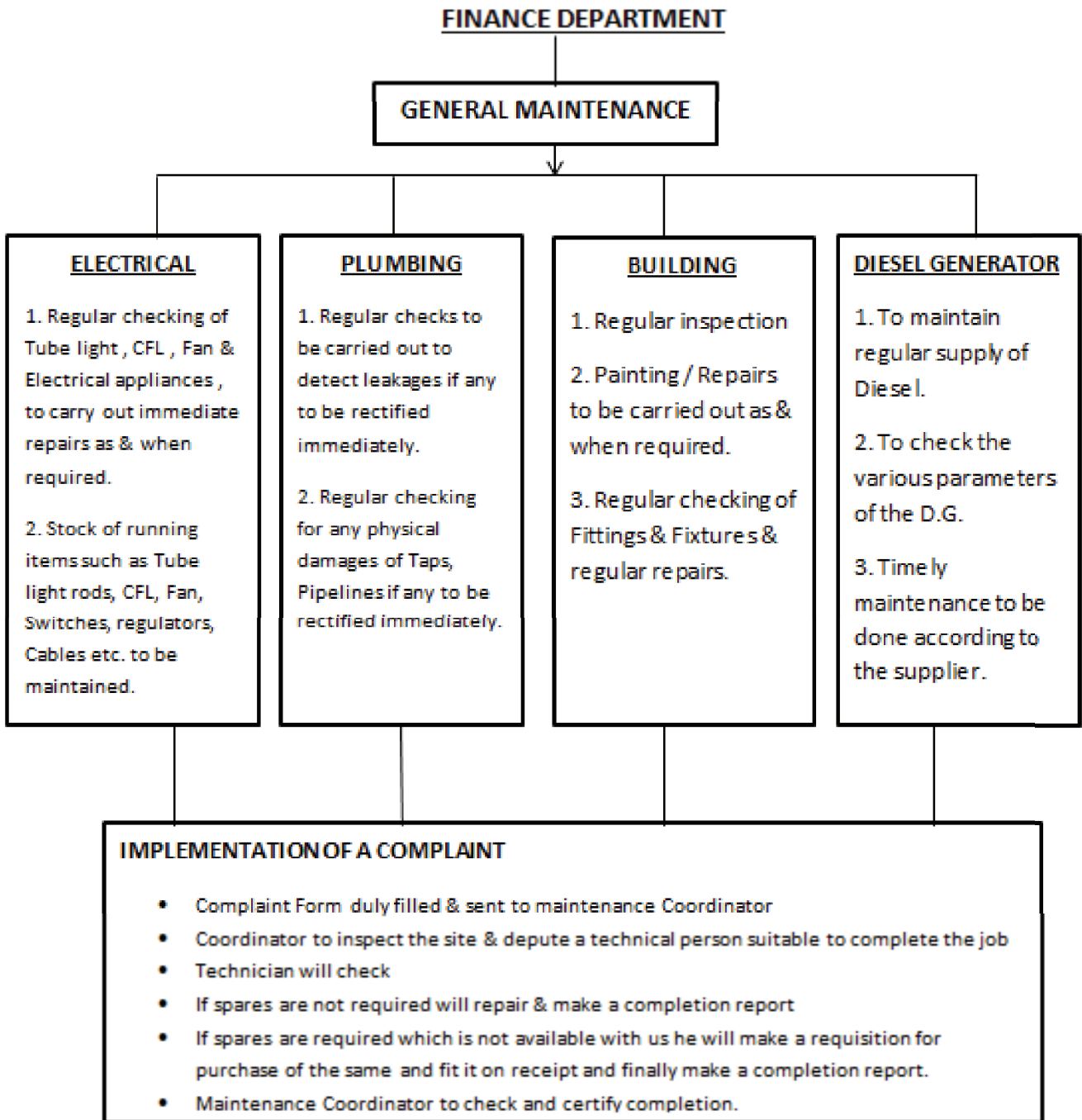
File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document
Any additional information	View Document

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 all requisite infrastructure like class rooms, faculty rooms, girls' common room, laboratories, and library. Few slots are exclusively reserved in regular time table to ensure effective utilization of the facilities. Concerned faculty members ensure the presence of students & conduction of activities.
- The Institute has in-house maintenance team for maintenance of all Physical, Academic, and Support facilities such as building, electrical, plumbing, classrooms, laboratories, Sports complex and Library.
- General maintenance team handles Electrical, plumbing and building related issues.
- Regular checkup of Electrical appliances is done by electrical maintenance staff and maintained with immediate actions.
- Plumbing related issues such as leakages/blockages are managed on time by Plumbing team.
- Regular infrastructure inspection helps to find repairs/paints requirements and the team arranges for the same.
- To keep the Diesel Generator operational, timely maintenance is outsourced.
- The Institute outsourced safety related facilities maintenance that includes: Lift, Fire extinguisher & Diesel Generators (Back up 82.5 KVA and 235 KVA).
- The Institute gives utmost importance to cleanliness and hygiene on campus. A team of 2 non-teaching & 14 housekeeping staff takes care of hygiene and cleanliness to provide a congenial learning environment.
- Classrooms, Staff rooms, Seminar halls, Laboratories, etc are cleaned and maintained on daily basis. The maintenance officer conducts periodic checks to ensure the efficiency/working condition of the infrastructure.
- Periodic maintenance checks by staff keep all facilities operational.
- A centralized Computer Center team maintains all software/hardware, CCTV & IT infrastructure related issues.
- Lab assistants under the supervision of the System Administrator maintain the efficiency of the college computers and accessories. The non-teaching staff is also trained in maintenance of laboratory and computer equipments.
- Parking facility is well organized. The campus maintenance is monitored through surveillance cameras. Proper inspection is done and verification of stock takes place at the end of every year.
- Central library has its dedicated human resource and the departmental libraries are taken care by the department office assistant and a faculty In-charge of the concerned department.
- Pest control of library books and records is done every year by the Maintenance Department.
- All the departments take care of timely maintenance of the laboratory equipment. Most of the maintenance work is completed during summer break and a close monitoring of maintenance activities is a prime responsibility of head of the departments.
- The Institute has a separate centralized level maintenance functions for every repair of laboratory instruments and equipment. Special trained non-teaching staff functions as maintenance in-charge. Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the Administrative office.
- Process for Repair/replacement complaints
 - Dully Filled Complaint Form is forwarded to Maintenance Coordinator.
 - Coordinator inspect the site & depute a technical person / suitable person for maintenance.

- If in-house repair is not possible then the work is outsourced
- Signature of complaining person is taken on the concerned form once the complaint is resolved



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

NAAC

Criterion 5 - Student Support and Progression

5.1 Student Support

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

Response: 48.35

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

2017-18	2016-17	2015-16	2014-15	2013-14
829	1083	1020	938	768

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

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

Response: 1.39

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

2017-18	2016-17	2015-16	2014-15	2013-14
35	29	25	23	21

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

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

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

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

Response: 24.31

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

2017-18	2016-17	2015-16	2014-15	2013-14
703	509	312	449	350

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 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 22.25

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

2017-18	2016-17	2015-16	2014-15	2013-14
985	417	318	258	134

File Description**Document**

Details of the students benefited by VET

[View Document](#)

Any additional information

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Any additional information

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 32.13

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

2017-18	2016-17	2015-16	2014-15	2013-14
292	107	98	128	115

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

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

Response: 5.39

5.2.2.1 Number of outgoing students progressing to higher education

Response: 26

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

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

Response: 100

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

2017-18	2016-17	2015-16	2014-15	2013-14
15	29	9	4	3

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

2017-18	2016-17	2015-16	2014-15	2013-14
15	29	9	4	3

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document
Any additional information	View Document

5.3 Student Participation and Activities

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

Response: 29

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

2017-18	2016-17	2015-16	2014-15	2013-14
7	7	3	6	6

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

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

Response:

The Institute has active Student Representative Council (SRC) of two top rank students of every class. Equal opportunity is provided to other students as Class Representative (CR), who is an elected member of class.

Functional objectives of Class Representatives (CR) and Students Representative Council (SRC) members are to:

1. Represent the class as a leader in various administrative bodies.
2. Organize and promote various co-curricular and extra-curricular activities.
3. Assist in organizing Annual Social Festival (INSIGHT).
4. Organize sports events.
5. Motivate students for the cultural activities at the institute level.
6. Organize Annual Technical Event (Technex).

Following committees have students' representation:

- **IQAC**

Student members of IQAC help to propagate quality policies adopted by the institution among the student fraternity and also help in projecting the student view point while taking any quality policy decision.

- **Students' Professional Societies**

Operations of these societies are managed primarily by the students under the guidance of faculty mentor.

Professional Societies available are:

- ISTE (Indian Society for Technical Education),
- REC (Renewable Energy Club),
- SAE (Society of Automotive Engineers),
- ISHRAE (Indian Society For Heating Refrigeration & Air Conditioning),
- IE(I) (Institution of Engineers(India)),
- CSI (Computer Society of India),
- IETE (Institution of Electronics & Telecommunication Engineers)

- **Anti-Ragging Cell**

Student members assist the institution in implementing rigid anti-ragging measures to make ragging free campus.

- **Grievance Redressal Cell**

The matters of harassment and suppression of any single individual are handled by grievance redressal cell. Student members can help other students to present the grievance in case the sufferers want the representation in absentia.

- **Institute Events**

All the cultural & sports activities (INSIGHT) and national level technical events (TECHNEX) are meticulously planned, coordinated and executed by this committee under the guidance of faculty in-charge.

- **National Service Scheme (NSS)**

To inculcate awareness of social problems among the students, NSS activities are coordinated and conducted by the students every year.

