

FOR

2nd CYCLE OF ACCREDITATION

DR. N. G. P. INSTITUTE OF TECHNOLOGY

DR. N.G.P. INSTITUTE OF TECHNOLOGY, DR. N.G.P. NAGAR, KALAPATTI ROAD 641048 www.drngpit.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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<u>1. EXECUTIVE SUMMARY</u>

1.1 INTRODUCTION

Dr. NGP Institute of Technology established in the year 2007 is located at Kalapatti in the vicinity of Coimbatore Airport, by Kovai Medical Center Research and Educational Trust, Coimbatore. Our Chairman Dr.Nalla G. Palaniswamy and Secretary Dr.Thavamani D. Palaniswamy are basically medical practitioners by profession, started this institution with the vision of imparting quality technical education. The Institute is approved by All India Council for Technical Education (AICTE) and affiliated to Anna University, Chennai, recognized by UGC under section 2 (f) and 12(b), accredited by NAAC and NBA (BME, CSE, ECE, EEE and Mechanical). The Institute received research center recognition from Anna University for the departments of CSE, ECE, EEE and Mechanical Engineering.

The institution is well equipped with infrastructural facilities, state of art labs, centers of excellence, Center for Teaching and Learning (TLC) and Center for E-Learning for education excellence.Various international Professional Societies and Chapters such as IEEE, IETE, SAE, CSI, BMESI, etc., are established and has collaborated with foreign universities like Universiti Teknologi PETRONAS, Malaysia, Florida Atlantic University and Wayne state University, USA to develop professional growth and international connectivity among the students and faculty members.

The Institute strives towards making students employable with industrial exposure, multi-faceted skills through value added Industry oriented training programs.

In order to develop Industry and Corporate Relationship, MoUs have been signed with SIEMENS Ltd, Oracle Corporation, CISCO Systems Inc, Texas Instruments, IBM India Pvt. Ltd., National Instruments, COINDIA, CODISSIA, Siemens Healthcare Pvt. Ltd., KEF Infrastructure India Pvt. Ltd. etc. with a view of providing high quality remote laboratory access, a Nodal Centre for VALUE Virtual Lab has been set up in the institution. It provides access to a wide range of learning resource to create students as brand ambassadors of change in a changing global scenario. The Institute has well defined green practices that includes green campus, alternate and renewable energy sources like Solar electricity, usage of LED light sources and these measures are audited by TUV India Pvt. Ltd. As an outcome of these initiatives the Institute is recognized and selected for MHRD Swachhta Ranking award 2019.

Vision

To empower the students to succeed in a changing world to become productive engineers and responsible citizens.

Mission

The stated vision of the Institution will be achieved by:

MI1: Producing graduates with sound technical knowledge and skills in diverse Engineering disciplines

MI 2: Adopting innovative teaching and experiential learning practices by competent faculty

MI 3: Enhancing knowledge and skills in cutting edge technologies through alliances with industry and research organizations

MI 4: Creating conducive learning environment with state-of-the-art infrastructure and laboratories

MI 5: Inculcating ethical standards among students, both societal and personal through outreach programs.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Brand strength of the promoters – Kovai Medical Center and Hospital

• Institution is accredited with NAAC and NBA for 5 programme and certified with 2(f) and 12(B) status by UGC

- Our College works with an eminent intellectual workforce of 48 Doctorates, 18 M.Phils with numbers steadily increasing
- Good number of university ranks

• Meritorious and economically weak students benefit from scholarships and provision is offered for payment of fees in installments.

- Close mentoring and monitoring of students is done and a healthy faculty-student relationship is maintained.
- Bridge courses and remedial teaching sessions are conducted for the students who require assistance to improve their academicperformance.

• Value added courses are conducted in collaboration with industries to integrate knowledge with skill which in turn will enhance learning and creativity.

Centre of Excellence have been established to make the students industry ready

- Orientation programmes at the institution and department level forboth new and existing faculty about the vision, mission and campusculture are imparted.
- Under the existing global conditions with regard to jobs, extrememeasures are being taken to find suitable placements for students.
- The college encourages faculty participation in seminars, workshops, conferences and faculty development programmes.
- The college conducts seminars, workshops, conferences and facultydevelopment programmes at the department and college level tostrengthen existing knowledge base.
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- Efficient use of Management Information System enables the day-todayfunctioning of the college and the administrative system.
- Performance feedback is collected from all stakeholders to initiatechanges.
- E-Learning Resources made more easily accessible.
- Professional Societies and chapters established with student and faculty membership and active participation.
- Life Skills and Professional Skill training is provided through wellplannedprogrammes.
- Sports, literary, cultural and other extracurricular activities are promoted and incorporated into the educational system.
- Social awareness and social responsibility are instilled in the studentsthrough a number of extension activities.
- Travel grants offered to students and staff pursuing research and forthose who are selected for national and international presentations.
- Staff Welfare schemes that are beneficial in maintaining strong bondsbetween the institution and the faculty.

Institutional Weakness

- Challenges in securing funded projects
- Few senior professors are part of Board of Studies members and contributes to the design of curriculum.
- Adequate consultancy output to be improved.
- Funding from external funding agencies is inadequate.
- Pass percentage of students to be improved.
- Number of GATE qualified and placed students in public sectors and government research organization are minimal.
- To provide more campus placements with higher salary packages.

Institutional Opportunity

- To become autonomous
- Potential contribution to economic development of the region.
- More innovative and collaborative research programs.
- Resource generation through the consultancy
- To establish more incubation center for entrepreneurship development and start-up culture.
- More number of social relevant project to be improved.

Institutional Challenge

- Too many engineering colleges in Coimbatore region to attract quality students.
- Inculcate research cultures.
- Less students opted for higher studies
- Motivate/Encourage faculty to undertake applied research

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute follows curriculum and syllabi framed by Anna University, Chennai. Various academic and extracurricular activities are executed as per institutional academic calendar. Teaching plan is prepared and delivered using modern pedagogical tools to cater the needs of the student community. Assessment and evaluation of an individual student is carried out through Academic Development Cell. Tutor ward meetings, class committee meetings and academic audits are conducted periodically to monitor and improve the process of teaching and learning. The curricular gaps are identified through Program assessment committee and Department advisory board and upon its recommendations several certificate and value added courses are conducted. 433 number of certificate courses, 188 number of life skill and value added courses are conducted in the assessment period. The average number of students enrolled in the certificate courses and value added courses and value added courses for the past five years is on an average of 83%.

The institute follows CBCS as insisted by Anna University, Chennai for the regulation 2017 and followed elective course system for the regulations 2013 and 2008. The institute incorporates courses such as Environmental Science and Engineering, Professional Ethics and Human Values, Principles of Management, Total Quality Management etc., in the curriculum to address the issues relevant to Gender, Environment and sustainability, Human values and Professional Ethics. Also, to educate the importance of gender equity and ethics in engineering, the Institute conducts events through Gender Equity cell, Environment awareness clubs etc. The institute conducts several value added courses such as Yoga, Energy auditing, Share trading, etc., that imparts transferable and life skills to the student community. The students are highly motivated to undergo internship training, In-plant training and industrial visits, which enhances the practical knowledge in their field of study. 55% of students have undergone internship/industrial projects in reputed organization like ISRO, DRDO, BHEL, Siemens, L&T Infra etc. The institute follows a well-structured feedback mechanism for continuous improvement. The feedbacks obtained from students, teachers, employers, parents and alumni are analyzed and appropriate remedial measures are carried out. Thus the institute ensures the effective implementation of curricular aspects.

Teaching-learning and Evaluation

The Institute follows the guidelines of state government and affiliating University for admissions in UG and PG programmes. The Institute admitted, quality students from diversified domicile and an average of 80% students admitted from reserved category during the last five years following the reservation guidelines of state government.

The innovative teaching-learning process is effectively implemented with modern pedagogy methodologies by a team of 163 fulltime faculty members which comprises of 48 doctorates, 32 pursuing Ph.D with the student faculty ratio of 12:1. The faculty members are allocated as mentors with a mentor ratio of 1:14 to resolve the academic and personal issues of the students.

To ensure the quality of teaching-learning, the institute practices OBE. The Institute encourages faculty members to attend faculty empowerment programmes for the effective implementation of OBE with usage of ICT tools such as e-learning resources, digital library etc. Further to enhance the OBE implementation, the teachers have also developed e-contents through TLC.

Quantifiable COs are framed for all courses in the curriculum and disseminated to all stakeholders through website, prominent locations, and curricular books. CO attainment is measured by 80% of direct assessment such as formative and summative assessments and 20% of indirect assessment such as course end survey collected from the students. The PO/PSO attainmentis measured by 80% of CO attainment and 20% of graduate exit survey.

The Institute follows a strong evaluation process through ADC that ensures transparency and robustness. The ADC conducts CIE periodically in line with the academic calendar of Anna University and the Institution, ensuringtransparency in the process of scheduling, conducting and post CIE. Grievances during the CIE process are resolved in time-bound manner. Based on the performance, the students are categorized into advanced learners and slow learners. The advanced learners are continuously motivated to participate in various competitions, certification courses, student exchange programs and personality development programs for succeeding in the competitive world. Special/Coaching classes are conducted for slow learners to improve their learning ability.Hence through these academic processesgradually increase in success rate is achieved.

Research, Innovations and Extension

The Institute motivates and encourages the faculty and students to submit project proposals and publish research articles in journals and conferences of high repute. In addition with that the Institute also support to carry out consultancy projects, collaborative, inter disciplinary and inter departmental research activities. Various centers such as center for research, IPR Cell, MHRD-IIC and Idea Club have been established to inculcate research practices among the students and faculty which is evident from establishment of innovative eco system.

The Institute has well defined guidelines towards doctoral degree program, project proposal submission, intellectual property rights, consultancy works etc.

All the research documents are checked for plagiarism through Urkund, IEEE cross check etc. The outcome of this process is evident from 592 number of publications in various reputed journals, conferences, books/book chapters and 17 number of patents are filed.

The extension activities are conducted through various clubs and NSS to emphasis and sensitize the students to the social issues and community services. 344 number of extension activities are carried out for that the Institution is recognized with 92 number of awards from reputed government and non-government organization.

The Institute has signed 27 number of functional MoUs with industries, research organizations and foreign Universities like Siemens, National Instruments, Texas Instruments, CICSO, Siemens Health Care Ltd, Florida Atlantic University, USA, Universiti Technologi PETRONAS, Malaysia, Wayne State University, USA etc. Through these MoUs the Institute conducts many collaborative programs such as Industrial Training, Internship, Research activities, summer/winter research programs, FDPs, research and resource sharing.

Infrastructure and Learning Resources

The institute is located within a serene green campus spanning out an area of 18.93 acres. The campus has well planned infrastructure comprising of 48 ICT enabled class rooms, 2 drawing halls, 11 tutorial and elective halls,

45 laboratories, 10 industry powered centers, 9 seminar halls, 9 board room. The institute also established center for e-learning, TLC and digital library to enrich teaching-learning process. Through AICTE funded IIPC, the Institute established industry powered centers like Center for Robotics e-Yantra, Texas Instruments Center, NI LabVIEW Academy, etc., to train the students on emerging technologies.

The spacious library houses a diverse collection of 4164 volumes apart from subscription to leading national and international periodicals and journals. Library is automated using OPAC (Online Public Access Catalogue) facility through CAMPESiLIB Library Management Software to search the bibliographical details. The institute has established IP enabled library having access to e-books, e-journals, e-ShodhSindhu and research articles from IEEE, ASME, ASTM, Science Direct, EBSCO, Elsevier and Springer. On an average 111.38 Lakhs was incurred towards expenditure for purchase of books and journals during the last five years. The average percentage of teachers and students used the library resources per day in the academic year 2018-19 was 37.48%.

Sports facilities have been established for various indoor and outdoor games for providing extra-curricular activities. The average percentage of budget allocations was **19.32% for infrastructure augmentation** during last five years.

The college has adequate computing facilities with **1092 terminals**, **93 projectors and 13 Wi-Fi hotspots** at prominent locations. The networked systems are configured to allow individual internet access from all the computers with internet connectivity of 88 Mbps leased lines with the **student computer ratio of 2:1**. *The institution has e-content development facilities like Media Centre, Recording facility, Lecture Capturing System (LCS) worth of Rs.13 lakhs.* The annual expenditure of an average **18.04%** (excluding salary) has been incurred towards the maintenance and up keeping of academic and physical support facilities. Hence good infrastructure facilities inside the college has been optimally utilized for better academic development.

Student Support and Progression

The Institute provides necessary support to the students for their holistic development and progression in the changing world. In addition the Institute provides financial assistance for the meritorious and economically weaker students. On an average **57.83%** of students and **45.8%** of students are benefited by scholarships and freeships provided by the Government and the Institution respectively.

The institute organizes various student capability enhancement and development programs that includes guidance for competitive examinations, Career counseling, soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga/meditation and Personal Counseling. In addition to that Vocational Education and training (VET) are conducted to enrich the skill set of the student.

The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases. The outcome of capability enhancement and development schemes are witnessed from the increase of student placements, enhanced student progression to higher education and more students qualifying in state/national/ international level examinations. Further the students also receive awards/medals for their outstanding performance in sports/cultural activities at national / international level competitions.

The institution promotes inclusive practices for social justice and better stakeholder relationships through an active Student council & encourages, the representation of students on academic & administrative bodies/ committees of the Institution. The Institute has an active Alumni Association which contributes to academic

activities, student support as well as financial and non-financial aspects.

Governance, Leadership and Management

The Institute has competent academicians and administrators, well defined organizational hierarchy with participative management to provide effective governance and leadership at all levels. The Institute has well documented strategic plan aligned with Institute's Vision, Mission is in place and is disseminated at prominent locations of the Institute.

The Institute disperses responsibilities from top down by decentralizing duties and responsibilities for quick decision making to effectively achieve the vision. Further the Institute provide operation autonomy to the department in academic pursuit and decision making to effectively achieve the mission. The object of participative management and decentralization is evident from various events organized by the Institute.

The Institute ensures the professional development among the faculty and non-teaching staff by conducting professional development programmes and provides financial support for attending such programmes. The Institution has a well-structured Performance Appraisal System for teaching and non-teaching staff. The Institute has efficient financial management system through which internal and external audits. The resources of the Institution is mobilized from fee deposits, government/non-government bodies, philanthropers and it is being audited by an effective financial management system to ensure the optimum utilization of financial resources.

The institute has well-structured IQAC which adopts participatory approaches for managing academic and administrative process and practices. The compliance of academic and administrative procedures and their continual improvement is ensured through systematic audit by IQAC. IQAC has both internal and external members to review the academic and support systems. IQAC plays a proactive role in reviewing the current status and evolves programmes, policies and suggestions to improve quality in teaching and research.

As an outcome of continuous efforts towards quality improvement, the Institute has been accredited by renowned accreditation bodies and received many awards from prestigious national and international bodies.

Institutional Values and Best Practices

The Institute has adequate mechanism to solve the emerging challenges and issues such as gender equity, environmental sustainability, professional ethics etc. The Institute conducts gender equity promotion programto sensitize the students, which ensures the safety and security for them within the campus. It also inculcates ethical values and social responsibilities of the students.