Together with these, the students are officially involved in –

- College Development Committee (CDC)
- Departmental Advisory Boards (DAB)

These associations are formed in order to develop leadership qualities among the students and to provide every student a platform to enhance his/her skills. Student involvement in various Cells, Events & Committees illuminates their profile and gives them an experience for lifetime.

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

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

Response: 24.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
33	30	18	18	23

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

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

Response:

The institute constituted Alumni Association in the year 2015-16 and various activities were undertaken since then. The Alumni Association is registered with Charity Commissioner, Nagpur in 2018

(Registration No: Nagpur/0000693/2018) with the following structure:

President	: Fr. Dr. Paul Chandrankunnel (Director)
Vice President	: Dr. Surendra V. Gole (Principal)
Secretary	: Mr. Rajendra B. Gowardhan (Vice Principal)
Treasurer	: Mr. Binu Joy Chelat
Member	: Dr. Sushant Satputaley, Mrs. Manali A. Patki, Mr. Sohail Ansari

The objectives of Alumni Association are:

- To reinforce the sense of belonging towards the alma mater and spirit of fraternity among alumni by providing a common platform for social and intellectual interaction; and establishing channels for effective communication.
- To act as facilitator in expanding scope and reach of alumni network through regional associations and activities; thereby forging long term relationships amongst alumni and Institute.
- Promote growth of the Institute through industry interaction (visits, guest lectures, and projects) for curriculum enrichment and mentoring by alumni for overall development of students.
- To be the ambassadors of the College in the milieu in which they are, and to extend assistance in the research and development programs of the College.

For execution of various activities, a team consisting of faculty members and alumni is functional. This team is involved in micro level planning and execution of various events like Annual Alumni Meet, Regional Alumni Meets (Pune, Bengaluru, New Delhi, Hyderabad and United States of America-USA), Alumni Interaction with existing students and webinar. A dedicated website is available for sharing of information with alumni.

Roles of Execution Team:

- Preparing annual plan with budget
- Delegation of work to team members
- Conduction of regular meetings
- Liaise with College Management
- Collaborating with regional coordinators
- Overall database management
- Publicity of Alumni Association activities
- Monitoring website and other social networking tools to ensure information is updated
- Mobilizing resources and managing events
- Planning, coordinating and conducting regional meets with the help of regional coordinators

Students on campus are benefited through alumni interactions in following areas:

- Summer Internship
- Industrial Visit
- Major Projects
- Skill Development Training
- Career Guidance
- Assistance for higher studies

- Assistance for placement
- Guidance for Defense Services

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

5.4.2 Alumni contribution during the last five years(INR in Lakhs) ? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	View Document

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

Response: 9

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	2	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document
Any additional information	View Document
Report of the event	View Document

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

The Institute is having very futuristic vision and mission to satisfy the need of today's competitive environment for the development of students, keeping societal values at the heart and professional ethos to uphold the spirit of learning.

Vision:

To develop a knowledge based society with clarity of thoughts and charity at hearts to serve humanity with integrity.

Mission:

To empower youth to be the technocrats of tomorrow with absolute discipline, quest for knowledge and strong ethos to uphold the spirit of professionalism.

Nature of Governance:

The institute is executing its governance through various decision-making bodies like Governing Body(GB), College Development Committee (CDC), Core Committee(CC), Executive committee(EC), Internal Quality Assurance Cell (IQAC). These bodies ensure all activities are performed to meet mission statement and fulfill vision statement.

- Based on the recommendations of the GB, Institute objectives are defined every year and are used to formulate departmental objectives.
- Core committee meets regularly to ensure implementation of institute / departmental objectives through various academic and non-academic activities.
- Principal / Vice-Principal conducts meeting with HODs, to plan, implement and review of effective knowledge delivery to students.
- Discipline coordinators ensure that students maintain discipline in the campus.
- The institute conducts activities under various student forums to make them aware about professional ethics and values.
- The institute has also introduced different skilling programs for students in collaboration with industries to lead them towards the excellence in technical education.
- The main focus is on the recent trends in technology with project-based learning, creativity and technology transfer through Industry-Institute Interactions.

Perspective Plan

The Institute has following Perspective Plans:

Short Term Goals (2018-2021):

- NAAC and NBA Accreditation.
- Institute Autonomy
- Foreign University Collaborations
- Research based system through training, collaboration programs
- Faculty and student development programs
- Project and problem-based learning environment in the institute
- Upgradation of Learning Management System

Medium Term Goals (2021-2024):

- To strengthen Industry Institute Interaction.
- Introduce master and research programs in all programs.
- Incubation Centre and Centre of Excellence (in various domains)

Long Term Goals (2024-2028):

- Setting up Research Centre in each domain of engineering programme

Participation of Teachers in decision making bodies

- Institute has GB, CDC, EC, CC, Principal /Vice Principal & HOD's Committee, IQAC, Departmental Advisory Boards for the decision making in the institute.
- Institute appoints senior teachers as a part of these bodies to ensure transparency and effective implementation of institute policies.
- For the various programs to be conducted by the institute, staff members meet, discuss, share their opinion and plan for the event and form various committees involving students.
- Staff members are also involved in deciding academic activities and examinations to be conducted in Institute & in preparation of annual budget of the Institute.

Sr.No.	Name of Decision-Making Body	Total Members	Teacher Members
1	Governing Body	13	02
2	College Development Committee	11	03
3	Executive committee	06	02
4	Core Committee	14	10
5	Principal /Vice Principal & HOD's Committee	08	08
6	Internal Quality Assurance Cell	21	13
7	Departmental Advisory Boards	11	03
8	Department Steering Committee	03	03

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

6.1.2 The institution practices decentralization and participative management

Response:

The institute supports decentralization and promotes the culture of participative management. Principal, HODs, faculty members and students play an important role in the decision making process.

- The Principal and HODs are responsible for the holistic and administrative activities of the institution and department respectively.
- Selected faculty members discuss and plan for the collection of various events and committees are formed to conduct the event smoothly. They actively participate in implementing the policies, procedures, and framework defined by the management.
- Students are actively involved in organizing activities of forums like IETE, IEDC, ISTE, IEI, CSI, SAE, E-Yantra, Technex- Technical fest, Insight-cultural fest, to bring their leadership qualities to lime light under the guidance of faculty.
- Principal / Director along with the core team of the institute is responsible for all the major financial decisions of the institute with governing body approval. The full time appointed financial administrator looks into the execution of the approval projects. Executive Committee consisting of Principal and Director is the approving authority for the financial decisions.
- Head of the department prepares plan and submits to executive committee for the approval. The department head is the one of a signatory to all purchase orders of the respective department.

Case Study: BUDGET

- Submission of requirement by departments at the end of the financial year with estimated value of the requirements in consultation with department faculty members & portfolio incharges.
- Verification of the documents by the executive committee and allocation of funds in consultation with HOD.
- Finalization of the budget as per the fund flow status of the institute in preparation of the institute budget.
- Final institute budget is approved with the sign and seal of the Principal.
- The institute budget is apportioned as per the fund flow of the institute and as per the need based requirements of the department.
- The year wise allocation of the budget including all departments: Electrical ,Mechanical, Electronics & Telecommunication, Computer, Information Technology, BS & H, & others considering various heads of allocation including equipment, software, maintenance, R&D, library, infrastructure, travel and miscellaneous.

Purchase procedures at departmental level/institute level includes :

- Departmental financial plan as per allocated budget
- Identify key areas of investment

- Invite Quotations / estimates for identified items
- Shortlist and select vendors in the presence of Principal/Vice-principal, Head of Department and the Financial Administrator.
- Issue of purchase order with the sign of the HOD and Financial Administrator
- Material received is entered in Master Stock Book
- Issue of material by the store with the copy of the bill to the concerned department.

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

6.2 Strategy Development and Deployment

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

Response:

The institute has perspective/strategic plan for most of the developments. One such development is discussed below:

Approval for new program - Civil Engineering

The College Development Committee on August 20, 2015, resolved to establish Civil Engineering department for further growth of the Institute. The same was shared by Director in the Governing Body on August 28, 2015 and was agreed upon by all members.

On August 11, 2016 in college development committee, Director updated the members about status of Civil Engineering branch. He informed that the Institute will be qualified to apply for new course after getting accreditation in 2 programs of the Institute.

On July 10, 2017 in Core Committee, Vice-Principal discussed about new branch Civil Engineering. On August 24, 2017, the same was shared by Director in college development committee. Director presented the idea of additional branch in Civil Engineering in GB held on 2nd September 2017 and finalized.

Institute's Civil Engineering faculty members visited prominent institutes and industry experts to prepare plan containing details of progressive requirements in terms of laboratory equipment, space, funds and manpower.

It was decided in Core Committee meeting held on January 30, 2018 to apply for civil engineering program as per the suggestion of Governing Body.

On April 11, 2018 approval from AICTE was received to start the additional program in Civil Engineering with intake of 60 from the next academic year 2018-19. The same was shared by Director in GB meeting

held on April 14, 2018.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document
Strategic Plan and deployment documents on the website	View Document

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

Response:

The Institute has well defined organizational structure to support participative management for decision making. Involvement of stakeholders of the Institute is reflected through organizational structure.