The mentoring system is effectively carried out with the team comprising of faculty, alumni, industry mentors and professional counsellors to address academic psycho-social and career issues. The Institute also imbiosis awarness on climate change and environmental issues through Institutional core values. The Institute has well defined green practices that includes green campus, (about 2500 trees and plants) alternate and renewable energy sources like Solar electricity(190kWH solar plants in Six Buildings) which contributes 23.41% of total power requirement and 34.56% of annual lighting power requirement met by LED light sources with an annual expenditure of Rs3.94 Lakh and these measures are audited by TUV India. In addition the Institute established waste management measures which includes solid/liquid waste management (100KLD)

installed plant, e-waste management, Rain Water Harvesting etc. The institute also provides special infrastructure such as ramp for wheel chairs, Lift in all blocks, designated rest rooms etc for the differently able students. The Institute takes atmost care for the benefit to local community by conducting 61 techno-social activities. The Institute offers true spirit of education by consistently celebrating various national festivals and birth/death anniversaries of great Indian personalities.

Institutional Best Practices

- 1. AICTE sponsored- IIPC Many Industry Alliances and Partnerships, Industry Powered Centers are established which resulted in remarkable increase in Internship, In-plant training, industrial visit and placement.
- 2. Green Campus Initiatives –Since the need arise to protect the environment, prevent the waste of water and optimum utilization of energy resources in the campus, the institute adopts various green initiatives practices with the voluntary participation of students and staff members.

Institutional Distinctiveness

The Institute creates conducive learning environment with state-of-art infrastructure and laboratories and emphasize on inculcating ethical standards among students, both societal and personal through outreach programs.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College			
Name	DR. N. G. P. INSTITUTE OF TECHNOLOGY		
Address	Dr. N.G.P. Institute of Technology, Dr. N.G.P. Nagar, Kalapatti Road		
City	COIMBATORE		
State	Tamil Nadu		
Pin	641048		
Website	www.drngpit.ac.in		

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K. Porkumaran	0422-2369102	9894101804	0422-236910 6	principal@drngpit. ac.in
IQAC / CIQA coordinator	B. Shreeram	0422-2369145	9790935543	0422-236910 7	naac@drngpit.ac.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 minroity institution	No

Establishment Details	
Date of establishment of the college	14-09-2007

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

State	University name	Document
Tamil Nadu	Anna University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	21-12-2013	View Document
12B of UGC	14-03-2018	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory AuthorityRecognition/App roval details Inst 				
AICTE	View Document	29-04-2019	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes autonomydoc_1575016245.pdf
If yes, has the College applied for availing the autonomous status?	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?	Yes
If yes, name of the agency	AICTE CII
Date of recognition	09-04-2019

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Dr. N.G.P. Institute of Technology, Dr. N.G.P. Nagar, Kalapatti Road	Semi-urban	18.93	55763.43

2.2 ACADEMIC INFORMATION

Details of Pro	Details of Programmes Offered by the College (Give Data for Current Academic year)							
Programme Level	Name of Pr ogramme/C ourse	Duration in Months	Entry Qualificatio n	Medium of Instruction	Sanctioned Strength	No.of Students Admitted		
UG	BE,Biomedi cal Engineering	48	HSC	English	60	60		
UG	BE,Civil Engineering	48	HSC	English	60	22		
UG	BE,Compute r Science And Engineering	48	HSC	English	60	59		
UG	BE,Electroni cs And Com munication Engineering	48	HSC	English	120	72		
UG	BE,Electrical And Electronics Engineering	48	HSC	English	60	36		
UG	BE,Mechani cal Engineering	48	HSC	English	120	59		
UG	BTech,Infor mation Technology	48	HSC	English	60	53		
PG	ME,Comput er Science	24	BE	English	18	0		

	And Engineering					
PG	ME,Electron ics And Com munication Engineering	24	BE	English	18	5
PG	ME,Electrica l And Electronics Engineering	24	BE	English	18	2
PG	ME,Mechani cal Engineering	24	BE	English	18	3
PG	MBA,Master Of Business Administrati on	24	BSc BE B.Com BA	English	120	108
Doctoral (Ph.D)	PhD or DPhi l,Computer Science And Engineering	36	ME	English	2	2
Doctoral (Ph.D)	PhD or DPhi l,Electronics And Commu nication Engineering	36	ME	English	5	5
Doctoral (Ph.D)	PhD or DPhi l,Electrical And Electronics Engineering	36	ME	English	10	10
Doctoral (Ph.D)	PhD or DPhi l,Mechanical Engineering	36	ME	English	19	19

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				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Soci ety or Other Authorized Bodies				20				10)			133
Recruited	13	7	0	20	6	4	0	10	65	68	0	133
Yet to Recruit				0				0				0

Non-Teaching Staff							
	Male	Female	Others	Total			
Sanctioned by the UGC /University State Government		2		0			
Recruited	0	0	0	0			
Yet to Recruit				0			
Sanctioned by the Management/Society or Other Authorized Bodies				52			
Recruited	39	13	0	52			
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				33			
Recruited	11	22	0	33			
Yet to Recruit				0			
ualification Details of the Teaching Staff							

Qualification Details of the Teaching Staff

	Permanent Teachers									
Highest Qualificatio n	Professor tio		Associate Professor			Assistant Professor				
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	8	0	3	4	0	10	8	0	48
M.Phil.	0	0	0	0	0	0	1	17	0	18
PG	0	0	0	3	0	0	53	41	0	97

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

								1		
Part Time Teachers										
Highest Qualificatio n	Professor		Associate Professor			Assistant Professor				
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	27	0	0	0	27
	Female	9	0	0	0	9
	Others	0	0	0	0	0
UG	Male	1096	96	1	0	1193
	Female	564	28	3	0	595
	Others	0	0	0	0	0
PG	Male	121	6	0	0	127
	Female	110	5	0	0	115
	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	12	17	9	20
	Female	9	12	10	11
	Others	0	0	0	0
ST	Male	1	0	1	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	274	359	294	257
	Female	151	192	132	142
	Others	0	0	0	0
General	Male	19	21	23	37
	Female	12	20	8	16
	Others	0	0	0	0
Others	Male	0	0	3	0
	Female	0	0	4	0
	Others	0	0	0	0
Total		478	621	484	483

Extended Profile

1 Program

1.1

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

Response: 825	File Description	Document
	Institutional Data in Prescribed Format	View Document

1.2

Number of programs offered year-wise for last five years

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

2 Students

2.1

Number of students year-wise during the last five years

2018-19	2017-18	2016-17		2015-16	2014-15	
2030	2243	2268		2285	2272	
File Description		Docum	nent			
Institutional Data in Prescribed Format		View 3	Document			

2.2

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

2018-19	2017-18	2016-17		2015-16	2014-15	
505	505	505		505	505	
File Description		Document				
Institutional data in prescribed format		View	Document			

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

2018-19	2017-18	2016-17		2015-16	2014-15	
595	620	631		638	587	
File Description		Docur	nent			
Institutional Data in Prescribed Format		View	Document			

3 Teachers

3.1

2.3

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

2018-19	2017-18	2016-17		2015-16	2014-15	
163	178	190		191	174	
File Description		Docum	nent			
Institutional Data in Prescribed Format		View	Document Document			

3.2

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

2018-19	2017-18	2016-17		2015-16	2014-15	
163	178	190		191	174	
File Description			Docur	nent		
Institutional data in prescribed format			View	Document		

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 68

4.2

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

2018-19	2017-18	2016-17	2015-16	2014-15
629.73	446.61	491.19	551.89	488.65

4.3

Number of computers

Response: 911



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:

Dr.N.G.P. Institute of Technology, affiliated to Anna University, Chennai, follows a well planned and documented process for effective curriculum delivery. The institute adopts the curriculum in toto framed by the university for the various regulations.

There are various **Academic Committees** such as Internal Quality Assurance Cell(IQAC), Department Advisory Board(DAB), Program Assessment Committee(PAC) and Academic Development Cell(ADC) to ensure effective curriculum planning and delivery. Periodical meetings are conducted with stakeholders to evolve various strategies and monitoring mechanisms are in place. Based on the academic schedule of the affiliating university, the Institute prepares the **academic calendar** which comprises various academic, professional and extracurricular activities of the institution and departments for each semester. Course allotment is done based on skill matrix, experience and performance of the faculty. IQAC/ADC is responsible for coordinating all the programmes and ensures **Outcome Based Education (OBE)** is effectively practiced in teaching-learning process. Course Outcomes (COs) are articulated using revised blooms taxonomy for each course by PAC which are analyzed and approved by DAB. The relevance of COs components in achieving POs/PSOs is mapped. Setting of attainment targets for each course is done by PAC and it is analyzed and approved by DAB. Based on the mapping, curriculum gaps are identified and discussed in the DAB and activities are carried out to fulfill the gaps. Further, it is submitted to the university for curriculum revision.

The course instructor along with course coordinator/mentor frames the **teaching plan** that includes topics to be covered, pedagogy techniques to be adopted considering the knowledge/skill/attitude levels in-line with COs. The **time table** is prepared as per required contact hours. **Learning Management System (LMS) & Google Classroom** are implemented for effective delivery of curricular courses by uploading course materials which includes formula book, assignment, tutorial problems and solution, monitoring the progress of students conduct online assessments and content beyond syllabi are included in course/laboratory plan and delivered through **modern pedagogy tools**. Monitoring of course delivery and syllabus completion is done through class committee meetings. HoD monitors the conduct of classes, tutorial sessions and student performance. Tutorial sessions are conducted to facilitate group interaction and learning for active learning and problem solving. A comprehensive procedure is followed for conduct of examination and evaluation is done in a centralized and transparent manner by ADC. Expert lectures, workshops/seminars, field visits, virtual tour, skill based training are organized to supplement the curriculum gap.

The effectiveness of curriculum delivery is enhanced through online tests, assignments, class/internal tests and appropriate learning mentor interface. Based on the assessments, students are categorized into slow and advanced learners and the relevant activities are carried out. The curricular delivery and assessment are reviewed periodically and corrective measures are carried out through **Tutor Ward Meetings**, **Class**

Committee Meetings and **End-Semester Meeting**. Feedback on curricular aspects is collected from the stakeholders. Quality checks of academic programs are carried out through academic audits.

Comprehensive plan for effective curricular delivery through planning is illustrated below:



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

Response: 433

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

2018-19	2017-18	2016-17	2015-16	2014-15
19	22	23	20	16

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View 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: 50.78

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

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

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: 68.86

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

Response: 562

File Description	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 programmes in which CBCS/ Elective course system implemented.

Response: 12

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/Addon programs as against the total number of students during the last five years

Response: 83.24

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

2018-19	2017-18	2016-17	2015-16	2014-15
1062	1320	1032	918	588

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:

Cross cutting issues relevant to gender, environment science, human values and professional ethics are integrated into the policies of the institution. Students are sensitized to issues related to gender discrimination, environmental change, and human rights through talks in forums, campaigns and village adoption. Faculty creates awareness on these issues during their interactions with students. Club activities also promote exchange of ideas and awareness of social responsibility.

Gender: The Gender Equity Cell (GEC) was established in the year 2016, provides equal opportunities to both the genders in terms of admissions, activities, representation, leadership, trainings, employment. All the students receive equal attention in class rooms, labs, allocation of projects, leadership roles in department student's forums.

Women Development Cell(WDC) has been established in our institution since 2007. WDC and IEEE-Women in engineering affinity group initiates in organizing the seminars/lectures by inviting the specialist/eminent personalities to focus on women empowerment and promoting leadership qualities in women.

Each year, women's day is celebrated inviting eminent speakers from various fields of prominence in the society.

Environment Consciousness

The Institute has created a herbal garden inside the campus which is an island of medicinal varieties. Tree planting campaigns are organized in the institute vicinity. Renewable energy sources are effectively utilized across the campus by installing solar lamps, water heaters and solar panels. A campaign to save energy in classrooms was mobilized to save energy.

There is a course titled **Environmental Science and Engineering (EVS)** which highlights the causes, effects and control measures in environmental pollution, social issues in ecosystem and bio diversity. Courses like Environmental Impact Assessment, Air Pollution Management, Industrial Waste Management and Disaster management are chosen from the elective subject for imparting knowledge for environment management awareness.

Institute has established the **Environmental Awareness Club(EAC)** which takes care of environmental issues across the campus and organizes environmental activities like water day, national science day, earth day, Safe driving, living smoke-free, to promote the behavioral changes for environment protection.

Many Projects are undertaken by final year students like flood prediction, water pollution, sewage treatment, air pollution, vehicle pollution. Sustainability issues such as use of natural resources in building construction, materials, energy conservation are also dealt in projects.

Human Values: To inculcate good Human Values and Professional Ethics, the institute organizes several programs on Indian Heritage, culture, Gandhian thoughts, service to society, respect to others, work

ethics, moral theories, animal welfare and adapting to corporate world of diverse global standards.

Professional Ethics:

Elective courses as **Professional Ethics and Human Values** create awareness on engineering ethics and human values, to instill moral and social values and loyalty and to appreciate the rights of others. The Institute also lays emphasis on conducting various programmes on human rights, voter's day, SWACHH Bharath.

Industrial visits, internships and field projects iterate the importance of team work, leadership quality and professional ethics. Plagiarism checks are made for final year projects reports and research papers.

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: 188

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

Response: 97

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: 82.56

1.3.3.1 Number of students undertaking field projects or internships

Response: 1119

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

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	<u>View Document</u>
URL for stakeholder feedback report	View Document

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

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: 6.31

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

2018-19	2017-18	2016-17	2015-16	2014-15
139	141	133	145	141

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: 77.98

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

2018-19	2017-18	2016-17	2015-16	2014-15
479	622	587	626	540

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

2018-19	2017-18	2016-17	2015-16	2014-15
732	732	732	732	732

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: 80.35

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

2018-19	2017-18	2016-17	2015-16	2014-15
374	442	412	434	418

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:

Students of B.E./B.Tech are admitted through single window system of Tamilnadu Engineering Admissions (TNEA) based on their Higher Secondary Examination (HSC) marks.

Every year the institute organises **Fresher's Meet and Induction Program** for the students admitted to help them adjust to the new environment and inculcate in them the ethos of the institution.

The Institute assess the knowledge and skills of the students before the commencement of the programme by conducting **Entry Level Assessment Test** covering mathematics, basic sciences, language and soft skills. Based on the performance of students in the test, learning levels of the students are identified.

Every student, after admission would be put through a **Bridge Course** organised by the institute which reinforces the fundamental concepts and the required skills for technical education.

After students enter into the mainstream course, their performance is analysed periodically. Students based on their class room performance, internal marks and previous examination results, are categorized into different groups such as slow learner and advanced learner. The following figure illustrates the process of identifying the slow learners and advance learners.



Slow Learners: The Institute conducts special classes after every CIA to improve their academic performance. Separate timetable are scheduled for each course in the institute and hostel premises to clarify their doubts and re-explaining the difficult topics and follow-up tests are being conducted on need basis. The Institute organise special training sessions by the subject experts for the students to clear their backlogs. The Institute forms mentors for motivating them to reach particular academic goals. The performance of students is monitored and reported to the parents through college portal and PTA meeting. Modern pedagogical teaching methods such as peer group system, collaborative learning are adopted in which the advanced learners act as mentors for the slow learners to improve their performance. Alumni interactions with students are arranged periodically for motivation towards performance enrichment.

Advanced Learners: The students are continuously motivated by the course instructor to obtain high marks in end semester exam which results in university ranks. Apart from academics, the students are encouraged to participate in various co-curricular activities like student competitions, symposia, conferences, workshops, project contests and hackathon to make them compete with real world. The Institute established industry powered centers and e-learning facilities to improve their learning ability to succeed in competitive exams and certification courses. The institute provides opportunity to the students to participate in research internship program through tie-up with foreign universities like UTP- Malaysia, FAU-USA and Wayne state university-USA. The students can avail meritorious scholarships provided by the Institute. During vacation holidays/after college hours, soft skill training is organized by the Institute. The students are allowed to organize events in professional societies and student chapters, clubs, associations to build their leadership skills and ability to work as a team.