- Institution is managed by The Nagpur Pallottine Society. Society is governed by the Chairman.
- Institute has Governing Body, Director, Asst. Director, Financial Administrator, HR Manager & Registrar to function as a strategic planner for fulfilling the Institute's Vision and Mission.
- College Development Committee prepares comprehensive development plan of the Institute regarding academic, administrative and infrastructural growth and enable institute to foster excellence in curricular, cocurricular and extracurricular activities. Executive Committee is responsible for day to day activity of the institute, various requirements and budget approval.
- Core Committee is responsible for the overall development of the institute. It ensures that the guidelines of the Governing Body and CDC are followed to attain the institute level objectives. The committee meets regularly to discuss the academic performance and to take the decisions on academic, holistic, industry interaction, training & placement matters. Apart from this, Core Committee meets for decisions on important affairs as and when required.
- The Principal and Vice Principal provide overall leadership to implement the development plan.
- The Principal, Vice Principal & HODs plan and implement academic, co-curricular and extra-curricular activities.
- IQAC is responsible for the institute level quality assurance in academic, cocurricular & extracurricular activities. Departmental QAC is responsible for department level quality assurance.
- Department Advisory Boards help HODs for setting the departmental objectives and execution plan.
- Training & Placement department takes care of training of the students for enhancing employability and subsequently places them in various businesses and industries.
- Administrative department is responsible for institute administration and coordinates with statutory bodies.
- Institute has various centralized portfolios and cells for overall development of students like III cell, IEDC cell, SDC cell, ISTE, NSS etc.
- Student Council consists of Class Representative and 2 Student Representative Council members of each class and their inputs are taken in regular meetings at department level.

- The institution follows the service rules, recruitment policies and promotional policies according to the AICTE, UGC and DTE norms. Institute HR policy has complete details and uploaded on college website.

Grievance Redressal Mechanism:

The institute has grievance redressal mechanism in place. We have Internal Complaints Committee, Women's Grievance Redressal Cell, Anti- Ragging Committee as per AICTE / DTE norms. Students and faculties can give suggestions / complaints through suggestion boxes kept at various places in the campus.

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

6.2.3 Implementation of e-governance in areas of operation

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

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

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation Planning and Development, Administration etc	View Document
Any additional information	View Document

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

Response:

The administrative bodies of the Institute regularly meet & discuss on various issues. Minutes of meetings are maintained by the Institute. Suggestions received by committee members are identified and actions are taken accordingly. Effectiveness of one such activity is the establishment of e-Yantra laboratory in association with IIT Bombay.

Activity: E-Yantra Lab in association with IIT Bombay

- Dr. Thomas Mathew in Governing Body suggested to visit IIT, Bombay and study the structure of collaborative program.
- Two faculty members from department of Electronics & Telecommunication visited IIT, Bombay and studied e-yantra project financed by Ministry of HRD.
- Institute submitted the proposal for the collaboration of the same which was accepted by IIT, Bombay and then e-Yantra lab was established on 29th July 2016.
- Various activities carried out in e-yantra lab:

Sr.	Academic Year	Name of Event	Remark
1	2015-16	e-Yantra Robotics Competition (eYRC)	A team participated in eYRC competition & received a Robot worth Rs. 27,000/-
2	2016 -17	e-Yantra Robotics Competition	A team is selected for competition
3	2017-18	Conducted workshop on IOT	By faculties of ESR lab
4	2017-18	Conducted STP on Embedded system & IOT	By faculties/Students of ESR lab
5	2018-19	Conducted workshop on IOT	By faculties/Students of ESR lab

- Various achievements:

Sr.	Academic Year	Name of Event/ Competition	Amount
1	2016-17	Faculty Team Completed the TBT challenge with Class A certificates & cash prize	6000/-
2	2017-18	Contribution by Faculty in Technical writeups at IITB for eYRDC	received honorarium of Rs. 3000/- & 7000/-
3	2018-19	Student team Received best internship award.	Certificates
4	2018-19	Contribution by Faculty in making Video tutorial for IITB under eYRDC	Honorarium amount to be received

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

6.3 Faculty Empowerment Strategies

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

Response:

Human resource plays a vital role in the development of any institute. In order to keep the teaching and non-teaching staff members motivated institute provide support to activities required for their professional development.

Following is the list of various welfare measures available for teaching and non-teaching staff members associated with the Institute.

Welfare measures for teaching and non-teaching staff members:

Faculty development programmes are arranged for teaching and non-teaching staff with intention to make them aware about latest technology and skills used in the field.

Support is provided in terms of financial assistance /duty leaves & others for :

- Attending Faculty Development Programmes
- Attending and presenting research papers in national and international conference
- Publishing research papers in reputed journals
- Support to acquire professional qualification and higher studies
- Support to participate outstation conference / workshop
- Support to conduct programme to upgrade skills
- Filing Patents
- Recreation tour
- Gratuity
- Medical Insurance Scheme for non-teaching staff members
- Additional Retirement benefits
- Group Insurance
- Financial support(Assistance / Loan)
- Staff Welfare Fund
- Accident Insurance Scheme for all employees & students
- Security & Vigilance on campus
- Counseling facility
- Grievance & Appeal Committee

File Description	Document
Any additional information	View Document
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: 26.81

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

2017-18	2016-17	2015-16	2014-15	2013-14
57	21	38	14	43

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	View Document
Any additional information	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: 5.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
12	3	6	1	4

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

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

Response: 46.3

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

2017-18	2016-17	2015-16	2014-15	2013-14
93	83	59	21	47

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

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

Response:

The Institution has Performance Appraisal System for teaching and non-teaching staff.

The Performance Appraisal System for teaching staff is as follows:

The Institute follows recruitment and promotional norms of UGC/AICTE. In order to encourage the faculty members by considering their performance with respect to deliverables, an appraisal system is implemented in the institute. The Process and Parameters considered for this are:

- Students Feedback of every faculty is collected to judge the teaching ability and effectiveness. (Weightage 40%)
- Faculty academic audit of every faculty member is carried out to assess preparedness with respect to teaching-learning process, outcomes and related documents (Weightage 20%)
- Appraisal is carried out to validate the contributions of each faculty member which also include assessment on the basis of individual's various behavioral factors. (Weightage 40%)

The Performance Appraisal System for non-teaching staff is as follows:

The Institute believes that performance appraisal of all non-teaching employees (except house-keeping staffs and security guards) is essential for the achievement of its commitment to provide quality education for all the students in its care. The Institute also believes that the performance appraisal process provides opportunities for staff development and encourages the professional growth of each staff member while

acknowledging and affirming the efforts, involvement and professional progression of its entire employee.

Procedure:

Performance appraisal will be carried out by the immediate reporting officer in the presence of the concerned employee.

Filled form will be submitted to the HOD for his or her approval and remarks. After which the HOD will forward the same to the HR.

Every column needs to be filled with due diligence.

The employee will sign “Non-Teaching Appraisal Sheet” as evidence of having read it and discussed it with the immediate supervisor.

In the final evaluation first three main points average score will be taken (out of 5).

If the employee has been cautioned or reprimanded owing to any unacceptable behavior in relation to students, colleagues or any stakeholder; notify them in the remark section.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The institution conducts internal and external audits regularly.

- Internal financial audit is carried out by college appointed auditors.
- The accounts of the College are audited regularly as per the Government rules .The internal auditor checks fee receipts and payments with vouchers and necessary supporting documents and ensures that all payments are duly authorized.
- The external audit is carried out by Chartered Accountant Agency “R.B.Pethe & Co.” in accordance with the auditing standards by the institute of Chartered Accountants of India every year. The external auditor conducts statutory audit at the end of financial year.
- The external audit has been completed in March 2018 for the FY 2017-18.Audit reports for the FY 2016-17, 2015-16, 2014-15 and 2013-14 are also prepared by the same agency.
- According to audit report the Balance Sheets, Statements of Income and Expenditure comply with the accounting standards, generally accepted in India. Various accounting policies are followed in finance and accounts including general accounting policies including basic of preparation of financial statements, depreciation accounting policies, revenue recognition, Institutional level

accounting policies including annual budgets, accounting of salaries, advance deduction, accounting of non-salary expenditure, accounting of Capital Expenditure, Tuition Fees, Stock / Assets verification, Quarterly Audits, Annual Accounts.

- Audited Financial Statement of College is uploaded on website as mandatory disclosure.

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

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

Response: 26.32

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

2017-18	2016-17	2015-16	2014-15	2013-14
4.6	16.566	1.99686	1.38	1.7778

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document
Any additional information	View Document
Annual statements of accounts	View Document

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

Response:

The Institutional fund mobilisation strategies are as follows:

- The major part of the funds in the college is obtained from the tuition fees collected from the students.
- The concerned Lab incharge prepares a list of requirements to be purchased and serviced. Indents given by all the departments are evaluated and consolidated by the Management. Quotations are requested from various suppliers.
- Quotations of different suppliers are evaluated, comparative statement is prepared, suppliers are called for personal discussion and after comparing all aspects from various suppliers, orders are

placed by the Principal/Management which ensures right equipment purchase, at most competitive price. Every year the department places the budget to the Principal.

- The Principal presents the budget to management for the approval. For resource mobilization, faculties and students are encouraged to submit research projects for getting the grant and to enhance the research facilities in the labs.
- As a part of Outcome Based Education system, the institution has given utmost importance for the generation and utilization of funds to meet the objectives of the institution.
- The institutional strategy to generate funds is primarily based on Quality enhancement strategy. By providing quality enhancement, a better fee structure can be claimed by the college that can be sanctioned by the government. This also leads to improved funding. Hence, quality enhancement of the institution is nurtured to generate funds from different sources.

Optimal utilization of funds is ensured through the following:

- Adequate funds are allocated for effective teaching-learning practices that include conduct of FDPs, orientation programs, workshops, inter disciplinary activities, training programmes that ensure quality education.
- Adequate remuneration based on the performance-quotient of the teaching professionals is provided.
- Funds are provided to meet day-to day operational and administrative expenses and maintenance of the fixed assets.
- Funds are utilized for purchase of advanced laboratories equipment to encourage research interest of the faculty and students.
- Enhancement of library facilities leads to novel learning practices and accordingly required funds are provided every year.
- Adequate funds are utilized for development and maintenance of every good infrastructure for the institute.