The process of teaching learning method and the initiatives for the slow learners and advance learners is illustrated in the following figure.



Activities and Outcomes:

	Activities for Slow Learners		Activities for Advance learners
• • • • •	Coaching & Remedial Classes Special sessions for arrear students Motivation and Counseling Peer group study Coaching in the hostel University question paper discussion Orientation on time management in university examination	 In M O Co Jo Ro Pr 	novative Industrial Project otivation for securing University Ranks nline Certification ompetitive Exam ournal Club esearch Publication roposal for funding Agencies & Awards
	Outcome		Outcome
St	udents are able to	Stude	nts are able to
•	understand the difficult concepts in an easy manner	• ge in	et exposure to state-of-the-art technologies the industry
•	write the appropriate answers for the university questions in stipulated time	• ca	erry out more industrial projects, ternships and placements
•	appear for the examinations with confidence	• ge	et certificates in technology enhanced arning courses through NPTEL, BEC, etc.,
•	produce fruitful results	• cl	ear competitive exams like GATE, GRE,
•	clear the backlogs	• pt	ublish papers in international journal and onference
		 su ag co 	bmit the proposals in various funding gencies like TNSCST, FAER, FORGE, TI empetitions, etc.,

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

2.2.2 Student - Full time teacher ratio		
Response: 137:11		
File Description	Document	
Any additional information	View Document	

2.2.3 Percentage of differently abled students (Divyangjan) on rolls		
Response: 0.3		
2.2.3.1 Number of differently abled students on rolls		
Response: 6		
File Description	Document	
List of students(differently abled)	View Document	
Institutional data in prescribed format	View Document	
Any other document submitted by the Institution to a Government agency giving this information	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

Response:

The Institute being affiliated to Anna University, Chennai, the role in design and development of the curriculum is limited. However the Institute takes necessary measures to bridge the gap in the curriculum so as to provide experiential and participative learning.

An **ICT enabled campus and IP enabled library facilities** provide the necessary support to studentcentric learning. Students engage in complex, challenging problems and collaboratively work towards a solution by connecting theoretical knowledge to real world problems. Teaching-learning is made more interesting and effective by the use of illustrations and demonstrations. Sophisticated equipments and tools are available in all the respective department laboratories and in library.

With the support of TLC, Innovative teaching learning methodologies and pedagogy tools adopted by faculty members to enhance the learning experiences are as follows:

- Lecture with
 - ° demonstration in laboratories, models/charts
 - animation
 - field visit
 - Simulation based trainings
- Collaborative learning
- Brain storming
- Role play
- Flipped classroom
- Think-pair share

• Problem/Project based learning

Experiential Learning:

- State of art laboratories have been established for students to impart the experiential learning through **Theory to Practice (T2P)** Lectures. Students and staff are encouraged to participate in IIT PALS activities.
- Institution established e-learning facilities and resources like Swayam Prabha technology DTH channel, Center for Teaching Learning (TLC), EDUSAT, A-VIEW, VALUE Virtual Lab, IIT B spoken tutorial, NPTEL, Learning Management System, e-books and e-journals, digital library to improve their creative thinking in technical and research fields.
- Institution established industry powered centers like Center for Robotics eYantra, Texas Instruments Center, NI LabVIEW academy, CISCO networking academy, Cyber security center, CDAC IoT research lab, Mathworks Academy, Salzer innovation centre to train the students on emerging technologies.
- Field visits have been organized as an extension of theory beyond classroom teaching.

Participative Learning:

- Institute in association with professional societies and chapters organize various activities like Hackathon, IEEE Xtreme programming competition, HENOSIS, Project expo, Hands-on training for students to participate and solve the real world problems.
- Institute in collaboration with IIT PALS, MHRD Institution Innovation council, FORGE to promote creativity and critical thinking among students through active participation in webinars, project competitions, residential training organized by them.
- Institute tie up with foreign universities for research internship and attachment programs that equip them to excel in global competitions.

Problem Solving Methodologies:

- Assignments in higher level of thinking are given to the students to break down ideas into simpler parts and find evidence to support self-learning abilities.
- Students are encouraged to find out the solutions for real time problems via case studies, hackathon and field/industrial projects.
- Field visits, In-plant trainings have been organized through IIPC to make the students acquaint with industry standards and work ethics.
- Tutorial classes are being conducted for analytical courses in which modern pedagogical tools like group tutorial, collaborative learning are practiced by the students for improving their problem solving ability.
- Industry based projects are being carried by the students.

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: 92.02

2.3.2.1 Number of teachers using ICT

Response: 150

	and a set of the set o
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: 979:68		
2.3.3.1 Number of mentors		
Response: 141		
File DescriptionDocument		
Any additional information	View Document	

2.3.4 Innovation and creativity in teaching-learning

Response:

The institute encourages the faculty to use the modern teaching aids to strength the OBE practice. Teaching pedagogies have been modified over time to facilitate innovation.

The Institute organizes orientation programs, skill upgradation programs faculty members are encouraged to attend FDPs/STTPs concerned with effective teaching learning methods conducted by reputed institutes like IITs/NITs. The Institute organized a faculty development programme on **Instructional design and delivery system** in association with National Institute of Technical Teachers Training and Research (NITTTR), Chennai, under MHRD. Institute provides facilities to learn through online certificate courses such as modern pedagogy tools, soft skills, OBE practice and teaching learning tools via Institute NPTEL
local chapter and IIT-B Spoken Tutorial.

Students are encouraged to being innovative, think critically and creatively in solving their assignments, projects, tasks assigned to them. In association with MHRD, the Institute has established Institute Innovation Council (IIC) to enhance the creative thinking of the student community to work on new ideas, innovations. Institute has established various centers of excellence for enhancing the innovation and creative learning abilities of the students.

The Institute provides facilities such as Center for Teaching Learning (CTL), Language laboratory, smart class, Digital class rooms with Wi-Fi facilities. Other e-learning resources like Course era, LMS, google class room, A-VIEW, NPTEL videos, e-books and e-journals provide effective learning experience of the students at the campus. The Institute has setup IP enabled digital library to access e-journals and transaction papers from IEEE, ASME, ASTM, Science Direct, EBSCO, ELSEVIER and SPRINGER that helps the students to understand the concepts in the course effectively.

The following approaches are adopted by the faculty towards innovation and creativity in teaching:

- **Group Assignments/Projects and Activity based learning** to improve positive interdependence, individual creativity and confidence building.
- **Presentation and Brain storming** to increase active student participation and cross pollination of ideas.
- **Case studies** to present real-time industry situations to diagnose specific problems and provide suitable solutions.
- **Tutorials** involving students in smaller groups often led by academic tutors/peer groups.
- **Digitalized learning materials** on the web portal and E-learning resources.
- **Project and demonstration** to provide innovative thinking towards a solution by connecting theoretical knowledge to real world problems.
- **Teaching aid and Model Development** to initiate creative thinking thereby making the learning environment more interactive.
- Role Play and Activity based learning to provide a meaningful process by which a student can construct knowledge and understandings, practice skills, immerse themselves naturally in an intrinsically motivating learning environment.
- Simulations Used to resemble the intended environment
- Gamifications to evaluate and reinforce learning in a student-friendly manner

The learning outcomes of the above approaches facilitate the impetus to the students for securing University ranks, project awards, prizes in technical meets and industry projects. The individual attention and tutorial sessions have drawn out innate capabilities in the less demonstrative learner into active learners.

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: 21.95

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

2018-19	2017-18	2016-17	2015-16	2014-15
47	42	36	37	32

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: 10.04		
2.4.3.1 Total experience of full-time teachers		
Response: 1636.62		
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: 111.05

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

2018-19	2017-18	2016-17		2015-16	2014-15
1	1	0		0	1
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: 0.66

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

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

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:

The Institute is affiliated to Anna University, Chennai and follows the examination pattern of the University. Internal evaluation system of the institution is continuously monitored, reviewed and modified for its effectiveness by ADC.

The institute has reformed the continuous internal evaluation system from faculty centric to student centric.

The ADC has framed guidelines for conducting the CIE in line with the calendar of the affiliating university and the institution. As per the guidelines, the following reforms have been carried out for effectively conducting CIE:

- Scheduling of internal examination, seating arrangements, hall invigilators and squad duty list for every examinations.
- Syllabus coverage report has been submitted to principal before the commencement of examinations from the respective departments.
- Collecting the list of subject experts as question paper setters from the respective departments.
- Preparing the question paper for the internal examination in the prescribed pattern at ADC based on knowledge level using revised Bloom's taxonomy.
- Scrutiny of the prepared question paper is carried out by HoD/Subject expert to ensure quality at ADC.
- Monitoring the attendance of the students for the examination
- Centralized internal assessment system is being practiced with approved scheme of evaluation. The assessment has to be carried out within the stipulated time.
- Entering the assessment marks in key-in campus portal by the faculty on the same day of evaluation.
- Corrections in assessment marks to be updated only after getting approval from head of the institute.
- Uploading of CIE marks in students' portal.
- Result review meeting are conducted with result analysis and the remedial actions for further improvements are arrived after discussion with Faculty, HoD and Principal.
- Upload of assessment marks in university web portal and subsequently communicated to parents.



The *evaluation for theory courses* are assessed in direct mode (80%) covering both internal and university examinations and indirect mode (20%) covers survey. The course mentor at the beginning of each semester frames the assessment plan and rubrics. Assignments are given on a regular basis and are also evaluated. The result review meeting for each internal assessment is conducted by the Principal and HoD. The course instructor also verifies the students' knowledge level by conducting formative assessment.

The *evaluation for laboratory courses* are assessed in the similar pattern followed for theory courses. For each laboratory sessions, the student is assessed through viva questions, observation and performance. Also, additional laboratory experiments, VALUE virtual lab and mini project is carried out and evaluated.

The *evaluation for project course* are assessed by conducting periodical project reviews covering key parameters like problem formulation, understanding of the project, presentation skills, communication of ideas, technical knowledge, team work and project management. The Project review committee organizes one preliminary and five review meetings to assess the progress of all the project batches. A project expo is organized to exhibit the working model. Experts are invited to assess the quality of projects and the best project is rewarded during the annual day function. The lab to land project are reviewed by the IPR review

committee and processed for patenting.

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:

Institution follows a transparent and robust system for internal assessment framed by ADC. The process of continuous internal evaluation includes scheduling, conduction and post assessment.

Scheduling of CIE:

The Institute circulate the students calendar which covers the schedule of internal assessment at the beginning of each semester. The same is available in institution website, student portal and parent portal for ease of accessibility. Before each CIE, ADC releases a circular with the following activities:

- Question paper pattern,
- CIE schedule,
- Prepares the seating arrangement and displays in the students notice board,
- Collects and submits the syllabus competition status report from each course handling faculty to principal within a stipulated time,
- Availability of assessment test booklets in the department,
- Schedule of revision class,
- Preparation of question paper within a stipulated time,
- upload of CIE marks in the Key-in campus,

Conduct of CIE:

The department ADC coordinator as per the circular received from ADC does the following activities:

- Prepares a list of course experts who prepares the Question paper for each course,
- Prepares and circulate the list of invigilators for the CIE,
- Ensures the availability of answer scripts,
- Reports the list of absentees to principal for each exam,
- Submits the scripts to ADC for valuation.

The ADC does the following activities:

- Collects repository of question banks at dark room,
- Facilitates provision in dark room for setting up of Question Paper,
- Prepares the list of squad members to ensure strict vigilance and discipline to avoid malpractice,

- Ensures scrutiny of Question Paper by concerned head of the departments/subject expert,
- Distributes Question Paper on the day of the exam to respective department ADC coordinators,
- Student absenteeism for internal examination session is generated and SMS sent to parents mobile
- Collects and retains the written answer scripts in central valuation hall,
- Facilitates the evaluators to evaluate the answer scripts in central valuation hall,
- Ensures the completion of valuation and entry of CIE marks in key-in campus within stipulated time,
- Conducts periodical academic audits for CIA.

Post CIE:

The course instructor interacts with students about the scheme of evaluation and distributes the corrected answer script within stipulated time. The discrepancies in marks awarded will be rectified by the course instructor after getting approval from the HoD and Principal. If student is not able to attend an internal examination due to sports/placement/medical/academic reasons, then the student is given an opportunity to appear for re-test. The internal assessment marks are communicated to parents through SMS, parent portal and university portal and it can be viewed by the students/parents.

The mechanism for CIE is illustrated in the following figure.



Parents Teachers Association (PTA) meetings are organized in each semester. During PTA meetings, parents are communicated about their wards performance in internal assessment, including attendance, curricular/extra-curricular activities and their achievements.

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 has devised an efficient mechanism to deal with examination related grievances which is transparent in the pattern & conduction of CIE and rectification of grievances is time bound.

The institute organizes Fresher's meet for students enrolled in the first year and their parents in which the processes of the internal and external examinations are sensitized. University conducts examination and allocates 80% marks for the end semester exams and 20% marks from their performance in CIE. Marks secured in CIE and attendance is entered periodically in the University web portal for awarding of internal marks and generating of hall ticket for end semester examination.

HoDs/Faculty regularly address the students about the mechanism followed by the Institute such as conduct of examination as per academic calendar, time duration, mark allocation, conduct of re-test in CIE for special cases, central evaluation, discussion on answer scripts with scheme of evaluation, publication of result, photo copy of university answer script, applying for revaluation if deviation in marks, scope for challenging the revaluation result, grading system, securing university rank/distinction/class.

ADC and Exam cell have been constituted by the institute to address all examination and evaluation related grievances arising during CIE and end semester exam respectively.

Internal Evaluation:

The institute has a transparency in internal examination by giving the provision to students for reporting the discrepancy in question paper to hall superintendent, who intimates to ADC and Principal. Further, the grievance will be conveyed to the respective HoD for rectification. Also, the corrective actions will be carried out by the concerned HoD to make the examination process error free in upcoming exams. The evaluated answer scripts are distributed to concerned students to verify the marks awarded based on the scheme of evaluation. In case of discrepancy, students clarify and get it rectified by the concerned faculty. After this process, CIE marks and attendance will be entered in the portal, which can be viewed by the students. The institute implemented corrective measures redressed by the students in CCM,TWM, PTA, Mentoring meeting are listed below:-

- Preparing special time table for recapitulating the course content delivered
- Arranging revision classes on the day of exam
- Rescheduling of exam on need basis
- Formatting of answer booklet for CIE similar to university answer booklets
- Revising the question pattern in line with university norms

University Evaluation:

The institute displays the schedule of exam circulated by the affiliating university. The internal mark is viewed by students and it is displayed in the student notice board. Feedback on university question paper is submitted to the exam cell. The discrepancies such as data missing, lengthy question, out of syllabus are communicated to the university through online web portal on the day of exam itself. After the university results are published, the student can receive the photocopy of answer script for applying revaluation/challenge re-valuation on need basis. Students with health issues/partial disability can approach the university through institute exam cell for allocating separate venue and providing extra time.

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:

Being an affiliated Institute, the university schedule is reflected in the Institute's academic calendar. The academic calendar containing plans for curricular and co-curricular activities based on the available working/teaching days as per university norms is prepared by IQAC. It also includes the process of CIE while designing the academic calendar of the Institute. Based on Institute's academic calendar, department prepares its academic calendar showcasing events planned by individual departments. The academic calendar is circulated to all faculty before the commencement of the semester. The process of CIE include the academic calendar of the Institute are listed below:



Theory Courses:

- Display of internal examination dates,
- Submission of question paper for the internal examination in the prescribed pattern at ADC,
- Date of exams prescribed in academic calendar is followed for conducting the internal exam
- Internal Exam marks of each courses are entered in the key_in campus portal for performance analysis
- Result review meetings are conducted by Principal with faculty and HoDs.