Major activities that exhibit the resource mobilization policy are:

- **National Power Training Institute:** The NPTI initiates contractual tender. Various colleges apply for the tender. Upon selection quotation is issued. In year 2013-14, SVP CET submitted the quotation in line with which various requirements of courses was floated and accordingly faculties were assigned for the required courses. Faculty exchange is initiated from SVP CET to NPTI and vice-versa for both theory and practical courses for which budget and expenditure is processed and total remuneration for conduction, is released in the name of Principal, SVP CET.
- **CRE Simulations:** As per the strategic alliance agreement between CRE simulations, Nagpur and St. Vincent Pallotti College of Engineering & Technology, Nagpur on September 26, 2016, the institute raised invoice project sum on bimonthly basis and payment was made in 3 bi-monthly installments.
- **Online Examinations:** Online Examinations for various Placement activities, Competitive examinations and Government examinations are undertaken every year in the college premises.

File Description	Document
Any additional information	View Document
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:

The Institute has an Internal Quality Assurance Cell (Formerly QAC) constituted and reformed time to time. The sole objective of this committee is to improve the overall quality of academic and administrative functioning and activities of the Institute in accordance with Vision and Mission. This committee periodically reviews the outcome of various academic and administrative activities. This committee has contributed significantly in strategizing, formulating, standardizing and implementing various quality policies, initiatives and processes.

Two practices institutionalized as a result of IQAC initiatives (formerly QAC) are project evaluation Process and student feedback.

1. Project Evaluation Process:

Project activity is carried out to motivate students to analyze, design & implement solutions for real time / social problems with the help of industry experts which results in following outcomes.

Improvement in:

Technical skill, Analytical abilities, Time management, Innovations, Project management, Teamwork, Communication and presentation.

A project coordinator schedules and executes all the activities related to the student project including project evaluation as suggested by IQAC.

Process:

Seventh Semester : Assessment point of view

- 1. Project defining seminar:** Project defining seminar assessment is based on various parameters as contribution to project formulation (10 marks), viva-voce by guides (05 marks), weekly review (05 marks) comprising to total 20 marks.
- 2. Continuous evaluation of project:** Suggestions given by IQAC and PRC are incorporated for continuous evaluation of project which is done by project guides weekly. Project guides assess project diary which has 5 marks allotted for evaluation.
- 3. Periodic evaluation by PRC:** Suggestions given by IQAC is incorporated for continuous periodic evaluation of project by Project Review Committee (PRC) which is executed twice in semester.

Various parameters considered for continuous periodic evaluation of project include contribution to implementation of Hardware/ Simulation (15 marks), Viva (10 marks). These parameters are considered for mapping with the Programme Outcomes.

4. **Evaluation by Mentor and outside experts:** Suggestions given by IQAC is incorporated for evaluation by mentor and outside experts based on various parameters like literature review (05 marks), project definition (10 marks), project planning (10 marks), communication skills (05 marks), total marks comprising to 30 marks.

2. Student Feedback:

IQAC suggested various feedbacks including student feedback on teaching, exit survey etc. for improvement of quality.

Student Feedback is collected using online system at mid and end of semester to understand academic deliverables on various parameters.

Various parameters considered for feedback includes faculty course knowledge, preparation for class, oral communication, showing concern to student learning, interaction in class, pace of teaching, class control & discipline, guidance beyond syllabus, guidance for performing experiments, regular assessment, conceptual & innovative approach.

Head of the Department counsel faculty members based on the collected feedback and also share its analysis with them in line with feedback parameters. Action plan for improvement is finalized in mutual understanding between head and concerned faculty.

At the end of semester end course survey / feedback is collected from the students and actions are taken accordingly.

File Description	Document
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

Response:

IQAC periodically reviews the institute teaching learning process, structures & methodologies by means of faculty academic audits, formal and informal feedbacks. It is responsible for directing, developing, providing, and implementing guidelines to review curricular, instructional, teaching, and learning materials. IQAC suggest modifications/changes and adoptions of latest teaching aids, techniques, activities, assessment tools and methodologies to enhance quality of teaching learning process and to achieve required learning outcomes.

Two review examples:

1. Learning Outcome Attainment: Targets are set for Learning outcomes in the beginning of the academic session. Outcomes are measured semester wise for all students. Individual Student performance in course outcomes per course are measured which supports to measure program outcomes & program specific outcomes. This attainment is used to analyze overall attainments and to plan the activities for bridging the gaps where attainments are not up to the mark.

The course outcomes (CO) for courses are modified as suggested by IQAC (Formerly QAC). Also it was suggested to add COs in sessional question papers to increase awareness regarding COs among the students.

Attainment levels are defined on scale of 1 to 3 and are measured for each course through direct and indirect assessment tools. Direct assessment and indirect assessment contributes 80% and 20% respectively to overall attainment. Course outcome attainment helps to measure Program Outcomes and Program Specific Outcomes.

At the end of every academic year PO & PSO attainment is critically analyzed by comparing it to the set targets. If the attainment is low as compared to the target, action plan is prepared to improve the attainment in next academic year. In case of satisfactory attainments, targets are raised and for maximum attainments levels are redefined to raise the benchmark.

This way IQAC ensures the continuous improvement in PO attainment.

2. Faculty Academic Audit: Faculty Academic Audit is an initiative to validate the academic deliverables of faculty members and to assess preparedness with respect to teaching-learning process, outcomes, and related documents. The regular assessment of academics helps Department/Institute to define new strategies for the improvement of teaching learning process.

Faculty academic audit is carried out at the end of session on various parameters suggested by IQAC (Formerly QAC). The Audit parameters evolved over a period of time.

At present the Faculty Academic Audit is carried out on the following parameters:

Academic engagement plan and execution for theory course, laboratory course and project work, Course File Contents and timely updation, Personal File Contents and timely updation, ICT usage,

Contributions in Publications, STTP / FDP, Department/Institute activities.

On the basis of observations, auditor shares the shortcomings with faculty member and discuss about various corrective measures that can be taken so as to improve the performance in terms of deliverables. Department wise consolidated report is prepared by the team of auditors and submitted to respective HOD through Vice Principal. This report is considered in faculty appraisal with 20%weightage.

File Description	Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year**Response:** 9.6**6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years**

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

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

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

A. Any 4 of the above**B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** A. Any 4 of the above

File Description	Document
e-copies of the accreditations and certifications	View Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document
Annual reports of institution	View Document

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

Response:

IQAC (formerly QAC) sets the benchmark for various activities and processes. It monitors the process and measures the performance against the set benchmark. It proposes corrective actions in case of deviation, prepares the policies, formats and documentations in order to cater the requirements of various certifying/accrediting bodies.

Some of the initiatives of IQAC contributing in incremental improvements are:

- 1. Learning Outcome Attainment:** Course Outcomes are defined for each course and are made available to students. The progress of the students is monitored by course coordinator, IQAC and Head of Department through continuous assessment.
- 2. Faculty Academic Audit:** Faculty academic audit is an initiative to validate the academic deliverables of faculty members and to assess preparedness with respect to teaching-learning process, outcomes, and related documents. The regular assessment of academics helps Department/Institute to define new strategies for the improvement of teaching learning process.
- 3. Stakeholder Feedback:** Student feedback (both direct and indirect feedback) is used to evaluate and improve the teaching effectiveness. Students are required to provide feedback about a teacher/faculty and rate their teaching effectiveness through the use of student rating form.
- 4. Use of ICT Tools for Self & Life-Long learning:** QAC / IQAC suggests /emphasizes use of more ICT tools in academics for promoting self and life-long learning among students. Management instructs HODs to promote ICT tools. Each department shortlists some ICT tools for internal evaluation.
- 5. Be Skilled be Smart and promoting more industry based projects:** Skill Development, chosen as institute thrust area during 2015-16 with a tag line defined as Be Skilled Be Smart (BSBS). Under BSBS various activities are conducted in departments for the students to upgrade their technical and soft skills to improve their placement.
- 6. Mandatory Summer Internship for 6th Semester students:** By doing Summer Internship, students get exposure to the industry working ethics. They learn various technical and managerial aspects and many more by completing it for a span of 15 to 30 days.

7. Promoting more R&D, publication, FDP for up gradation of faculty knowledge: R&D, publication, FDP are needed to keep faculties upgraded with latest trends in all three domains.

8. Allocation of Project Guides for mentoring and Class councilors for counseling: Class counsellors undergo counselling of week students in order to improve their performance. For fourth year students mentoring and counseling is done by project guides as per students allotted to them.

9. Defining Institute level and Department level objectives: Recognizing the thrust areas and setting objectives in lines with them helps strengthen the institute by overcoming the thrusts areas.

10. Tech-Pallottine International Journal: Tech-Pallottine International Journal publishes papers of authors covering varied areas internationally.

File Description	Document
Any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

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

Response: 11

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

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

File Description	Document
Report of the event	View Document
List of gender equity promotion programs organized by the institution	View Document
Any additional information	View Document

7.1.2

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

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

Response:

- **Safety and Security**

Institution provides facilities considering gender sensitivity. The details are as follows:

CCTV Surveillance camera-Surveillance camera on main gate and corridor has been mounted for monitoring and safety of students.

Gate pass scheme and visitors' diary-Gate pass scheme is available for the students to ensure record keeping of students going outside the college campus during college hours. Visitors' diary is maintained at the girl's hostel which is checked monthly by women police for girl student's security. In case of medical / gynecological problems of girl students, they report to senior ladies faculty and gate pass is issued to her and one girl student accompany her to hospital / home immediately. If need arises ladies faculty accompany her to nearest hospital.

Anti ragging cell for boys and girls-Anti-ragging cell have 6 faculty members including 2 lady faculty members to handle girls' complaints.

Boys & Girls Hostel on campus-Our on campus hostels are equipped with all the latest facilities to take care of the needs, safety & security of the outstation students. Nagpur Pallottine Society Fathers' are managing Boy's hostel while St. Francis Girls Hostel is managed by Sisters who take care of all needs of students staying there. Hostels have 24 hours security and Doctor on call facility. In case of medical emergency, students are admitted to SureTech hospital which is at close vicinity to college campus.