Laboratory Courses:

- Model practical exam for all laboratory courses are conducted as per the schedule prescribed in the academic calendar.
- Display of mini projects carried out by the student groups for all the laboratory courses.
- ° In concurrence with the slot provided by the affiliating university, the schedule of university

practical examination is prepared by the respective department and published for student notice.

Project Courses:

- Project confirmation review will be carried out in the start of the semester
- Review of students' project periodically as per the project guidelines
- Display of students' project in project expo competition organized by the Institute
- Submission of report for the project carried out
- External review is carried by experts from industry and academic
- In concurrence with the slot provided by the affiliating university, the schedule of university project viva-voce exam is prepared by the respective department and published for student notice.

Each department conducts seminar presentations by the student based on the in-plant training undergone by them during their vacation holidays as per academic calendar of the department. At the end of the semester, HoD verifies the conduct of activities as per the schedule and the report submitted to the Principal.

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

2.6 Student Performance and Learning Outcomes

2.6.1 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 a well-structured committee to frame COs and POs/PSOs for all programmes and dissemination pattern to communicate to all the stakeholders.

During the 14th GC meeting the amendment was made to implement OBE in the institution. The Institute has formulated well defined Vision and Mission statements and in correlation with this, each department formulated its own vision and mission statements which have been approved by academic council. The department formulates the Programme Educational Objectives (PEOs), Program Specific Outcomes (PSOs) for each programme and Course Outcomes (COs) for all the courses in the curriculum. The department collects the views from various stakeholders, summarizes and formulates POs/PSOs/COs by PAC which are analyzed and approved by DAB for effective implementation. The approved statements are published in the institute website and communicated to various stakeholders.



POs/PSOs formulation:

The Graduate Attributes (GA) of UG Engineering Program defined by NBA is adopted without alteration as Program Outcomes (POs). Articulation of PSOs and identification of the knowledge/Skill/Attitude Level were done through sequence of meetings based on the suggestions from stakeholders.

COs formulation:

Articulation of COs based on revised bloom's taxonomy and identification of the knowledge/Skill/Attitude Level were framed by course handling faculty and course coordinator with the suggestions of course mentor. COs are mapped with POs/PSOs by course handling faculty with the suggestions of course coordinator/course mentor. Verification of compliance for attaining the POs/PSOs by PAC for all the courses. If there is any non-compliance, then PAC identifies the slightly Supported POs/PSOs. Based on the recommendations of PAC, additional COs and activities to support POs/PSOs are framed. Content beyond the syllabi/Virtual Lab Experiments/Co-Curricular Activities for better compliances were approved by DAB. The identified curricular gaps were communicated to the Director – Academics, Anna University through the Head of the Institution. Recommendations of DAB for better compliances were implemented by the course handling faculty in Teaching-Learning Process.



Mechanism for publication and dissemination:

The Process for publication and dissemination of the stated Vision, Mission of the Institute/department, POs/PSOs/PEOs/COs of the programme are carried out by the listed mechanism:

- Website/Social media: POs/PSOs and COs are published in the college website, department website and also circulated to the students through Email and by uploading posters in the social networking sites.
- **Posted Location:** Banner is exhibited in the main foyer of the concern department. They are also prominently displayed on the Department notice boards, Laboratory notice boards, Cabin of all faculty members, HoD cabin, Department library and Classrooms.
- **Catalogues of the department:** Distributed to the students during admission and to the industries. Apart from this, the catalogues are disseminated to all the stakeholders of the programme through faculty meetings, PTA meetings, Alumni meets, Workshops, Conference, FDP and through electronic media.
- Curricular Books and Department Publications: Vision and Mission are published in the Academic Calendar, Practical Observation, Record Note, Handbook, Faculty Log book, Department Magazine and Newsletter.

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:

Institute evaluates the students level of achievements interms of attainments of course outcomes, programme outcomes and programme specific outcomes. For each programmes, the attainments of each POs/PSOs are evaluated at the time of graduation and the attainments of COs for each course at the end of each semester.

CO Attainment Process:

The attainment for each course are generally divided into two types:

- 1. Direct Assessment
- 2. Indirect Assessment

The direct assessment is measured from internal assessment and external assessment. The internal assessment for each course is done based on:

i. Formative assessment through student response system – online mode, one minute paper, Quiz – online / offline modes, Multiple choice Questions – Online mode, Viva questions, observation and record – Cycle marks and,

ii.Summative Assessment through internal test, class test, assessment, tutorial, model exam, mini-project.

The indirect assessment is measured through course end survey.

Process for measuring CO attainment:

- 80% of formative and summative assessments are carried out to calculate the direct attainment of courses.
- 20% of Course End survey is considered to calculate indirect attainment of courses.
- From the above direct and indirect attainment of all the courses, 100% of course attainment is obtained.

Process used for setting course attainment benchmark values:

- The course wise university grades for previous years were analysed
- The course proficiency and the level of attainment are set by course coordinator

- The appropriate course target level for entire programme are set by PAC, summing the level of CO attainment and appropriate revision based on the chosen grades.
- The set course target levels are reviewed and approved by DAB.
- The set target level is revised after attainment of three consecutive batches is achieved



PO Attainment Process:

The attainment for each course is generally divided into two types:

- 1. Direct Assessment
- 2. Indirect Assessment

PO attainment process:

The direct assessment is measured from 80 % CO attainment and indirect assessment is measured from 20% of Graduate Exit survey.

PSO attainment process: The direct assessment is measured from 80 % CO attainment and indirect assessment is measured from 10% of alumni survey and 10 % of graduate exit survey



Process used for setting POs/PSOs attainment benchmark values:

- 1. The target levels for POs/PSOs attainment are for entire programme are set by PAC considering the POs/PSOs attainments of previous batches
- 2. The set POs/PSOs target levels are reviewed and approved by DAB.
- 3. The set target level is revised after attainment of three consecutive batches are achieved.

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

2.6.3 Average pass percentage of Students

Response: 82.69

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

Response: 492

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

Response: 595

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: 3.97

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: 235.87

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)

2018-19	2017-18	2016-17	2015-16	2014-15
1.34	0.4	0.15	1.318	0.93

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document
Any additional information	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 12.27

3.1.2.1 Number of teachers recognised as research guides

Response: 20

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: 1.98

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

Response: 23

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

Response: 344

1		
File Description	Document	
Supporting document from Funding Agency	View Document	
Any additional information	View Document	
Funding agency website URL	View Document	

3.2 Innovation Ecosystem

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

Response:

The institute has innate tendency to foster the culture of innovation inside the campus through various clubs/cells/centers for the research community and academic fraternity.

With the objective of innovation in mind a broad spectrum of initiative are implemented.

- 1.**IIPC** to provide opportunities for the students and faculty through field visit, industrial trainings, internships, projects, industry lecture series, seminars, MoUs.
- 2. **Institution Innovation Council (IIC)** under **MHRD** innovation cell to nurture young professionals by exposing them to new ideas and processes resulting in innovative and entrepreneurial activities.
- 3. **Idea & Innovation Club** under IIC to create awareness, educate, nurture and inculcate a culture of innovation aiming at idea and product innovation.
- 4.**IIT PALS**, an initiative of IITAIIC (IIT Alumni Interaction Centre), Chennai to channel the resources available within the IIT alumni community across the corporate, academic and entrepreneurial domains.
- 5. **IPR cell** to sensitize and create a conducive environment for protecting ideas and new innovations
- 6. Centers of Excellence to serve as a competence delivery center and to address the current challenges in learning technology and implementation
- 7. Association with **KMCH Research Foundation** (**DSIR approved**) to conduct meetings, conferences, symposium and projects in healthcare research to disseminate and acquire information.
- 8. **Dr.NGPIT Aosta Technology Incubation Center** to provide technical assistance to students in mobile app development.
- 9. **Research Attachment and internship Programme** with foreign universities to create conducive environment for the development of product towards research contribution.

Outcomes:

1.IIPC has entered into agreement with **68 leading industries**, research organizations and foreign universities. Around **1676** students were benefitted in the year 2018-19 towards in-plant

training and industrial/field visits.

- 2. Under the banner of IIC, the institute organized **12 events** and submitted **4 Proof of Concepts** (**PoC**) towards student's innovation. One of the projects submitted for PoC was shortlisted as finalist. This enhanced the status of the institute from single star to **four star ranking**. All these activities were submitted for **ARIIA**.
- 3. Idea and Innovation club motivated the students to participate in Boot camps organized by Forge Factory, Coimbatore and IIT PALS Chennai. Students regularly participated in TI-DST IICDC competition, IEEE Xtreme Competition and SIH. **30 proposals** were submitted for **SIH 2019** in which **1 proposal in hardware edition** was shortlisted for final stage. Out of 2740 projects, one of our students projects were shortlisted as finalist in **IICDC 2016** organized by **Texas Instruments** and received a grant-in-aid of **Rs. 5 Lakhs from DST** and cash prize of Rs.75,000/-. **2 Batches** were shortlisted as Finalist in **Tamilnadu Student Innovator 2017** project competition.
- 4. The institute had tie up with **IIT PALS** for 2 years in which more than **500 students and 50 staff** were benefitted.
- 5. The institute regularly organizes seminar towards IPR in which 17 patents published by the faculty members.
- 6. In tie-up with foreign Universities, **13 students** completed RAP at Universiti Teknologi PETRONAS, Malaysia and **4 students** at Florida Atlantic University, USA.
- 7. In collaboration with DSIR sponsored KMCH Research Foundation, the institute organized **2** workshops and 1 project proposal approved worth Rs. 6 Lakh sanctioned by ICMR.

File Description	Document	
Any additional information	View Document	
Link for 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: 457

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

2018-19	2017-18	2016-17	2015-16	2014-15
14	13	11	11	9

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

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

Response: 1.95

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 38

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

Response: 20

File Description	Document
URL to the research page on HEI web site	View 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: 3.3

33411	Number of	f research i	papers in the	Journals n	otified on	UGC y	website (during the	last five y	vears
5.5.4.11	vuinoer of	researen	pupers in the	Journais n	iounica on	000		uuring me	idst inve j	Cars

2018-19	2017-18	2016-17	2015-16	2014-15
101	93	79	41	50

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: 2.98

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

2018-19	2017-18	2016-17	2015-16	2014-15
77	82	55	6	1

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:

The institute is taking various initiatives towards extension and outreach activities for the neighborhood community and motivates the student's social participation to understand the social issues with ethical values. A mission statement for inculcating these ethical standards through outreach programs is practiced. This is further incorporated into the curriculum.

The institute established **11 technical clubs and 14 non-technical clubs** in which various extension and outreach activities like blood donation camp, swachh bharat, unnat bharat abhiyan, tree sapling, hazards of plastic use, traffic rule awareness rally were organized for the benefits of the neighborhood community. Students and staff took part in various activities in collaboration with government and non-governmental bodies, industry and community.

The institute has supported the village named **Veeriyampalayam** in which a hospital establishment and basic needs for education were carried out regularly. In collaboration with KMCH, the institute organized a **Medical Camp** and 1000 beneficiaries were screened for various tests like, B.P using Sphygmomanometer, Doppler ultrasound test, blood tests, ECG, CMT scanning and Fibro Scan.

The institute in association with MHRD and Government of India, organized 100 hours of **Swachh Bharat Summer Internship**. 48 students from the institute visited villages like Pasur, Chinnathadagam, Veerapandi and they carried out the activities like Door to Door Meetings, Medical Camp, Street Play, Environment conservation awareness – Industry & School Students, Clean India Awareness - Rally, Screen Play. The outcome of this activity enabled to reach as finalist in swachhta ranking 2019.

The institute has adopted five villages under Unnat Bharat Abhiyan (UBA) namely Akkaraisengapalli, Palayur, Ganapathipudur, Kakkadavu, Jallipatti aiming at transformational change in rural development processes to help build the architecture of an Inclusive India. The institute has conducted activities such as awareness camp, Swachhata Hi Sewa Campaign, customization of solutions and development of new technology for societal issues in each village. The institute has initiated 15 ideas to implement in the villages for the technology development.

Some of the major activities carried out by the institution during the last five years are:-

- Rural Diabetic Survey at various parts of Tamilnadu in association with IIT Madras on 07.09.2018.
- **Pollution and Hygenic Environment** in collaboration with village voice at Palamalai on 14.08.2018.
- **Bio-science with its opportunities** to the nearby schools in collaboration with **YOU & US NGO** on 05.07.2018
- **Traffic rules and Road Safety programme** in association with **UYIR club** at Avinashi highway Road on 06.10.2018
- Cleaning and painting Railway Station at Podhanur in association with Imayan Social Welfare on 11.04.2018.
- Tree Plantation palm tree at Neelambur through environmental awareness club on 24.08.2017
- Yoga to improve Concentration to neighborhood school through yoga club on 20.10.2017.

- Joy of Giving through Rotaract Club of Green City for the people affected in Kerala flood on 13.10.2017.
- Pollution Awareness Rally in association with NSS unit on 26.06.2015
- Blood Donation Camp in connection with KMCH at Veeriyampalayam on 20.09.2015.
- Voter Awareness Programme through Rotaract Club at Kalapatti on 15.07.2014.

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: 92

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

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

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document
Any additional information	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: 344

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

Reports of the event organized			х. т	Do occurre o m t		
File Description			Document			
10	70	59		55	50	
018-19	2017-18	2016-17		2015-16	2014-15	
	018-19 10 e Description	018-19 2017-18 10 70 e Description	018-19 2017-18 2016-17 10 70 59 e Description 10 10	018-19 2017-18 2016-17 10 70 59 e Description Docum	018-19 2017-18 2016-17 2015-16 10 70 59 55 e Description Document	018-19 $2017-18$ $2016-17$ $2015-16$ $2014-15$ 10 70 59 55 50 Document

Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document
Any additional information	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: 43.8

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. yearwise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
993	973	886	798	620

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	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: 972

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

2018-19	2017-18	2016-17		2015-16	2014-15
173	201	255		183	151
		· ·			
File Descriptio	n		Docur	nent	
		Docum			
Number of Collaborative activities for research, faculty etc		View I	Document		
Copies of collaboration		View 1	Document		
Any additional information		View I	Document	1	

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: 56

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)

2018-19	2017-18	2016-17	2015-16	2014-15
12	07	05	3	8

	성장 것 같은 것 같
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
Any additional information	View Document

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 established policies and procedures to create the infrastructure on par with requisite standards and norms, by adhering to the rules and regulation of **regulatory bodies** like AICTE, Anna University, etc. which includes human resources (Faculty, Technical and Administrative staff), laboratory equipment, built-up place, and learning resources. The institute aims at creation and enhancement of sustainable infrastructural facilities that supplement the teaching learning process.

As such it successfully conducts the programmes offered in undergraduate, postgraduate and research level. The college spans over 18.93 acres of sprawling and a serene green campus. The campus has well planned infrastructure comprising of 48 ICT enabled class rooms, 2 drawing halls, 11 tutorial halls and elective classroom, 45 laboratories,10 industry powered centers, 9 seminar halls, 9 board room, department and IP enabled central libraries, conference centre, center for e-learning with resources like Swayam Prabha technology DTH channel, EDUSAT, A-VIEW, IIT – B spoken tutorial, NPTEL local chapter, Learning Management System and Center for Teaching Learning (CTL), e-books and e-journals, digital library to improve creative thinking and skills in technical and research fields; In collaboration with AICTE funded IIPC, Institution established industry powered centers like Center for Robotics – e-Yantra, Texas Instruments Center, NI LabVIEW Academy, CISCO Networking Academy, Cyber Security Center, CDAC-IoT Research lab, Mathworks Academy, Salzer innovation centre to train the students on emerging technologies. The sports facilities like play grounds, indoor auditorium, gymnasium to motivate the team spirit and leadership qualities among students. Extensive computing facilities with **1092 terminals** and **13** Wi-Fi hotspots at prominent locations connectivity with **88 Mbps** leased lines are available throughout the campus.