Grievance Redressal Mechanism-Grievance Redressal Mechanism exists in the college to settle grievances of students and staff members (Teaching and Non-teaching) up to a satisfaction level so as to ensure effective solution with an impartial and fair approach.

Internal Complaints Committee-Internal Complaints Committee has been constituted in the Institute in accordance to the guidelines issued by Maharashtra State Commission for Women to consider complaints related to any sexual discrimination/harassment of girl students and women in the institute. A Suggestion box / Complaint box are provided at the entrance of Academic Block- A, Academic Block-B, in the canteen & at boys & girls hostel.

- **Counseling**

Counseling room: Counseling room is available in the campus for students counseling (boys and girls).

General Counseling: Class counselor is assigned to every class to counsel students on academics / co & extra-curricular activities/ career guidance/ personal counseling. Record of students counseling/mentoring is maintained. Students report to class counselor for their difficulties.

A full time counselor - A full time lady professional counselor is in the campus for student's counseling. Girl student's special cases are diverted to her. She resolves issue and call family members if need arises.

YEAR	No. of Students availed counseling facility
2017-18	23
2016-17	24
2015-16	19

- **Common Room**

Common rooms are available for relaxation purpose. Three common rooms for girls and one for boys are available in the campus.

Sanitary Napkin Vending Machine & Incinerator Machine is installed in girl's washroom for easy access to sanitary pads in case of emergency. Used sanitary napkins are disposed in incinerator machine installed in girls washroom.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

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

Response: 40

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

Response: 94060

7.1.3.2 Total annual power requirement (in KWH)

Response: 235150

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 16.25

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

Response: 6750

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 41549

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

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

Response:

The institute puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus by managing all types of waste. The institute has waste management system in place.

1. Solid Waste Management :

Solid waste is managed by cleaning staff assigned at different locations in institute. The dustbins are placed at various locations including classrooms and laboratories. The waste generated is segregated at each level and source. The institute has proper system to collect the waste from designated place, segregates, recycles and disposed off..

- Solid waste such as glass, plastic and Iron waste is segregated and sold to vendor.
- Paper & plastic waste is shredded through shredding machine available in institute and given to vendor for further recycling.
- Used sanitary napkins are disposed through incinerator machine
- Concrete waste is used in land filling.
- Bio-degradable garden waste is decomposed in pit and used as manure.

2. Liquid Waste Management (Sewage and Laboratory waste):

Sewage waste from Girls hostel is treated through Sewage Treatment Plant (STP), established in the year 2013-14 with a capacity of 40KLD (kilo liter per day). The treated water is utilized for the gardening purpose.

The Boys Hostel waste water is channeled to a storage tank and is utilized for watering the plants.

Laboratory waste :-

Chemistry Lab: Waste fluid from chemistry lab is diluted acids & alkaline liquids. Quantity of waste water is 50 liters per day and dilute chemical reagents is 5 liters per day. These waste liquids are collected in a tank & percolated in soak pits. There is no harm caused by these liquids to aquatic habitat or trees. However this liquid waste is generated only in 1st Semester (only 3 months). Waste lubricating oils generated in chemistry lab in 2nd semester are used for lubrication of machines in workshop.

Fluid Mechanics Lab: This Lab in Mechanical Department utilizes 3000 liters of water. This water is reused through channels for lab work leading to no water wastage.

3. E-waste Management:

The institute promotes reuse of electronic equipment's to avoid e-waste generation. Old models or projects are reused by the students in the institute for creating projects. Remaining E-waste is systematically discarded. The e-waste generated from hardware which cannot be reused or recycled, is disposed of and UPS batteries are exchanged with the suppliers in buyback scheme.

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

7.1.6 Rain water harvesting structures and utilization in the campus

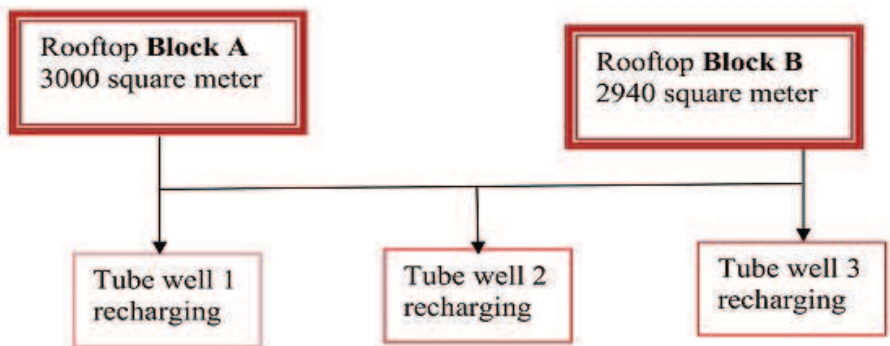
Response:

- Institute has created Rainwater Harvesting facility in the campus by building network of conduits and pipelines spread over the campus with total investment of Rs 17,85,896/-. The wells are charged by water flowing from catchment area and rooftops of the buildings. Benefits derived through this system are, tube well recharging and remarkable rise in water table. Considering average rainfall of 1092 mm in Nagpur region, around 60 lakh liters of water is harvested by the institute. The institute have drip irrigation system spread in @ 2500 running meter area.

NAAC

NVAAC

Rainwater Harvesting at Institute



Rainwater harvesting potential from	Rooftop area
Block A	3000 square meter

Block B	2940 square meter
Total	5940 square meter

Calculation of Rainwater harvesting

- (Roof top area in square meter) X (Total annual rainfall in mm) X (efficiency coefficient/ runoff coefficient)
- 5940 X 1092 X 0.9 = 5837832 liters = Around 60 lakh liters of water is harvested by institute.

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

7.1.7 Green Practices

- Students, staff using
 - a) Bicycles
 - b) Public Transport
 - c) Pedestrian friendly roads
- Plastic-free campus
- Paperless office
- Green landscaping with trees and plants

Response:

The institute has received recognition for clean & green campus by AICTE (Participation certificate for AICTE CLEAN CAMPUS AWARD 2017). The Institute has adopted many green practices since inception, to improve environment quality, decrease wastage of water and conserve natural resources and energy. Various practices and initiatives are

Pedestrian friendly roads :-

- The movement of vehicles is very restricted in the campus hence all the roads in campus are Pedestrian friendly.

Public Transport :

- The institute encourages students to use college bus or public transport.
- The institute encourages staff members to use college bus ,car pool or shared vehicles (bikes) .It not only reduces the consumption of fuel but also leads to reduction of pollution.

Plastic Free Campus:

- Institute prohibits the use of plastic in the campus.
- In various events the guests are welcome by giving plant saplings.
- The plates and cups used in canteen are of non-plastic materials.

Paperless office: To reduce the consumption of paper Use of In-house developed MIS system is encourage for various administrative activities which include library management, store management, leave application, financial transaction, scholarship, Income tax documents (Form 16), students attendance, marks compilation, e- resources & subject notes

Green landscaping with trees and plants: The institute has clean and green campus of 15.97 Acre with around 1030 trees. Various green and environment friendly initiatives are taken by the institute such as:

- Carrying out plantation every year to maintain the greenery
- Sewage treatment plant is functional since 2013-14 in capacity of 40KLD and it is used for watering trees and plants.
- Waste disposal system is in place to ensure proper disposal of solid & liquid waste, plastic and e-waste.
- Solar power plant of 96KW capacity is installed which satisfy 40-50% need of the institute.
- Water wastage is reduced with proper maintenance of plumbing fittings
- Instructions are displayed at various strategic locations to create awareness about conservation of natural resources.
- Environmental awareness among students is created through various activities such as Quiz, poster and oral presentation competitions carried out under the banner of Renewable energy Club.
- The institute is identified and acknowledged as one of the top ten publishing author institute in the field of Green supply chain management GSCM by research paper in Journal of cleaner production (one of the reputed and highest impact factor journal of Elsevier publication. The impact factor of this journal is 5.651 and Five year impact factor is 6.352. The Journal of Cleaner Production is listed as the top publication in Google Scholar's Sustainable Development category)
- Reverse Osmosis System is installed in Campus
- Regular Analysis of drinking water quality by external agency.

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

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 6.77

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

2017-18	2016-17	2015-16	2014-15	2013-14
80.01	13.81	12.61	13.55	13.36

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Any additional information	View Document

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

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

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document
link to photos and videos of facilities for Divyangjan	View Document

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

Response: 31

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

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

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

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

Response: 19

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

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

File Description	Document
Report of the event	View Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	View Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes	
File Description	Document
Any additional information	View Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations	
Response: Yes	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics	
Response: Yes	
File Description	Document
Any additional information	View Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions	
Response: Yes	
File Description	Document
Any additional information	View Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years	
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Response: 72

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

2017-18	2016-17	2015-16	2014-15	2013-14
19	14	13	12	14

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

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

Response:

1. National Youth Day: **January 12**, is celebrated as the National Youth Day in the college campus with all ecstasy. An exhibit commemorating birth anniversary of youth icon Swami Vivekananda is put up by the Holistic Development Cell.

2. Republic Day is celebrated every year on **26th January** with a flag hoisting followed by National Anthem. Students presents patriotic classical dance followed by Republic Day speech by Principal. Every year Insight Prize Distribution is organized on this day. A Flash Mob by students concludes the event.

3. Martyr's Day: On **30th Jan** Martyrs Day chosen as it marks the assassination of Mohandas Karamchand Gandhi in 1948. This day is observed in St. Vincent Pallotti college of Engineering & Technology to pay homage to the victims who fought for the freedom, welfare and progress of the India and sacrificed their lives defending the sovereignty of the nation. Two (02) minutes silence is observed to mark Martyr's Day. All Students and staff Members stand at their respective places to observe silence.

4. Women's Day: Woman's day is celebrated every year under NSS to ackthe importance and responsibility that women carry in a society. In order to recognize it, an event is organized on **8th of March** and various activities like poster competition, message wall, gift distribution to women in the institution, etc. are conducted.

5. International Yoga Day: International Day of Yoga is celebrated in full enthusiasm on **June 21**, every year.

6. Kargil Vijay Diwas: NSS volunteers of St. Vincent Pallotti College of Engineering, organize 'Kargil Vijay Diwas' poster exhibition on **26th July**. The event is conducted in remembrance of the army personnel

who sacrificed their lives during the Kargil war.

7. Independence Day (**15th August**) is celebrated with Colours of Revolution, Flag hoisting and a Chief Guest speech. Students also displays their patriotism through a flash mob, a patriotic act, reciting patriotic songs, etc.

8. Sadbhavana Diwas : The NSS unit of St.Vincent Pallotti College of Engineering and Technology observers Sadbhavana Diwas on 20th August 2015. The Sadbhavana (means having good feelings for others) Diwas or Harmony Day is celebrated on 20th August every year to commemorate the Birth Anniversary of the Late Prime Minister of India Shri Rajiv Gandhi.

9. Teachers Day: Teachers Day is celebrated in remembrance of Dr. Sarvepalli Radhakrishnan on **5th September** every year. Students organize various programs and games for faculty (in respective departments) every year.

10. Engineer's Day: Dr. Mokshgundam Visvesvaraya's birth anniversary, commemorated as Engineers Day, was celebrated on **15th September**. The Chief Guest on this occasion is an eminent personality who has contributed in the field of engineering. Various competitions are held for students to encourage their engineering knowledge.

11. Swachh Bharat Abhiyan is organized in the institute every year on **2nd of October** as per the guidelines of Government of India.

File Description	Document
Any additional information	View Document

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

Response:

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

Financial Transparency-

- As per government regulations, the fee structure is fixed by Fees Regulating Authority of Maharashtra State (Shikshan Shulk Samiti) every year and is available on the website.
- To maintain financial clarity, salary of all the employees is deposited directly in their bank accounts.
- Decisions regarding financial budget is taken in the College Development Committee meeting.
- For non-salary expenses, budgetary provision is made on the basis of requirements raised by the Heads of Department and subsequent discussion is carried out in the executive committee meeting.
- Financial audit is conducted in each financial year.
- Financial features are made available to all the stake holders as and when required.

Academic Transparency-

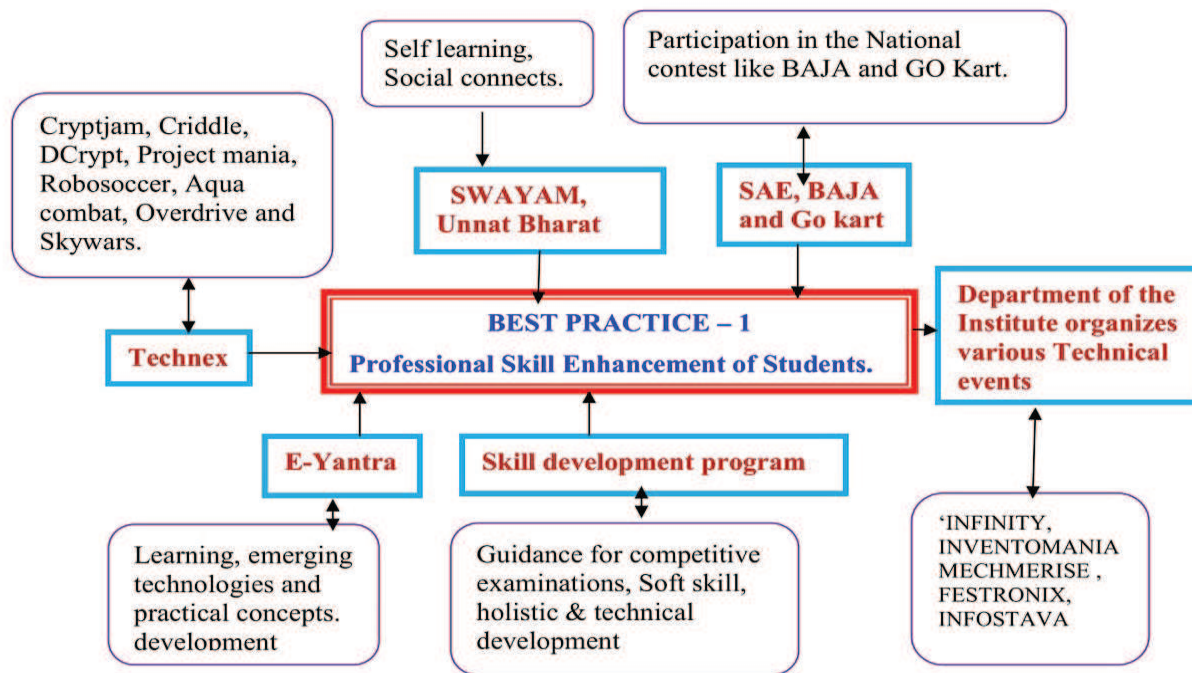
- The institution prepares and shares the Academic Calendar with students and faculty members at the start of the session.
- Teaching plan and assessment schemes are shared with students as soon as the session commences.
- Assessment scheme includes weightage of sessional exam, tutorial/assignments, projects, laboratory work and viva-voce.
- After evaluation, the marks are shared with students, grievances are heard and necessary corrections are made by faculty members.
- Academic audit of every faculty member is conducted on a regular basis ensuring the implementation of defined academic processes.
- Attendance of each student is also made available to them through the intranet portal.
- Student council consisting of CR and SRC members is constituted and their inputs are taken in decisions related to academics at the Department and Institute level, final decisions too are conveyed in areas related to them.
- Calculated internal marks are displayed to students with a provision of rectification as per their appeal

Administrative Transparency-

- The institution has a well-defined organizational structure, available on the college website and in the policy manual.
- Standard operation procedures of various routine works are defined and the same is shared with student and faculty members through the Department Heads.

File Description	Document
Any additional information	View Document

7.2 Best Practices**7.2.1 Describe at least two institutional best practices (as per NAAC Format)****Response:****BEST PRACTICE – 1**



1. Title of the Practice: Professional Skill Enhancements activities for Students.

2. Objectives of the Practice:

- To develop discipline specific/ multi-disciplinary technical skills, and enhance employability.
- To improve Presentation, Communication, Competitive skills.
- To build team work and leadership abilities.
- To provide hands on experience and exposure to various technologies.
- To propose a structured and pragmatic solution to well-defined problems.

3. The Context:

The Institute emphasizes on skill and employability enhancements. These are significant issues emerged out of various surveys of Government/ non-government organizations. This focus of Institute also falls in line with Skill India initiative at National level by Central Government to address the lack of relevant skills among the current and potential workforce of India.

The Institute offers self-learning environment by encouraging students to participate in MOOCs through NPTL (Initiative by IIT Bombay). It encourages students to enroll in SWAYAM, (Study-Webs-of-Active-Learning-for Young-Aspiring-Minds) and participate in Unnat Bharat Abhiyan, which are the Initiatives of MHRD Government of India.

4. The Practice:

Students are encouraged to become members of various clubs operating at departments and institute level.

Office bearers, organizing teams, and teams to participate in competitions are formed based on the interest of students and personal interviews. Student members along with faculty coordinators plan various activities of respective clubs and are responsible for successful conduction of those activities.

Departments at the Institute organize Technical events and workshops for skill enhancements in association with various forums.

Department	Event	Forum
Computer Engineering	Infinity	Computer Society of India (CSI)
Electrical Engineering	Inventomania	Institution of Engineer's (India)
Mechanical Engineering	Mechmerise	Renewable Energy Club
Electronics and Telecommunication Engg.	Festronix	The Institution of Electronics and Telecommunication Engineers (IETE)
Information Technology	Infotsav	Center of excellence in machine intelligence

In addition to this, regular practices at institute are

- Participation in national competitions like SAE, BAJA and Go kart with financial support.
- Activities in Embedded System and Robotics Lab under e-Yantra, an initiative by IIT Bombay to create the next generation of embedded system engineers.
- Conduction of 'Technex', central India's largest national level technical festival with 1500+ participation.
- Participation at IIT Techfest and similar competitions and training programs/ workshops.
- Participation at National Level Paper Presentation & project Competition
- Participation at various regional and national level Robotics and model making competition like LIT Model United Nations, CISCO Security, Robomaker & Blind C, Robo Race Robothon, Robosoccer, Robo_GP
- Participation at various regional and national level technical fest like Compufest, Electrica Smart Grid Apathon", App-a-thon Xplore 9.0 Techsaga, Shikhar, Crank, Mechstroke, Rackathon, Spark
- Participation at Innovative Idea for Start-up conducted by Lemon School of Entrepreneurship

To enhance the skills departments undertake various trainings programs/ workshops with the help of external agencies. Few such programs are listed below.

Name of workshop/ Training program	External Agency
Android development & Angular JS	KloundsAncyber technologies Pvt.Ltd. Pune
Game Programming with augmented Reality & Virtual Reality	Summit Games Entertainment Ltd.
Oracle SQL /PL-SQL with Big Data	e-Trix Data Solutions,Nagpur
Internet of Things	ExpertHub,Chennai
Industrial Automation with Hands on PLC & SCADA	ProlifficSyatem& Technologies Pvt.Ltd.Nagpur
Computer Aided Design (CAD)	Inhouse Faculty
Guidance for competitive examinations (Aptitude, Group Discussion, Personal Interview Training) for Final Year and Third Year Students	Smart Skill Tech Pvt Ltd, FACE Cocubes On-line Test ,Abridge Edu Corp
Coaching for GATE	GATEXPERT EDUCATIONAL SERVICES PVT. LTD.
Soft(Communication)skill development	in house expert ,Global Talent Track GTT with Barelays

5. Evidence of Success:

Technex:- Participation & Accolades

Sr.	Technex'-National level Annual Technical Competition	
1	Participation	1500 students/year from over all India
2	Academic Year	2008-09 to 2018-19
3	Ranking	Technex 2016 Ranked 9 th position among all technical e vents across India.