Optimal deployment of infrastructure is ensured through conducting workshops awareness programs/training programs for faculty and students. Effective utilization of infrastructure is ensured through appointment of adequate and well qualified lab technicians/ system administrator. The available physical infrastructure is utilized beyond regular college hours, to conduct certificate courses, co-curricular activities/extra-curricular activities, campus recruitment training classes, campus recruitments, meetings, seminars, conferences etc. It is used as NTC authorized center, examination centre for bank recruitment examinations, Government examinations/Online Examinations.

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:

To inculcate team spirit and leadership qualities among students, by encouraging the students to participate in various sports and games from inter-college level to national level with a qualified sports director. Sports facilities have been established for various games like cricket, football, basketball, and volleyball to ensure the focus of the institute in providing extra-curricular activities to the students.

Sports complex of the institution includes separate blocks (Sport Arena) for indoor games like Badminton, Table Tennis, Carrom and Chess. For outdoor games it has a Volleyball, Basketball, Ball-Badminton, Throw ball, Cricket, Football, Hockey, Tennicoit Court, Kho-Kho, Kabaddi grounds, 400m standard track – field (8 lane running track, Throwing events, Jumping events)

Gymnasium centre of the college has Treadmill, Cycling, Elliptical cross over machine, Leg press, Leg curl, Bench press, Leg extension, Shoulder press, Arm curl, Inner thigh press, Outer thigh press, Twister, Abdominal curl, Abdominal press, Chest press, Chest curl, Rowing machine, Weight plates 250Kg, Weight rod 2Kg and Dumbbell.

Regular cultural activities, on stage and off stage events were conducted through music & dramatic club of the institution, the talents in Dancing, Singing, Instrumental music, Dumb Charades, Mime shows etc., are identified and encouraged to participate in various cultural activities inside and outside the college.

Functions like Tech Fest, Independence Day, Republic Day, Sports day, Teacher's Day, Engineer's Day, Women's Day, Annual Day etc., are celebrated.

Extra-Curricular Activities

The college organizes events related to NSS, Yoga and YRC. There are nearly 25 different clubs pertaining to various topics of interest ranging from Health club to Robotics and others.

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: 68

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: 32.09

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

2018-19	2017-18	2016-17	2015-16	2014-15
177.96	383.39	98.48	114.95	476.52

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:

OPAC (Online Public Access Catalogue) facility is made available through **CAMPESILIB Library Management Software** to search the bibliographical details about the collections. Three separate nodes are made available in the Central Library for **OPAC** facility.

The college has central library and nine department libraries. The reading room is well furnished to accommodate 250 students at a time and provides conducive environment for study. Exclusive reference section is available in the library. E-gate entry and exit is maintained for students and staff.New arrivals of books and journals are displayed on separate stands and racks.

Security of resources is ensured through a system of checking at the exit point for all resources borrowed by the users. CCTV cameras are fixed in the library for strict surveillance.

Electronic Resource Management package for e-journals

The library subscribes IEEE All-Society Periodicals package, ELSEVIER Science Direct package and DELNET through IP based access. A well-equipped Digital Library with **16** nodes having Internet connectivity is housed in the Central Library for accessing e-resources. As the access facility to e-journals is multi-user and IP based, students can access the E-Resources from anywhere in the campus.

Library Automation:

All the active book collection is updated in the CAMPESiLIB Library Management Software database version 6.4.10 and the OPAC is available for the users. The issue and return of books has been activated with the CAMPESiLIB Library Management Software.

Facilities available:

Printers, Scanners, Photocopy Machine: 09

Internet bandwidth: 88 Mbps

Document	
View Document	
View Document	

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

Response:

The institute has established IP enabled library having access to e-books, e-journals, e-ShodhSindhu and transaction papers from IEEE, ASME, ASTM, Science Direct, EBSCO, ELSEVIER and SPRINGER.

The central library has over 31957 books, 6872 reference books, 3260 – ebooks, Rare books – Non Engineering - 58, Hand Books – 184, Rare collection of Engineering books in main library – 174, Rare collection of Engineering books in Department library – 64. Other Collection of Rare Books like Encyclopedias, Handbooks, Dictionaries and other high value books. Videos beyond syllabus – 3548 CDs. Library is providing resource for higher education and career guidance with GATE books -195and Competitive exam books -181.

Book Bank facility is one of the important facilities for students coming from under privileged section of the society with 1360 volumes. Library has also made provision for students to refer old question papers for preparing their examination and 2895 - old project reports of students for references.

Because of convenience, relational mobility, low cost of content, we are making provision for our users to access e-resources through subscription, consortia basis and freely available / open source resources.

LMS (Learning Management System) and Google class rooms

The main objective of learning management systemis to enhance the teaching and learning process. It is an IP enabled online software, established in 2014 which is used to share the course content to students. LMS is also used to share various learning resources to the students with anytime and anywhere accessing. LMS provides a forum for discussion among the student community.

All the contents shared in the class room are also uploaded in the website for students' reference. Anyone can access the LMS using the below IP address using their individual LoginID. Mobile LMS using personal mobile phone.

IP address for inside the campus: http://117.239.68.151/lms/login/index.php

IP address for outside the campus: http://172.18.0.4/lms/login/index.php

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 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: 21.28

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

2018-19	2017-18	2016-17		2015-16	2014-15
22.71	18.91	23.12		27.88	35.03
File Description			Docun	nent	
Details of annual expenditure for purchase of books and journals during the last five years		View I	Document		
Audited statements of accounts		View I	Document	1	
Any additional information			View I	<u>Document</u>	

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: 37.48		
4.2.6.1 Average number of teachers and students using library per day over last one year		
Response: 708		
File Description Document		
Any additional information <u>View Document</u>		

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The institute has well structured IT facilities with 88Mbps bandwidth for 24x7 connectivity. The institution has wired and 15 Wi-Fi hotspot at prominent locations -wireless connectivity for use of students and faculty members across the campus including the hostel.

A separate team with in-house staff is constituted to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, etc.

IT infrastructure and internet facilities:

- **48Mbps** of dedicated 1:1 leased line internet connectivity from BSNL and standby internet connectivity of **40Mbps** from Internet Service Providers (ISP) wire line solutions for education and research needs.
- MAC-binded 'Wi-Fi' provision at selective in-campus hubs and hostels.

Secured IT Infrastructure by **Sophos XG Firewall** and **K7 Enterprise Endpoint Security** software suite that supports 1000 users.

- Desktops (1092) from various brands with latest processor capacity.
- Compatible branded **Higher-end servers** (4) to meet the IT-specific tasks like file, database, virus and backup management.
- Printers (66), Copiers (3) and Scanners (10) for document imaging and reprography.
- Healthy connected 'CAMPUS-LAN' via structured Optical Fibre and CATx cabling throughout the entire campus for anywhere data access.
- Piracy-free IT environment through proper licensing of software. Tailored 'Microsoft Campus Agreement (MCSA)' to utilize the latest Microsoft products.
- A separate 'Open-source Lab' to extend open-source migration.
- 'Language Lab' with audio-video gadgets and state of the art communication teaching-learning tools.
- Supportive IT atmosphere for **NPTEL** learning, **A-VIEW** workshop, **EDUSAT**, **Value-added** courses and various placement training programmes.
- A dedicated **helpdesk of 8** member technicians to address the computing and network issues.
- Tie-up with leading assessment skill companies like **TCS**, **Sify and Merittrac** to conduct their authorized online tests.
- Internet Accessibility: laboratories, class rooms, library, department,

administrative area & seminar/AV halls.

- Wi-Fi Availability: Classrooms, laboratories, department offices, hostels and library are connected through 802.11 a/b/g/n protocol
- **IT Security Model**: Secured IT infrastructure through sophos XG firewall to prevent unauthorized access with user privileges. Three-way Wi-Fi protection via IP restriction, MAC-binding & WPA/WPA2 password encryption.

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

4.3.2 Student - Computer ratio			
Response: 205:92			
File Description	Document		
Any additional information	View Document		

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)			
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		
The 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: 18.04

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)

2018-19	2017-18	2016-17	2015-16	2014-15
198.84	149.94	142.30	128.90	101.36

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 individual personnel's for maintaining the infrastructure by way of building maintenance, transport, furniture and generator operator in case of power shutdowns. Separate complaint registers are maintained for various services like electrical, plumbing, housekeeping etc. Maintenance technician of the college, reports regularly about the breakage of instruments and devices to the higher authority.

The maintenance committee is headed by the Office Superintendent, who in turn monitors the work of the supervisor at the next level. The supervisor is accountable to the office superintendent and functions as the coordinator who organizes the workforce, maintaining duty files containing details about their individual floor - wise responsibilities, timings, leave etc. The maintenance officer conducts periodic checks to ensure the efficiency / working condition of the infrastructure.

Adequate in - house staff are employed to maintain hygiene, cleanliness and infrastructure on the campus so as to provide a congenial learning environment. classrooms, staffrooms, seminar halls and laboratories, etc are cleaned and maintained regularly by house keeping and non - teaching staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. The green cover of the campus is maintained by a gardener.

Organization chart for maintenance of physical facilities

Optimum working condition of all properties/ equipment on the campus is ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of Generator, Elevator, Air Conditioners, CCTV cameras and Water purifiers. Apart from contract workers, the college has trained in - house electricians and plumbers.

Lab assistants under the supervision of the system administrator maintain the efficiency of the college computers and accessories.

Parking facility is well organized. It is efficiently maintained by security under the control of security officer.

The campus maintenance is monitored through surveillance cameras. Proper inspection is done and verification of stock takes place at the end of each year.

Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the administrative office. The requirements are collectively processed in every semester break so as to keep things ready for the new semester.

Pest control of library books and records is done every year by the maintenance department as well as the general campus.

Estate office manager and his team are involved in the maintenance of infrastructure facilities. This team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing and house-keeping.

The non-teaching staff are also trained in maintenance of laboratory and computer equipment.

The Housekeeping office workers look after the maintenance of rest rooms, approach roads and neatness of the entire premises. Housekeeping services are regularly supervised.

The mechanism for maintenance in the institution is illustrated in the following figure.


A) Electrical Maintenance of Generator, UPS, Batteries

The electrical maintenance team monitors the Generator, UPS, Batteries, and enter the condition/status of equipment in Log book.

In case of major fault, the contractors are called for the service/replacement (belonging to equipment). The process is done based as per centralized procedure.

B) For Computer Laboratories (Utilization and Maintenance)

- Students and faculty members are provided separate login credentials to access the intranet and internet. Access to internet is provided in the lab even after college working hours. Apart from the regular lab classes, students are offered with programming languages by various value added courses which are conducted in the lab.
- Preventive maintenance and breakdown maintenance procedure is followed so as to ensure maximum availability of the systems in the lab. Installation of antivirus and firewall ensures that the software and system is secured. A daily status check on the hardware and software condition of the machines is undertaken and the same is noted in a register. This ensures that the problem is

identified and rectified at an early stage itself.

- Breakdown maintenance wherein the system fails due to SMPS problem or boot failure is recorded in a register. If the problem is minor, the technical support staff of the lab rectify it. For major failures, support from vendor is taken.
- Periodic maintenance is done by regular cleaning of the lab spaces, software updates and antivirus updates.
- The stock in the laboratories were verified for the available equipment and discarded equipment, by a meticulous stock verification process by faculty team from other department.

C) Maintenance of Electrical and Electronic Equipment

- Regular check up of equipment is carried out at the end of every semester.
- Breakdown register is maintained in the laboratories.
- As per the requirement minor repairs are carried out by the lab assistant or faculty member.
- Maintenance of computers is taken care of by computer maintenance centre.
- Major repairs are outsourced by following the procedure of the institute.
- The faculty trainer kits are serviced- by service engineers of specified companies. The measuring instruments are calibrated regularly by standard companies.
- Stock verification is done at the end of every year by the staff members from other departments and the report is submitted to the Principal.

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

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: 57.85

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

2018-19	2017-18	2016-17	2015-16	2014-15
1083	1338	1331	1335	1344

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

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

File Description		Docur	nent	
	I	1	1	·
303	157	140	131	100
2018-19	2017-18	2016-17	2015-16	2014-15

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes -

Response: 61.17

 2. Career counselling 3. Soft skill development 4. Remedial coaching 5. Language lab 6. Bridge courses 7. Yoga and meditation 8. Personal Counselling 	
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: 76.49

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

2018-19	2017-18	2016-17	2015-16	2014-15
1755	655	1212	1031	750

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<u>View Document</u>
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: 30.72

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

2018-19	2017-18	2016-17		2015-16	2014-15
788	721	710		610	560
File Description		Docun	nent		
Details of the students benifitted by VET					
Details of the studer	nts benifitted by VET		View I	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	<u>View Document</u>
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: 84.18

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

2018-19	2017-18	2016-17	2015-16	2014-15
524	534	527	530	471

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: 4.7

5.2.2.1 Number of outgoing students progressing to higher education

Response: 28

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document
Any additional information	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: 74.85

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

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

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

2018-19	2017-18	2016-17	2015-16	2014-15
24	15	17	13	15

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: 63

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

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

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	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:

Dr.NGPIT provides a platform for the active participation of the students in the various academic &other administrative bodies / committees. The main purpose of this student council is to ensure harmony across an ample, vibrant, and continuous range of campus events and activities during the academic year. The council ensures involvement and engagement of all members of the Institute and its respective stakeholder groups. This council helps the students to develop their leadership and management skills.

Every academic year, the head of the institution along with head of the department selects the student nominee based on academic performance for governing the curricular activities of the department / institution. Dr.NGPIT has constituted an active student council comprising of Chairman, Vice Chairman, Secretary, Joint Secretary, Treasurer and office bearers members. The members of the student council along with senior faculty members are involving themselves for the planning, monitoring and execution of institutional level events such as Annual day, HENOSIS (National Technical Symposium), TechFest (An Interdepartmental Cultural Extravaganza), Sports day, Aikyam (INDUSTUDENT CONFLUENCE), Career Day, Graduation Day, Alumni interactions and Alumni lecture series, students project expo, Spectronic (School Level Science Technova), hostel day, and various technical and non-technical club

activities viz. NSS, RRC, YRC, Yoga, rotaract club, Environment Awareness club, Renewable energy club, Robotics club, oracle club, Women's Development cell, Music and Dramatic club, Tamil mandram etc. As prescribed by the regulatory bodies like UGC, AICTE, Anna University, NBA, NAAC, the institute has constituted the students representatives in the following committees like

- Anti-Ragging committee
- Grievance redressal committee
- IQAC
- Library co-ordinating committee
- IIPC
- MHRD Institution Innovation council
- Placement & training cell
- Department Advisory Board
- Sports committee
- Cultural committee
- Magazine committee
- Discipline committee
- Hostel and canteen committee
- Class committee

Each department has students' representatives for the effective functioning of various activities like Special Lectures by experts, Seminars, Workshops, Symposium, National Level Conference and Intracollegiate meet organized by the association, professional societies and chapters.

Members List:

Student Council Office Bearers

1	Convener	Dr.K.Porkumaran / Principal
2	Faculty In-Charge	Mr.John Amose AP / BME
3	President	Mathupriya M / IV EEE
4	Secretary	Haritha V / IV EEE
5	Joint Secretary	Josiah Felipe Daniel / III CSE
6	Honorary Secretary	Arun Raj V / II MBA A

Following are the roles and responsibilities of the Students association and Students council.