SAE, BAJA, Go-Kart, E-Yantra :- Participation & Accolades

Academic Year	Name of the Competition/events	Remark
2013-14	Delta Shoot Out	1st Maneuverability
2014-15	BAJA STUDENTS INDIA 2015	1st -"Cost Event"
2015-16	BAJA STUDENTS INDIA 2016	1st -Sales
2016-17	AUTO INDIA RACING CHAMPIONSHIP	10th
2017-18	INDIAN KART RACING CHAMPIONSHIP	OVER ALL : 1st
2015-16	eYrc Competition	Received Robot
2016 -17	eYrc Competition	selected
2017-18	workshop and STP on Embedded system &	Conducted
2018-19	workshop on IOT	Conducted
2018-19	INDNXT.0 organized by CII	Participated

Departmental Technical Events

Sr.	Event /Department	Year	No of participants	Activities
1	Infinity- C.E	2016-17	536	Cracken,-Ceasar'sPalace,-
		2017-18	823	Talk@Pallotti,-,Pixar.-Webster-
		2018-19	464	,-intelligence,Cyber Surge, - Speakathon
2	Inventomania- EE	2014-15	178	Technohunt , Nirmaan,
		2015-16	276	Rocketter, Jugaadu,
		2016-17	550	Mindstorm,Best out of waste,
		2017-18	729	Contraption
		2018-19	239	
4	Festronix- ETC	2017-18	445	B-cube, Project-o-Era, Poster-
		2016-17	380	Xpresso, Circuit Saga,
		2015-16	320	Electrorythm
		2014-15	390	
		2013-14	117	
3	Mechmerise- M.E	2017-18	369	Enenium,Cryogen.Catastrike,g
		2018-19	284	izmo,Ideaxa,Konzept
5	Infotsav- IT	2017-18	800	Iconect, Apathon workshop-
		2018-19	1208	

6 Problems Encountered and Resources required

- Less Participation in some case due to Academic/ Examination schedule overlap with event dates
- Availability of skill specific expert/s due to less number of industries nearby.
- Constraints for organizing events and training programs during regular academic due to semester patterns.

7. Notes

The institute also supports students by organizing various workshops and training programs. The details are as follows

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled
Guidance for competitive examinations	2017-18	703
Soft skill development		783
Computer Aided Design		20
IOT		84
PLC, SCADA		31
Oracle Workshop		30
Android Development		23
Game Programming		75
Workshop along with Internship for Data Science		45
Ethical Hacking		48
Guidance for competitive examinations		2016-17
Soft skill development	671	
Product Development	30	
CNC Machine Training	22	
Guidance for competitive examinations	2015-16	312
Computer Aided Design		7
CNC Machine Training		30
Android Application Development		46
Oracle Workshop		30
Computer System & Security		44
Communication skill development)		434
Guidance for competitive examinations	2014-15	358
Computer Aided Design		45
Communication skill development		421
Guidance for competitive examinations	2013-14	350
Linux Worskshop		30
Communication skill development		442

BEST PRACTICE 2

Title:-Industry Connect



1 Title of the Practice: INDUSTRY CONNECT

2 Objectives of the Practice:

- To identify Industry requirements.
- To provide Industry exposure.
- To develop competency required for Industry.
- To bridge the gap between Industry and Academia
- To Enhance employability

3 The Context:

Institute is aware of increasing industry demand and need of global competence. Institute is proactive in providing necessary industry exposure to students. An engineering student must know industry problems and propose solution to it hence institute promotes and encourages industry based projects. To gain insight regarding internal working of companies and give exposure to current work practices, industrial visits are organized by all the departments.

As against the theoretical understanding, gaining knowledge through hands on practice and job execution is essential for an engineering student, the institute encourages Industry Internships. From the industrial training, the students develop skills in work ethics, communication and management. This practical training program allows students to relate theoretical knowledge with its application.

For awareness among students and faculty about the recent trends in industry the Institute organizes interaction programs with industry experts. It provides platform to interact with industries and to get exposure of industry environment.

4 The Practice:

Institute made following platforms available for students for industry connect-

- **Institute Industry Interaction (III) Cell** is in place (<http://www.stvincentngp.edu.in/iii-cell/>). It

conducts and coordinates various activities that help to reduce the gap between industry expectations (practical) and academic deliverables (theory). The cell consists of faculty representative from each department. The faculty members along with student team conduct and organize various activities/events/visits in respective departments to build the industry association.

- **Industry Internship** is promoted right from 2nd year of degree course. Students undergo summer training in department specific prominent industry in 2nd, 3rd and 4th year.
- **Industrial tour/visits** for each semester, one industrial visit is carried out in discipline specific industry. For 4th and 3rd Year students industry visits/ visits to technical exhibitions of 3 to 5 days are arranged.
- **Industry based projects**- students undertake industry based projects. The project is monitored by industry mentor and institute guide.
- **Project Evaluation**-In order to ensure the quality of projects, the evaluation is done through industry experts.
- **Industry expert interaction session** – various activities are conducted to involve industry experts which includes seminar, interaction session and industry-institute meets. These are organized in view to gain awareness about the latest happenings in the industry, current industry trends and expectations of industry from a fresh graduate.
- Faculty Industry Exposure: faculty industry training,
- Involvement of Industry Experts in decision making process-Advisory Board
- Visiting faculty from Industry
- Participation in AICTE CII survey

5 Evidence of Success

- Internship opportunity for students at various industries-

Department	Industries
IT	ISRO, IIIT Hyderabad, Persistent Systems Ltd., HetaDatain, gRapha
EE	Morarji Industries, JSW Industries, UltraTech, Winwind
ME	PIX Transmissions Limited, Morarjee Textile Limited, JSW Steel Coated Products Ltd, Vidarbha Industries Power Limited,
CE	Persistent System Pvt. Ltd, G.R. Solutions, NMC, RMC, NEERI, Gruha App, Nagpur Industries, FIT, V.N. Technosoft, Royal Web , Harrier Solutions, Regional Remote Sensing Centre, Drron Chemical Industries Pvt. Ltd.
ETC	DRDO-Hydrabad, ISRO-Nagpur, BOSH-Banglore, BARC-Mumbai, BHEL-Bhopal, BHEL-Hydrabad, Mahindra & Mahindra

- Memorandum of Understanding (MOU) –

Year	2017-18	2016-17	2015-16	2014-15	2013-14
Number	25	11	8	4	2

- Memberships at Industry Association – Confederation of Indian Industry (CII)
- Students getting placement opportunity through internship/industry based projects in company like Persistent Pvt. Ltd. Nagpur, HetaDatain, Infocepts, etc.
- Students are recognized for their outstanding performance in internship and live projects.
- No of industry visits

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Year	2017-18	2016-17	2015-16	2014-15	2013-14
Number	32	26	22	18	12

- 100% student internship for 3rd year students across all departments.
- No. of students involved in field projects for the academic year 2017-18

CE	EE	ETC	IT	ME
51	17	76	33	37

- Industry representatives in curriculum and administrative bodies.

6 Problems Encountered and Resources Required

- Limited number of professionally managed industries in and around the region.
- Less credits for activities related to Industry in curriculum of affiliated University.
- Industry expects students to undergo internship for extended period however because of university curriculum the extension in the duration cannot be given. Students undergo training in their vacation slot.
- Duration of industrial visit need to be planned considering the availability of the resource person and academic calendar so that academics of the students are not hampered.

7. Notes



As the institute is located near to industrial area like Butibori MIDC ,Hingna MIDC and Special Economic Zone (SEZ-MIHAN), it has potential to collaborate and connect to the industries.

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

7.3 Institutional Distinctiveness

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

Response:

Response: **ACADEMIC EXCELLENCE-DISCIPLINE-CLEANLINESS**

The distinctiveness of St. Vincent Pallotti College of Engineering and Technology is in its consistent academic excellence attainment, discipline culture, and cleanliness. The Institute takes lots of efforts in the direction of achieving this.

The institute has social recognition for its academic excellence and imparting discipline in terms of punctuality, uniformity, and professional code of behavior. In line to Institute vision **“To develop a knowledge based society with clarity of thoughts and charity at hearts to serve humanity with integrity.”**

The Institute's recognition is the natural result of the following strengths:

Academic Excellence

Emphasis on high quality academic excellence through dedicated teaching-learning process that can provide value-added experience for the students. The institute has a legacy of producing university toppers in every semester and in every program. Best Student awards and medals for exceptional performance in the University Examinations are regular practices by students. The institute has a practice of promoting excellence in academics by rewarding the achievers with a cash prize. The institute specifically rewarded the toppers of consecutive semesters (First Year) with a scholarship worth the complete tuition fees under Chairman's award. Technically sound students have brought laurels to the institute by winning Best Paper and Best Project awards. The innovative aspect of students is projected through their patents which they have to their credit. Premier organizations and industry has also recognized the potential of the institute by permitting students for internship. As an outcome of academic excellence, students got absorbed in various renowned industries through campus placement and higher studies. Positive outcome of excellence in academics have been achieved to meet the global requirements.

Discipline Standards

Since its inception, the institute has emphasized on punctuality in terms of reporting on-time for staff and students. The four years of disciplined environment has inculcated in students the qualities of being punctual, responsible, reliable, self-disciplined, time conscious and elegance. Alumni have acknowledged that they have been valued at their work place because of personality traits gained in a disciplined environment of Institute during their four years of graduation.

Cleanliness in the Institute

The institute is known for its cleanliness in the region. The institute has received recognition for having a clean campus by AICTE (Participation certificate for AICTE CLEAN CAMPUS AWARD 2017). The institute puts in conscious efforts to enhance the cleanliness and beauty of campus through various initiatives such as-

- Being particular about an absolute clean surrounding and indulge in upholding it.
- Waste/litter generated in the institute is managed by the Cleanliness Staff assigned at different location for cleaning activity.
- Mopping of all floors twice in a day.
- The dustbins, at all places including classroom and laboratories.
- Segregation of generated waste at each level and dispose off.
- Prohibition of plastic use in the campus.
- The college administration encourages “less paper” policy.
- Paper & plastic shredding machine is operational.
- Disposition of used sanitary napkins in the incinerator machine in girl’s washroom.
- Use of Bio-degradable garden waste (decomposed in a dedicated pit) as manure.
- Use of the lawn grass (cut for its maintenance) to produce compost.
- Two Fixed Dome type Kitchen waste based Bio gas plant for methane generation is installed at the girls’ hostel.
- Liquid waste generated by the institute is treated through Sewage Treatment Plants (STP) and the water is used for horticulture and flushing in toilets.
- Waste fluid from labs are collected in a tank & percolated in soak pits.
- Institute ensures optimum utilization of electronic equipment and devices.
- Most of the E-waste in the form of old models or projects are reused in the institute itself for making new projects by the students.
- The e-waste generated from hardware which cannot be reused or recycled is being disposed centrally through authorized vendors.
- UPS batteries are exchanged with suppliers in a buyback scheme.
- Green Audit is conducted in the institute.
- Various Cleanliness Initiatives organized by NSS Unit of the institute are
- Cleanliness Drive (<http://www.stvincentngp.edu.in/tree-plantation-under-vrikshayukta-shivir-a-2-crore-tree-plantation-mission-by-government-of-maharashtra-under-nss/>)
- SwachchhataAbhiyan(<http://www.stvincentngp.edu.in/the-creation-of-a-thousand-forests-is-in-one-acorn/>)
- Swachchh Bharat Abhiyan organized in the Rui Village, Jamtha (<http://www.stvincentngp.edu.in/%C2%A8swachata-abhiyan-ek-kadam-swachata-ki-aor%C2%A8/>)
- Seminar on Swachchh Bharat mission (<http://www.stvincentngp.edu.in/breathe-easy-lets-plant-some-trees/>)

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

5. CONCLUSION

Additional Information :

SVPCET is steadily progressing as a premier engineering institution in central India. With all the departments fully functional, innovative initiatives are introduced to impart industry friendly knowledge through learning processes that are specific and time bound. The classroom teaching is complemented with a range of co-curricular activities, through various active technical clubs and societies where students work under the supervision of teachers, with considerable freedom and initiative. The balance between freedom and responsibility is maintained. Most of our faculties have undergone FDP program 101X and 201X by IIT Bombay.

Our victory of SAE Collegiate club in National Level BAJA ATV Competition in 2013 proves the capability of our students. “Team Ashwa Riders – Go Karting” with their vehicle Mirage 2.0 participated in INDIAN KART RACING (IKR) CHAMPIONSHIP 2018 organized by ISIE INDIA held at Buddh International Circuit, Noida and bagged “The Champions Trophy”. Pallotti College produces a number of university toppers every year. Thus both in Academics and co-curricular activities our students excel. A good number of students opt to pursue Post-Graduation/PhD from foreign universities in USA, Germany, Canada, Australia etc.

One of our Students Ms. Manasi Moghe won the Miss Diva India award in 2013. Eldho Abraham, another former student developed an algorithm and has an important patent to his credit. So too, Nirul Masurkar, another alumnus of ours, together with his team won first prize at the global competitions for their project “Smart Buoy” which helps in real time detection of water contaminants.

The Institute has developed E-Yantra lab in collaboration with IIT Bombay to encourage the students in Robotic upfront. It has also an IIT Remote Centre to facilitate various online courses for students as well as teachers across the region. These facilities are used to promote academic excellence for the students and also for the faculties. Various departments/cells organize training programs on latest tools and technologies which among others include CAD, Oracle, Python, Ethical Hacking, Android, Linux, Raspberry Pi which help the students to be industry fit. Plans are on the anvil to introduce German language.

Concluding Remarks :

The Institute has made steady progress since its inception and has emerged as one of the most sought after institutes in central India. SVPCET is a vibrant institution that promotes learning through regular interaction between students, faculties and parents. The primary focus of the institute is academic excellence and the inculcation of Tech Pallottine values such as human dignity, professional leadership and social responsibility. State of the art infrastructure, well-equipped laboratories, Industry interaction, Co-curricular and extra-curricular activities are some of the salient features of the Institute. It also promotes Outcome Based Education (OBE) through better teaching-learning methods.

The governance of the Institute is carried out through the various administrative structures comprising of Governing body, College Development Committee (formerly known as Local Management Committee -LMC), Core Committee, Internal Quality Assurance Cell, Departmental Advisory Boards and other Institute level portfolios. All these contribute to the smooth functioning of the Institute.

The Institute rigorously promotes training of faculties and students for effective implementation of initiatives. Periodic review of institutional procedures in keeping with the DTE, AICTE norms and necessary changes, if required, are introduced. Similarly internal audit is also done on a regular basis.

The institute is taking steps to sign MOU's with leading Foreign and National Universities and Industries of repute. Plans are afoot to establish a Center of Excellence in the Emerging Fields of Engineering and Technology and an Incubation Centre. We are also planning to conduct certificate and skill development courses for the benefit of the people around. Efforts are underway to get sponsored/consultancy projects from various Government, R & D agencies and private organizations.

Students are continuously exposed to the outside world by participation / organization of various professional activities under the aegis of IE(I), CSI, IETE, ISTE, SAE, ISHARE and various in house Student clubs. The institute is making maximum use of Renewable Energy technologies and is working for implementation of Unnat Bharat & Swachhha Bharat Abhiyan.

In short, the institute is on the path to excellence and is committed to produce technocrats with sound knowledge and professionalism aimed at building a better nation.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>19</td> <td>12</td> <td>21</td> <td>24</td> <td>20</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>6</td> <td>14</td> <td>16</td> <td>13</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	19	12	21	24	20	2017-18	2016-17	2015-16	2014-15	2013-14	10	6	14	16	13
2017-18	2016-17	2015-16	2014-15	2013-14																	
19	12	21	24	20																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
10	6	14	16	13																	
2.4.4	<p>Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years</p> <p>2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>44</td> <td>34</td> <td>20</td> <td>13</td> <td>31</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4</td> <td>1</td> <td>0</td> <td>2</td> </tr> </tbody> </table> <p>Remark : Revised based on the certificates provided and considered on AWARDED certificates and not invitations, meeting information, nominations, thank you letters, request as reviewers etc.</p>	2017-18	2016-17	2015-16	2014-15	2013-14	44	34	20	13	31	2017-18	2016-17	2015-16	2014-15	2013-14	4	4	1	0	2
2017-18	2016-17	2015-16	2014-15	2013-14																	
44	34	20	13	31																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
4	4	1	0	2																	
3.3.5	<p>Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years</p> <p>3.3.5.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>41</td> <td>19</td> <td>37</td> <td>21</td> <td>39</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	41	19	37	21	39										
2017-18	2016-17	2015-16	2014-15	2013-14																	
41	19	37	21	39																	

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
41	19	37	21	39

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

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : Appreciations and participation not considered as award. Revised based on the attached supporting document

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
25	11	8	4	2

Answer After DVV Verification :

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

Remark : Revised as per supporting links of MoUs, excluding repeated MoUs

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

	<p>4.1.3.1. Number of classrooms and seminar halls with ICT facilities Answer before DVV Verification : 44 Answer after DVV Verification: 44</p>										
<p>4.2.3</p>	<p>Does the institution have the following:</p> <ol style="list-style-type: none"> 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases <p>Answer before DVV Verification : A. Any 4 of the above Answer After DVV Verification: A. Any 4 of the above</p>										
<p>5.1.3</p>	<p>Number of capability enhancement and development schemes –</p> <ol style="list-style-type: none"> 1. For competitive examinations 2. Career counselling 3. Soft skill development 4. Remedial coaching 5. Language lab 6. Bridge courses 7. Yoga and meditation 8. Personal Counselling <p>Answer before DVV Verification : A. 7 or more of the above Answer After DVV Verification: A. 7 or more of the above</p>										
<p>7.1.1</p>	<p>Number of gender equity promotion programs organized by the institution during the last five years</p> <p>7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years Answer before DVV Verification:</p> <table border="1" data-bbox="304 1982 1046 2085"> <tr> <td>2017-18</td> <td>2016-17</td> <td>2015-16</td> <td>2014-15</td> <td>2013-14</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	2017-18	2016-17	2015-16	2014-15	2013-14					
2017-18	2016-17	2015-16	2014-15	2013-14							

5	5	5	4	1
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Answer After DVV Verification :

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

7.1.9

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

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

Answer before DVV Verification : A. 7 and more of the above

Answer After DVV Verification: B. At least 6 of the above

7.1.13

Display of core values in the institution and on its website

Answer before DVV Verification : Yes

Answer After DVV Verification: Yes

2.Extended Profile Deviations

ID	Extended Questions																				
1.2	<p>Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>362</td> <td>410</td> <td>383</td> <td>410</td> <td>485</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>374</td> <td>410</td> <td>414</td> <td>410</td> <td>485</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	362	410	383	410	485	2017-18	2016-17	2015-16	2014-15	2013-14	374	410	414	410	485
2017-18	2016-17	2015-16	2014-15	2013-14																	
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