Role of the Students association and Students council:

1. To officially represent all the students in the College.

2. To identify and help solve problems encountered by students in the College.

3. To communicate its opinion to the college administration on any subject concerning to the students and on which the council wishes to be consulted.

4. To promote and encourage the involvement of students in organizing co-curricular, extra-curricular and extension activities.

Responsibilities of the Students association and Students council:

1. To promote the interests of students among the college administration, staff and parents.

2. To inform students about any subject of concerns.

3. To consult students on any issue of importance.

4. To organize financial campaigns for college and charitable activities.

5. To organize educational and recreational activities for students.

6. To participate in developing the college educational projects and to promote among the students.

7. To organize an activity to recognize the efforts of students involved in various college activities.

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: 34.8

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

2018-19	2017-18	2016-17	2015-16	2014-15
27	27	22	09	15

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:

Dr.NGPIT Alumni Association (Sl.no.182/2017) was inaugurated in the year 2011 and is registered as Society in the year 2017. The Alumni Association consists of President, Vice President, Secretary, Joint Secretary, Treasurer and Office Bearers.

The main objective of Alumni Association is,

1. To promote and foster mutually beneficial interaction among the alumni and with their juniors.

2. To encourage the formation of Chapters as a means to increase participation of Alumni.

3. To educate the students about the rewards and responsibilities of the life long relationship with the College.

4. To provide the discussion to establish a link between the alumni, staff, and students of the Institute.

5. To guide and help the outgoing batch of students of Dr. N.G.P. IT regarding the professional placements and higher studies.

6. To guide and assist Alumni who have recently completed their courses of study at the Dr. N.G.P. IT to keep them engaged in productive pursuits useful to the society.

7. To provide a common platform for all alumni students to meet regularly and exchange their views regarding professional activities.

Financial Contribution:

The alumni association supports the activities by extending financial support to the students as well as the Institution. From the contribution of alumni, a significant amount of money was spent for paying fees to the economically poor students, purchase of laboratory equipments, conducting alumni lecture series and establishing alumni chapters at different areas like Chennai, Bangalore and Cochin. Further, the alumni association supports the conduct of Cricket and hockey tournament periodically for the benefit of the students. The awards for these events are sponsored by alumni.

Non-Financial Contribution:

It also serves as a forum for the alumni for exchange of ideas on academic, cultural and social issues of the day through the alumni lecture series being conducted by various departments at regular intervals. **173 interactions** were held in various departments with their alumni to foster academic, industrial and cultural issues thus resulted the conduct of curricular and co-curricular activities.

Alumni also contributes to extracurricular activities like sports and employability opportunities. Frequent Alumni Lectures are arranged by respective department for the benefit of students and the alumni extend their help for current career opportunities, Placement and industrial training required at the engineering fields. The alumni support the institution and contribute to its institutional, academic and infrastructural development.

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)		
Response: ? 5 Lakhs		
File Description Document		
Any additional information View Document		
Alumni association audited statements <u>View Document</u>		

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

Response: 174

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

2018-19	2017-18	2016-17	2015-16	2014-15
4	5	4	1	2

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

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:

INSTITUTE VISION:

To empower the students to succeed in a changing world to become productive engineers and responsible citizens.

INSTITUTE MISSION:

The stated vision of the Institution will be achieved by:

MI1: Producing graduates with sound technical knowledge and skills in diverse Engineering disciplines

MI2: Adopting innovative teaching and experiential learning practices by competent faculty

MI3: Enhancing knowledge and skills in cutting edge technologies through alliances with industry and research organizations

MI4: Creating conducive learning environment with state-of-the-art infrastructure and laboratories

MI5: Inculcating ethical standards among students, both societal and personal through outreach programs.

The Institute vision and mission statements reflect effective leadership established through its governance setup and defines the Institution's distinctive characteristics. Dr.N.G.P.IT through IQAC ensures quality teaching-learning process, research, outreach services and education for technical self-sufficiency. It is dedicated to nurture a culture of continuous quality improvement and optimum utilization of resources to achieve academic excellence. The Institute's efforts in achieving its vision are reflected through various arrangements to co-ordinate the academic and administrative planning and implementation. The formaulation process is illustrated here.



NATURE OF GOVERNANCE:

The top management executes its responsibilities by entrusting the principal and academic heads, the shared responsibility in implementing policies, nurturing stakeholder relationship, faculty recruitment to suit designated posts, improving infrastructural facilities, welfare schemes, new courses etc., to satisfy the design and implementation of its quality policy.

The Principal in consultation with the management shoulders the responsibility of ensuring that the right ambience is created for intellectual pursuits of students and faculty, communication with regulatory bodies, facilitation of research activities, synergy with stakeholders, encourage team spirit and achieve academic goals. The departments, committees, councils and clubs execute the responsibilities vested in them.

The HoDs along with faculty members takes the overall responsibility of the functioning of the department. The function happens through subject mentors, subject co-ordinators, class advisors and tutors to provide academic support, guidance, counsel, monitor attendance and communicate student progress to parents. Faculty takes responsibilities in effective curricular transaction and holistic development of the students.

PERSPECTIVE PLANS:

• Enhancing the quality of Teaching – Learning

- Promoting of Research among staff and students
- Improving Entrepreneurship Development and Industry-Institute- Interaction
- Engaging extension and outreach activities
- Improving Quality Assurance and sustainability

PARTICIPATION OF THE TEACHERS IN THE DECISION MAKING BODIES:

- Principal leads the academic and administrative bodies for effective implementation.
- HoDs along with faculty make the decision for various activities of the department.
- Faculty members and administrative team are involved in the process of decision making in executing their duties, responsibilities and rights.
- Faculty members are nominated as members of various committees such as GC, AC, DAB, PAC, IQAC, IIPC, Training and placement Cell, ADC, CFD, Budget committee, admission committee, Discipline Committee, etc., so that they can get involved in decision making.

Faculty members actively take part in various functions like Annual Day, Sports Day, Graduation Day etc., as part of organizing committee and are encouraged to give ideas pertaining to the growth and betterment of the institution.

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 practices a well decentralized pattern of working and participative management in keeping with its policy of decentralized governance. The Principal is assisted by the following faculty members in carrying out the administration of the institution.

The Institute disburses responsibilities from top-down by decentralizing duties and responsibilities for quick decision making. Faculty members are given opportunities with entrusted responsibilities for effective functioning of the academic system. At the student level, student council entrust leadership qualities by encouraging them to participate in all academic and administrative responsibilities.

The institute provides operational autonomy to the departments in academic pursuits and decision making. HoDs have the autonomy to budget, plan and execute activities at the department level. The faculty and students have the freedom for democratic participation in expressing requirement for additional laboratory equipments, library books, enhanced infrastructural facilities, facility to work beyond college hours, curricular enrichment etc. with the appropriate approval from management.

CASE STUDY: Preparation of Academic Calendar aligned with the Academic Schedule of Anna University - semester wise pattern

The institute functions with the method of decentralized governance system. The heads of the department have been bestowed with the authority of deciding the activities and delegating the responsibilities to the staff members.

This ensures a systemized, all inclusive institution level academic calendar framed in line with Anna University schedule. At the beginning of every semester, an academic calendar is prepared by the Principal keeping in mind the parameters of institutional excellence. This is further deliberated in the presence of IQAC, ADC, Directors, HoDs and the members of student council. The key parameters in institutional academic calendar comprises:

- Administrative meeting like GC, AC, DAB, PAC, Department level HoDs meetings, IIPC board meetings, Research council meetings etc.
- Reopening dates, Assessment schedule, University examinations, Information about holidays, closing dates etc.
- Internal assessment dates, Question paper preparation, Result analysis, Result intimation to parents, Project reviews etc.
- Fresher's meet, Induction program, Bridge course, Class committee meeting, PTA etc.
- Professional society chapters, Club and association activities, Industry and field visits, FDPs etc.
- Placement readiness programs, Value added certification programs, Career day, Industry connect events etc.
- Institutional annual events like Annual day, Sports day, Techfest, Spectronics, AIKYAM etc.
- Academic Audit, Stock verification etc.



This system oriented broad based schedule is adhered to in accordance with the affiliating university. Once approved, the finalized institutional academic calendar is circulated to all the departments.

The department academic calendar is planned and prepared inline with the institutional academic calendar with the participation of the HoD, Faculty and Student representatives.

The department level activities pertaining to association inauguration, workshops, conferences, seminars, guest lectures, field trips, FDPs, Alumni lecture series, Industry expert visits, virtual industry tours, Industry visits etc. are envisaged in the department level calendar.

In the advent of inability to conform to specific dates, subsequent meetings are held at department level and the deviation report is forwarded to the Principal for further proceedings.

This highlights the features of decentralization making the entire process participatory and not

arbitrary.

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:

Yes, the Institute has prepared a perspective/strategic plan to fulfill the academic and research development, extra-curricular activities, sports, culture, infrastructural facilities of the Institute. The Institute **perspective plans** is available in the link (http://www.drngpit.ac.in/iqac.php)

Activity: Improving Quality Assurance and Sustainability

The objective of quality assurance and sustainability are:-

- To frame the Quality Policy for the academics and research
- To identify the best practices in the institution
- To formulate various committees for effective functioning
- To conduct Periodic audits for academics and administration

The need of framing the quality policy for academics and research was perceived well by the institution. The IQAC has framed the ADC guidelines, project guidelines and research guidelines for improving examination process, research projects and publications.

- The ADC guidelines address the transparent mechanism of continuous internal assessment & evaluation. The outcome of implementing this system apprises CIE which is robust and efficient and the grievances are addressed effectively.
- The project guidelines addresses the quality projects in industries carried out by the students are improved from 21 in 2014 to 90 in 2019 and the number of internship is improved from 685 in 2014 to 1676 in 2019.
- The research guidelines regulates and monitors the activities pertaining to research, patents.

Outcomes:

- Publications in Scopus indexed journals are improved from 23 in 2014 to 81 in 2019.
- Number of faculty with PhD qualification is 14 in 2014 improved to 48 in 2019
- Number of research projects funded by Government and non-government recognized bodies are

improved to 378 projects during last five years.

The outcome based education is one of the best practices implemented in the institution since 2017 which resulted in innovative teaching methods, usage of modern pedagogy tools and effective utilization of ICT thereby improving the knowledge level of students.

The need of formulating various committees and clubs is to ensure the quality. The committees such as GC, AC, IQAC, DAB, ADC and clubs such as IIC, EAC, REC, Idea and Innovation Club, etc., are formulated to carry out the activities ensuring the quality.

The need of conducting periodic audits for academics and administration is to fulfill the gaps towards quality assurance and sustainability. The institution formulated auditing committees to carry out inter department and intra audits and invite external experts for each year. The non conformities identified and corrective actions are carried out by the faculty.

With the effective implementation towards quality policies, the 5 programmes (BME, CSE, ECE, EEE and Mechanical) in the institution have been accredited by **National Board of Accreditation (NBA)**. In addition to this, the institute has achieved the following awards and achievements.

- Education National Excellence Award 2016 Best Upcoming Innovative Engineering College" ASSOCHAM
- Bharatiya Vidya Bhavan National Award for Best Engineering College Principal
- IEEE Outstanding Branch Counselor Award 2016, IEEE USA
- ISTE-Best Students Chapter Award 2018, 2017 & 2015
- Platinum Ranking AICTE CII Survey 2018
- Best Infrastructure Institute 2017 Award Dr. Kalam Trust

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	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 Institution ensures effective implementation of governance, administrative functions, policy guidelines, service rules for employment at all functional level. The **Governing Council** takes the responsibility of monitoring the implementation of activities in the institutional strategic plan.



Organizational Structure – The Administrative Setup

- Governing Council take policy decisions regarding the academic and administrative affairs of the institution. Also it is responsible for leading the development and execution of the institution's long term strategy, managing the overall operations and resources of the institution.
- Principal is the Chairperson and suggests recommendations to the management regarding student and staff progression. He takes utmost care for the smooth functioning of the academic system and enhances the standards of education by providing an outstanding, creative and participative learning environment in the institution.
- HoDs are responsible for executing the Academic Plan of the department. They take decisions concerning department affairs.
- Faculty takes up positions viz. Academic Coordinators, Course Mentors, Course Coordinators, Class advisors and Tutors. They are responsible for effective curricular transaction and address the grievances of students, if any.
- Administration team takes decisions regarding the entire administrative affairs of the institution.
- Placement officer's duty is to conduct placement readiness program that meets the requirements of the recruiters and arrange on and off campus placement drives.
- Librarian is responsible for acquisition and provision of library resources and ensures it to meet the needs of all its users.

• Physical Director is to motivate and coach the students to take part in national, state level sports activities and competitions. Organize and conduct inter and intra collegiate sports events

Service Rules, Procedures, Recruitment and Promotional Policies

- Procedures, recruitment, promotional policies are framed as per the rules and regulations of AICTE and the Anna University.
- Service rules are approved by the Governing council and are available in the college website. Service register for all faculty is maintained in the institution.
- Career advancement scheme is implemented in accordance with AICTE rules.
- Faculty members, technical and non technical staff are appointed as per norms based on the institute HR policy.

Necessary ratification is obtained from the 14th Governing Council dated 17.09.2016.

The **Grievance redressal system** is implemented to sort out the student grievances. This system attempts to address genuine problems and grievances irrespective of the nature of the problem.

- A suggestion box is kept in the foyer to receive grievances and suggestions. The box is opened every Monday and the issues are sorted promptly based on the gravity.
- The students can also approach the grievance redressal cell to voice their grievances regarding academic and non academic matters. The cell redresses the grievances at individual, class level and grievances of common interest.
- Students can use the online grievance redressal linked on the website to express constructive suggestions and grievances.

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

Planning and Development
 Administration
 Finance and Accounts
 Student Admission and Support
 Examination

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	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 institute has implemented many process and activities initiated by several bodies, cells and committees. Every committee will be assigned with specific tasks pertaining to the requirements of processes and activities. The conduct of functions fosters relationship and nurture unity. There are different cells, committees and clubs in the Institute that work on the principle of equal distribution of duties, hence increasing the efficiency and competency of the stakeholders. Clubs and committees are formed with the Principal as the President who ensures their effective functioning. Meetings are held by the committees periodically and the minutes of meetings are recorded. All the committees submit their report to the IQAC and principal and corrective actions were discussed in IQAC meeting.

S.No	S.No Statutory Body/Committee		Mandated by		Meetings per year
1.	Governing Council (GC)		UGC, AICTE		Once
2.	2. Internal Quality Assurance Cell (IQAC)		NAAC		Four
3.	Students Council		Anna University		Twice
4.	Anti-Ragging Committee		Anna University		On need based
5.	Grievance Redressal Committee		Anna University		On need based
6.	Gender Equity and Women Development	nt Cell	AICTE,UGC		On need based
7.	Discipline Committee		Anna University		On need based
Committees and Clubs					
Academic Development Cell		NBA Coordinatin	ig Committee Yoga Club		ga Club
Center	for Faculty Development	NAAC Coordina	ating Committee Youth P		uth Red Cross
Time Table Coordinating Committee		Parents Teachers Association Rol		ootics Club	
Centre for Teaching & Learning		Alumni Associati	lumni Association Op		en Source Club
Industry Institute Partnership Cell		Centre of E-Learning Ren		Rer	newable Energy Club
Result Analysis Committee		Library Coordinating Committee Co		nsumer Club	
Academic Auditing Cell		Center for Skill Development Bus		siness Line Club	
Centre for Continuing Education		Music and Dramatic Club We		Wel	bsite Committee
Center	s of Excellence	UAV and Syscom Club Jo		Jou	mal Club
Centre	for Research / IPR	Training and Placement Cell St		Stat	ffClub
MHRI	Institution Innovation Council	Exam Cell Ph		Pho	tography Club
Career Guidance & Higher Education Cell		Environmental awareness club De		Defe	nse club
Entrepreneurship Development Cell		Multi linguistic Center RF		RRC	;
Tamil Mandram		NSS BI		Bloo	d Donors Club
Literary & Debating club		Math club	th club He		thcare club
Idea & Innovation Club		UYIR Club	Road Safety Clu		l Safety Club
Rotract club		Multimedia club		Sma	rt manufacturing club

Statutory Bodies and Committees in the Institution

The implementation of major resolutions made in T & P cell is given below.

Statutory B	ody/Major resolution made	
Committee/Clubs		
Training & Placement Cell	In 12th meeting dated on 07.02.2019 students requested the cell to placement training and skill based training on regular basis.	orgai
	In 8th meeting dated on 29.12.2017	
	faculty insisted that the employer needs more core training through exper	ts.
	student requested to provide training on resume preparations and group d	liscus
	alumni suggested to use online portals for ease of assessment and follow	ups.

Activity: T&P Cell - Training and Placement Cell

The cell comprises of a placement officer, department coordinator and internal placement trainers, as a team takes care of training and placement activities. Based on the feedback from stakeholders, the T&P cell of the institute organizes various training sessions such as aptitude, logical and verbal reasoning on

regular basis. Industry specific core training is also provided by the concern department faculty members. The institute has organized events like career day, AIKYAM for students to understand the industrial needs.

The process carried out by T&P cell is illustrated below:



The training phases are categorized into external and internal mode. In external mode of training, the cell invites external resource persons to train the students during their vacation holidays. During this training, the basic courses on cognitive and programming skills are carried out. In continuation with this, advanced training sessions to enhance the skills are scheduled weekly two hours with the help of in-house employed resources. Subject experts are identified from the concern department for providing core technical training regularly. Special sessions on resume preparation, group discussion, mock interviews are conducted to face interviews with confidence. Students are regularly assessed and monitored using online portal to improve their ability in succeeding in interviews. Due to these activities, the placement in terms of percentage, salary package, number of job offers have been improved.

Activities carried out by T&P cell during the academic year 2018-2019:

Total training hours: 814

No of on-campus drives: 76			
No of off-campus drives: 14			
No of Core companies visited: 41			
No of IT companies visited: 49			
No of job offers: 625			
Highest Salary Package: Rs. 10 Lakh Per Annum	Tighest Salary Package: Rs. 10 Lakh Per Annum		
No of companies with more than 3 Lakh PA salary	package: 21		
Placement Percentage : 89.7%			
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:

The institute takes care of the human resource by providing various welfare schemes. Some of the practices in effective human resource management includes norm based recruitment, insurance benefits, Medical leave, sabbatical leave, On-Duty, accidental insurance etc., Staff members are provided with medical concessions at KMCH and fee concessions for their wards in the NGP group of institutions.

The Institute is implementing various schemes for the welfare of the teaching and non teaching staff members. The staff members are encouraged and given financial assistance to pursue higher education, to attend FDP in their field of interest, industry visits and trainings to attend and present research papers in conferences, to publish research papers in indexed journals, to organize seminar, guest lecture, FDP for faculty members. Orientation programs are conducted for the newly recruited faculty members once in a year to enhance their teaching ability. The faculty members are encouraged to attend the seminars conferences as well as refresher courses organized by university and AICTE. The faculty members are given on duty to participate/act as a resource person in the outside Institute. The Institute provides the following welfare scheme towards motivating and retaining the employees such as EPF, insurance, Vacation for teaching and non teaching staff members, casual leave, medical leave, Free transportation for the non teaching staff members. The faculty members are appreciated with promotions and rewards benefits to Faculty. Some of the other benefits are:

- All the staff members of Dr. N.G.P. IT are entitled to avail free ambulance service in case of emergency
- The staff members are covered under medical insurance and accidental insurance.
- Non teaching staff members are eligible to avail free transport facilities of Dr NGPIT.
- Staff members staying in institute hostels provided with free food and accommodation with free of cost.
- The institute supports the teaching staff to enhance professional development by permitting study leave to faculty for carrying out research projects.
- Faculty members are encouraged to associate with State, National and International professional bodies.
- Concession provided in the group institutions.
- Maternity Leave/Medical Leave/Casual Leave/Compensatory Off facility
- Day care facility for wards of staffs at NGP group

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: 61.88

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

2018-19	2017-18	2016-17	2015-16	2014-15
152	108	95	9	11

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: 38.2

6.3.3.1 Total n Institution for t	umber of professiona teaching and non teac	al development / ac ching staff year-wi	dministr ise durir	ative training pr og the last five y	ograms organized by t ears	the
2018-19	2017-18	2016-17		2015-16	2014-15	
19	11	20		12	5	
File DescriptionDocument						
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).		View Document				
Reports of Academic Staff College or similar centers		View 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: 98.63

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

2018-19	2017-18	2016-17	2015-16	2014-15
161	116	178	94	84

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers).	View Document
IQAC report summary	View 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 institute has structured mechanism for the performance evaluation system for teaching and non-teaching staff and is carried out regularly at the end of every academic year.

Appraisal Mechanism:

The faculty need to self assess and will write the scores earned for the following criteria's in the Self appraisal form (1000 Marks) with the following key parameters.

- Academic Performance (210 Marks)
- Service to College (150 Marks)
- Professional Development (280 Marks)
- Research and Development Activities (200 Marks)
- Industry Institute Collaboration (160 Marks)

The faculty will submit the self appraisal form to the Head of the Department with all the relevant supporting materials/documents

Head of the Department will award scores for all the criteria and will submit to the Head of the Institute with all the recommendations.

Head of the Institute will assess the scores awarded for the criteria and submit to the management with all the recommendations.

The Strength and Weakness of the faculty member in all the criteria are analyzed by the Head of the Department and the Head of the Institute and the same will be conveyed to the faculty member for further improvements.

HoD observes the preparedness and involvement of the faculty in multiple activities throughout the year. A feedback taken from the students gives further inputs regarding the effectiveness of the teaching learning methodologies used. Heads will administer the feedback questionnaire to students for academic programmes and any other training programme of similar type through the learning management system.

The self appraisal scores with the recommendations of the Head of the Department and the Head of the Institute will be considered by the management for career advancements.

Mechanism:



6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

M/s Dr NGP Institute of Technology is run by M/s Kovai Medical Centre Research and Educational Trust.

Internal Audit:

Finance Controller is responsible for Internal Audit and Internal Control. The scope of internal audit programme comprising of Vouching, Monitoring the day to day operation. Confirmation balance of Assets and Liabilities, Statutory payment like PF, ESI, TDS and other local taxes and Prompt payment of Bank repayable. Review with Institutional accounts team for the observation of the audit quires. Ensure the audit quires are properly carried out.

External Audit :

Half yearly and Yearly Books of Accounts submitted to the Statutory Auditor for carry out the External Audit. They will check Bank and Cash Vouchers, Purchase orders with Bills, Bank statements and other statutory related documents. After analyzing the books of accounts they will submit the queries to Finance controller. After the explanation from the institution financial department, the Financial statements will be

prepared. The financial statements of the Institute provide a realistic statement through the audit report that the books of accounts reflect a true and fair view of the operational activities and the financial position of the Institute for the relevant financial year.

Overview of the Finance , Accounts & Audit

Internal Audit	: We have a month end book closing mechanism.
Auditors	: CA with 40 years of experience
Qualification & Experience experience.	: Graduate in B Com, M Com, MBA with more than 30 years of
Accounting Standard	: Follow with Indian Accounting Standards
Systems	: Tally ERP SERVER – Version 6.5.4
Book Keeping	: Double entry Book keeping

- - Monitor Day to Day accounting activities.
 - Monitor legal requirements.
 - Operate appropriate systems of internal controls.
 - Develop, publish and follow the accounting standards.
 - Book closing. Trail balance preparations
 - Monthly Audit carried out by Finance Controller.
 - Audit Observations discussed with Institution accounts team.
 - Clarification / Rectification from Institution accounts team carried out every month.

External audit

: Checking of all the expenses / Vouchers Bills accounted in a

respective months.

- Book closing. Trail balance, Finance reports Preparations, Submitted to Auditors.
- Audit carry out by External auditors.
- Audit Observations carried from accounts team.
- Book closing.
- Books with Financial report Submitted to Auditors
- Every Quarterly and Half yearly Auditors will come and securitize the vouchers
- Clarification / Rectification from Accounts team.
- Final Book closing Trail Balance Financial Reports preparation.
- Discussion with Management
- Financials Approved by Trustees
- Submitted to Income tax department.
- Financial year book closing.

The institute ensures that information provided in the financial statements are of high quality and are acceptable by the Trustees, Chartered Accountants and the Government bodies.

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: 1231.72

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

2018-19	2017-18	2016-17	2015-16	2014-15
20.43	25.05	20.39	22.54	24.38

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:

Funds mobilization from various resources is detailed as below.

- Tuition fees
- Grants from Government and Non Government bodies
- Interest on Fixed Deposit
- Term loan from Banks

Utilization of resources

- Funds received mainly from Student Tuition fees are spent on payment of salary of teaching, non-teaching staff, recurring and non recurring expenses of the Institution.
- Grants received from Government and Non Government bodies are mainly earmarked for student

Skill and Development activities. Trustees and Finance Controller of the Institution monitor the utilization of received grants.

- Adequate funds are allocated for effective teaching-learning practices that include Research programs, Orientation Programs, Workshops, training programs, Refresher Courses and National and International seminars that ensure the quality of education.
- Budget is utilized to meet day to day Operational, Administrative expenses, Capital, Maintenance of fixed assets, Green initiatives and Energy saving equipment.
- Funds are allotted and utilized every year for augmentation of library facilities to enhance higher learning practices of students.
- Adequate funds are utilized for development and maintenance of infrastructure of the Institution.
- Funds are allocated for social service activities as part of social responsibilities through NSS, YRC, Red Ribbon Club. SAC club and other club activities.
 - Main motto of resource mobilization and optimal utilization of resources is to put Dr NGP Institute on bench mark in tune with quality teaching and unique growth of students.

Bank Funding

The essential assets for the Institution are availed through Term Ioan from Banks. Those Funds are used in Building, Electrical, Plumbing, Furniture and Fittings and Vehicle, Which are essential to the Institution.

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 IQAC is constituted to monitor the internal quality aspects pertaining to academic, curricular and cocurricular activities for the welfare of the students within the existing academic and administrative systems.

Practices institutionalized as a result of IQAC Initiatives:

1. Establishment of Academic Development Cell to ensure effective curriculum transaction and systematic assessment

The ADC is established to ensure preparation and implementation of academic calendar related to the

academic aspects such as instructional planning and delivery, assessment and evaluation of student learning for theory, practical and project and periodical academic audits.

Academic Calendar

An institution level academic calendar is prepared in line with Anna University. Based on this, department academic calendar is prepared keeping the following key parameters as inputs.

Time Plan for

- Curriculum delivery
- Continuous Assessment and Evaluation
- Enrichment Programs
- Guest lectures, workshops, seminars and Conferences.

Entry Level Assessment

- Diagnostic tests are conducted to assess the learner's knowledge in English, Mathematics and Basic Sciences
- Remedial courses are offered based on necessity.

Orientation to Core Disciplines

• Prerequisite courses to core subjects in Semester III extended to lateral entry students.

Course Plan

- Course plan is prepared by faculty covering the topics, schedules, reference materials, teaching aids and methodologies
- Uniformity in content coverage and assessment is ensured
- Lecture notes on important topics made available on the web portal for students' reference
- Assistive materials for examination preparation made available.

Curriculum Enrichment

- E-learning centre is established to provide synergetic massive learning exchange platform
- Invited talks by eminent professionals from industry and academia.
- Case studies and industry visits
- Value additions through industry powered laboratories.

Academic Audits

- Academic audits by the Academic Auditing Cell are conducted to ensure effective functioning of the academic system
- Periodic Tutor-ward meetings, Class Committee meetings and End Semester review meetings are held to assess students' academic progress.

The process of auditing is illustrated in the following figure.



Feedback

Regular feedback is obtained from stakeholders for the following:

- Curriculum delivery
- Enrichment programs
- University question papers
- Invited talks, Seminars, Workshops and Conferences

2. Establishment of IPR cell:

The IPR cell has been established in the year 2016 with the objective of converting the lab to land projects into patent.

- Organizes various seminars and FDP on topics related to patent filing, patent searching
- Innovative projects are presented in the department level and top 3 projects are shortlisted and forwarded to IPR scrutiny committee
- IPR scrutiny committees reviews and performs patent search for viability
- Recommends the patentable projects to management for sponsoring the application fees and consulting fees
- Legal terms viz. patent claim, 3D drawing, specifications are incorporated into the application for patent filing

Outcomes:

- 17 patents have been published by the faculty across various domains.
- MHRD Institution Innovation Council along with **Idea & Innovation club** organized **16 events** like project expo, Hackathon, submission of Proof of Concepts (PoC) to bring out innovative ideas
- 1 project shortlisted as finalist out of 30 innovative ideas submitted to SIH 2018
- Received 4 star ratings based on performance of the activities carried out for the year 2018-19.

File Description	Document
Any additional information	View 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:

Yes, the institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through the following mechanism governed by IQAC.

Examples for Reviews and Reforms in Teaching learning:

1. Periodical meetings for governance

IQAC initiated to formulate Programme Assessment Committee, Department Advisory Board and course mentor system which help to review the progress of course completion, effective teaching learning, attainment and assessment of learning outcomes, etc., Periodic meetings are conducted in which the committee members present their evaluations and plans for improvement. The committee reviews and provides feedback and suggestions.

Structure, Methodologies and Frequency of Meeting:

Committee	Structure	Frequency	
TWM	Class advisor, Tutors, Students	Once in a week	
CCM	Chairperson, Class advisor, Course handling faculty, student members	Thrice in a semester	
End Semester Review Meeting	Principal, HoD	Once in a semester	
Course Mentor Meeting	Course Mentor, Course Coordinator, Course handling faculty	Thrice in a semester	
PAC	HoD, Senior faculty, NAAC/NBA Coordinator, Department IQAC coordinator	Twice in a year	
DAB	Academic Experts, Industry Experts, Alumni, Parents, HoD, Senior faculty, NAAC/NBA Coordinator, Department IQAC coordinator, Students, Experts from other departments	Twice in a year	
AC	Management Representative, Principal, Director, HoDs	Twice in a year	
GC	Management, Industry representative, Academic Experts, University Nominee, Faculty representative	Once in a year	

Reforms:-

- Formulation of COs, POs/PSOs for implementation of OBE, assessment (formative and summative) and attainment for COs, POs/PSOs are carried out.
- Establishment of Centre for Teaching and Learning to facilitate teaching-learning related activities using modern pedagogy techniques and innovative practices.
- Strengthening of ICT facility by providing smart boards for each department, LCD projector and audio system for all class rooms towards strengthening teaching learning practices.
- Establishment of Centre of excellence for bridging the gap between industry and academia.
- Strengthening E-Learning facilities such as LMS, NPTEL, Swayam Prabha, Digital library etc,
- Organizing Skill development course such as VAC, Life Skill Course, Certification Course, VET to upgrade the skill set of the students thereby increasing their employability.
- Organizing Faculty empowerment programme to foster a dedicated and enthusiastic effort to implement effective teaching learning process.
- Arranging Factory visits towards knowledge upgradation on recent technology.

2. Feedback System

IQAC has framed a structured feedback mechanism for analyzing the effectiveness of the teaching learning process. The feedbacks are collected on the aspects such as Curriculum, Infrastructure Facilities and Faculty. In addition, feedbacks are also collected for certification courses, industrial visits and training programs.
Feedback on Teaching and Learning Process:

Feedbacks from students are obtained periodically by the Head of department in the course review meetings, TWM, CCM and end semester meetings, Course end survey, Graduate Exit Survey, Alumni Survey. Students feedback on teaching-learning process are collected, analyzed and presented to the department Heads. From the assessment of the feedback, suggestions for improvement if any, is carried out. The following feedback listed in the following table is obtained from students.

S. No.	Feedback Mechanism	Frequency of feedback collected	Composition	
1	Tutor ward meeting	Once in a week	15 to 20 students	
2	Class committee meeting	Thrice in a semester	 Student representatives comprising Day Scholar Hostler Slow Learner Advanced Learner Subject Handling Faculty Academic Coordinator Head of the Department 	
3	Course review meeting	Thrice in a semester (Before each Internal Assessment)	Head of the Department	
4	End semester review meeting	Once in a semester (One week before the end of the Semester)	Principal & Head of the Department	
5	Course end survey	Once in a semester	All students	

Action Taken and Impact Analysis:

Based on student feedback received

- in tutor ward meeting, Placement orientation & Career Day program has been organized for all the students to get the awareness on skill sets required for employability.
- in the class committee meeting, additional classes are provided for analytical courses to strengthen their learning ability.
- in course review meeting, special classes for theory and lab sessions are arranged for the completion of the syllabus portion before the internal assessment
- in end semester review, orientations regarding the university examination preparation and additional revision classes for the slow learners are organized. Based on which, students are able to solve the complex problems with more confidence
- in course end survey, usage of modern pedagogical tools like NPTEL, Virtual industry tour,

industry guest lectures, etc. has been increased.

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

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

Response: 31.6

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

2018-19	2017-18	2016-17	2015-16	2014-15
18	39	40	33	28

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

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:

The IQAC administers to develop a conscious, consistent system for improving the academic and administrative performance of the institution, integrating the various activities of the institution and institutionalize many good practices.

S.No	Initiative	Year	Outcome
1.	Formation of statutory cells	2015	Formation of ADC, CFD, Library coordinating
			committee
		2016	Formation of PAC, DAB
		2017	Formation of Budget committee
	Implementation of OBE	2017	Revision of vision and mission, formulation of
2.			PEOs and PSOs and COs for 5 U.G. programmes –
			BME, ECE, EEE, CSE, MECH
		2018	Revision of vision and mission, formulation of
			PEOs and PSOs and COs for 3 U.G. programmes –
	· · · · · · · · · · · · · · · · · · ·		IT, CIVIL, MBA & 4 P.G. programmes – M.E. –
			ED, PED, EST, CSE
3.	e-Governance	2015	Backbone Software - HR Module; Payroll
		2015	Learning Management System
		2016	NAD - Student's Certificate Verification
			docswallet - Digital Locker
		2019	DHi – Integrated automation software
4	Centre for Skill Development	2015	Every year Conducted 70 certification courses 3
г. 	centre for 5km Development	2010	VAC courses for each department 14 life skill
			courses and 21 VET.
5.	Establishment of Centre of Teaching a	and2018	Recording centre was created worth of Rs.13 Lakh
	Learning		and 224 lecture video by faculty are uploaded in
			social media
6	Formulation of Guidelines – Proje	ect,2015	Transparent and robust CIE process established
	ADC and Research		
			Evaluation pattern strengthened and quality lab to
			land projects evolved

			Institution h-index – 22
			416 Scopus indexed journals
			602 journal publications
			575 Conference publications
			49 Books and book chapters publications
7	Strengthening and increasing the clubs	2016	25 technical and non-technical clubs formulated and celebrating club day every year in which several activities are conducted showcasing the talent of the student
8	Establishment of GEC and WDC	2016	25 activities were conducted creating awareness on
9	Increase in Industry powered centr	e2017	Established 11 new industry powered centers
	through IIPC		through which various skill development courses
10	Professional societies and chapters	2016	15 professional societies and chapters were
10			formulated and activities towards professional
			development were carried out
11	IPR Cell	2017	17 patents filled
12	Funding research projects	2016	Research projects funded by Government and non- government recognized bodies are improved to
13	Feedback structure towards curriculum	2017	Curriculum gap identified and suggestions carried out for curriculum revision communicating to affiliating university
14	Cadre Ratio	2016	Sustainment of Cadre ratio as per AICTE norms and fulfillment of sanctioned post.
15	ICT facility	2018	Provided 10 smart boards. 93 LCD projectors and
			72 audio systems towards strengthening teaching learning practices.
16	Faculty enrichment programme	2016	Institution is providing financial support to participate in FDP/STTP outside state. 203 faculty members received worth of Rs.1.16 Lakhs have been benefitted.
17	IIT PALS, IIC	2018	Financial support for NPTEL certifications, membership in professional bodies and attending quality conferences. In PALS, 48 activities arranged for students and
			Organized 16 events like project expo, Hackathon, submission of Proof of Concepts (PoC) to bring out innovative ideas

			4 star ratings based on performance of the IIC Calendar Year 2018-19
18	Learning methodologies	2017	Experiential, participative and problem solving teaching learning methods were practiced and innovative methods were adopted by the faculty.
19	Facilities for disability	2015	Facilities created across all buildings
20	Allocation of Scholarships and Freeships	2015	Rs.44 Lakhs were spent on scholarships and freeships for 758 students.
21	Collaborations	2016	27 quality MoUs were signed for strong industry institute relationship.
22	Alumni Engagement	2016	Established 3 Alumni chapters
			Conducted 42 Alumni lecture series and Alumni meets in 2018-19
			Acts as recruiters
23	Green practices	2016	1Lakh KLD of STP plant recycles xx KLD
	STP		9 units of RWH
	RWH		33% of renewable energy generated through 110kWh solar plant installed.
	Solar		
	Replacement of LED		17% of annual lighting power requirement met by replacing 48% LED bulbs.
24	A&A Audit	2018	Annually A&A Audits and green audit are conducted.
25	Internet and bandwidth	2017	Improvement from 40mbps to 88mbps and installed 13 wifi hotspots.
26	Formation of student council	2016	Forum created for discussing their views and representing their needs to authorities.
27	Accreditation Status, Awards and Recognitions	12015	NBA – 5 programs
			AQAR – Annually
			NIRF – Annually
			ARIIA – Submissions
			College rankings (India Today) – Top 200
			ISTE-Best Students Chapter Award 2018, 2017 & 2015
			Platinum Ranking AICTE - CII Survey

			Bharatiya Vidya Bhavan National Award for Best Engineering College Principal
			IEEE Outstanding Branch Counselor Award 2016
			Education National Excellence Award 2016 - Best Upcoming Innovative Engineering College" - ASSOCHAM
28	Performance Appraisal System	2016	Reformed appraisal system for evaluating the performance of teaching and non-teaching staff.

File Description	Document
Any additional information	View Document

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: 68

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

2018-19	2017-18	2016-17	2015-16	2014-15
11	9	7	8	5

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:

The institute provides facilities to all the staff members and students towards promoting education that would be sensitive to the needs of the various sections of society with special emphasis on gender equity and gender sensitivity. It aims to prepare the student to be self-reliant, specialists in their chosen discipline, continuous learners, effective communicators, respectful of different cultures, socially responsible, aware of their social and civic responsibilities, sensitive to gender issues with zero tolerance towards sexual harassment, women safety and security, and environmental consciousness. Students of both the genders are given equal opportunities to grow and develop into able, responsible citizens of the future. The institute makes efforts to maintain gender balance among the staff members and students.

Gender Equity Initiatives

The institution established gender equity and women empowerment initiatives through Gender Equity Cell (GEC) and Women development cell (WDC). The cells have organized 68 such programs exclusively.

Gender Equity initiatives are grouped into four impact areas:

- Recruitment, promotion, and tenure;
- Professional and leadership development;
- Equal opportunity for administrative and leadership positions; and
- Recognition and increased visibility of the Institute's commitment to gender equity.

The major activities promoted by Gender equity cell are listed below:

- 1. Implicit bias workshops
- 2. Processes and pathways to advancement and promotion
- 3. Favourable salary administration
- 4. Professional and leadership development programs
- 5. Inclusive and open processes for appointments
- 6. Reporting system awareness
- 7. Success story promotion
- 8. Event promotion
- 9. Gender equity data
- 10. Equal opportunity in academic and administrative activities for staff and student members.

The institute has taken the following measures to enhance safety and security of all the inhabitants of the campus.

a) Safety and Security

- Round the clock security at all entrance and at all prominent locations across the campus.
- Institute premises covered under IP enabled advanced video surveillance system with 92 cameras.
- Secured environment for male and female students in the hostel premises.
- Fire safety trainings and other safety awareness training programs are organized for staff and student of both the gender. 225 fire extinguishers and fire hydrant systems are provided in prominent locations.
- Basic life support training programs are provided through healthcare club to students and staffs at regular intervals.
- Insulated mats are provided in electrical laboratories for safety from shocks.
- Ambulance facilities readily available in 24 hour service

Women development cell has been established at Dr.N.G.P. IT:

- To promote gender sensitivity and produce harmonious atmosphere, empowers and safeguards the rights of female members
- To create social awareness about the problems of women and in particular regarding gender discrimination.
- To develop the self-confidence of Women.

- To guide about Women Welfare Laws.
- To assert the importance of spiritual, economic, social, racial and gender equality.
- To highlight the importance of health and hygiene.
- To directs Women's role in the society.
- To develop multidisciplinary approach for the overall personality development.
- To organize seminars, workshops relating to women empowerment.
- To promote general well-being of female students, teaching and non-teaching women staff of the institution sexual harassment cell

b) Counselling and mentoring system:

The counseling system in the institution is a cyclic and continuous interaction with students to access their progress. The system effectively covers academic, psycho-social and career issues. A team comprising of faculty tutors, class advisors, head of departments, peer mentors, alumni, placement coordinators, professional counselors, industry mentors and placement counselors provide guidance and Mentoring for the students. Each department is provided with a separate counseling room for one to one interactions with students and staff members.

Close mentoring and monitoring of students is done and a healthy student-faculty relationship is maintained. **Dr.Karthikayani Murugan**, Clinical Psychology is appointed for Professional Counselling.

- Type of Mentoring : Academic, Professional / Career and Personal Guidance
- Number of Faculty Members : All Faculty Members
- Number of Students per Mentor : 15 20

The counseling and mentoring process followed in the institution is illustrated as below.



7.1.3 Alternate Energy initiatives such as:

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

Response: 23.41

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

Response: 211489

7.1.3.2 Total annual power requirement (in KWH)	
Response: 903263	
File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.4 Percentage of annual lighting power require	ments met through LED bulbs
Response: 34.55	
7.1.4.1 Annual lighting power requirement met throu	gh LED bulbs (in KWH)
Response: 312.084	
7.1.4.2 Annual lighting power requirement (in KWH))
Response: 903.4	
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 inspires inhabitants to remain eco-friendly through its campus. Besides having infrastructure, construction as per the necessity for an educational campus, the institute puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus. Monitoring and assessment of the green environment on the campus is done periodically.

Institute practices the waste management including solid waste management, liquid waste management and E-waste management.

Solid waste management

The total solid waste collected in the campus is 15 to 20 Kg/day on an average, from tree droppings, cups, paper, food waste etc. The waste is segregated at source by providing separate dustbins for Bio-degradable and non bio-degradable waste. Metal, Food and wooden waste is stored and given to licensed agents for further processing.

Liquid waste management

The Sewage water from the entire campus is received through the underground pipe lines. The treated water about 4166 liters/hour by Sewage treatment plant (STP) of 100KLD is used for gardening and flush out purposes. 19 lakh is spent to install STP.

• **Hazardous Waste Management:** The Institute produces only a negligible quantity of hazardous waste. Yet, efforts are on to curtail its spread. Chemical and biomedical waste are stored and given to authorized scrap agents for further processing.

E-waste Management

Efforts are taken to identify the sources of e-waste in the institute through its e-waste management system through environmental awareness club (EAC) and it has vendors to dispose the e-waste materials. The concept of reuse e-products has greatly reduced the problem of disposal. Electronic goods are put to optimum use; the minor repairs are set right by the staff and the Laboratory assistants; and the major repairs, by the professional technicians, and are reused. The damaged computers are used by the instructor in the practical sessions of the Certificate Course in Computer Maintenance and Hardware. They are exchanged with the local dealers. UPS Batteries are recharged / repaired / exchanged by the suppliers. The waste compact discs are used by students for decoration and participation in competitions on 'Art from Waste'. When they fall out of use, they are handed over to the agent of the suppliers of electronic equipment. Separate store is maintained for E-waste storage.

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:

Rain water harvesting structures and utilization in the campus

The Institute has set up Rainwater Harvesting (RWH), which reduces the expenditure of water

significantly. This method helps in the renewal of the institution's ground water, maintenance of water level and the quality of the water in the bore well. RWH is a vital environment friendly approach-hailed as a Green Practice at the Institute which is beneficial in improving the groundwater table and recharge the aquifer. RWH is also an economic practice.

The Rainwater Harvesting System includes the following:

S.No	Systems of RWH	Numbers	Capacity (litre
1	Rainwater Harvesting Pits	5	32000
2	Double Filtration Recharge Pit	1	85000
3 Single Filtration Recharge Pit		3	308360
	Total	·	425360

Ten RWH units are installed in six buildings of the Institute and 3 hostel buildings. It is located in such a way that the rain water from the roof reaches the structures through ducts installed for the purpose and flow to the ground below, towards the wells or pits. All recharge pits are constructed in low lying grounds around the buildings so that the water from higher grounds is emptied into them. Four recharge pits are constructed for boosting the water levels of the bore wells, to prevent soil erosion and meet the water requirements partially. The Institute is able to conserve lakhs of litres of water every monsoon just by channelizing the roof top water to the wells. The details of the RWH Units are as follows:

Average Rainfall Intensity in the year 2018 – 19 = 17.8cm

S. No	Building Name	Rooftop area (m2)	Total Runoff =K*I*A (roof top area x 0.178m x 0.75) (m3)	Runoff in Litres	Total Reuse R1+R
1.	R1 BLOCK A	3392	452.832	452832	16391
2.	BLOCK C (Single Filtration)	1430	190.905	190905	
3.	R8 BLOCK D NEW (Single Filtration)	4259	568.5765	568576.5	
4.	R7 BLOCK H (Boy Hostel) (Single Filtration)	s2097	279.9495	279949.5	
5.	BLOCK E	1100	146.85	146850	

	(Rainwater Harv	esting)					
6.	Girls Hostel	211	4	28	2.219	282219	
No of da	ays Consumed thro	ough Rain Wa	ater				90 / 18
Total R	ainwater Harvested	1				282219 (Ground	Water Rec
overhead harvestin are wate of signb	d tanks. During mon ng structures repleni ered using <i>sprinkler</i> oards and posters in s of distribution of	soons, when the shes the groun <i>system</i> to save the campus an stored harves	ted water:	n storage ole thus en vareness emises. (from 2	is reached, a suring a zer against water by be a series of the series of	any overflow from the rainy ro wastage system. The Gar or wastage is created by disp (9)	vater dens plays
S.NO.	Academic	Harvested	inConsur	ned in			
	Year	Liters	days	~			
1	2014-2015	623984	40 Day	'S			
2	2015-2016	369744	32 Day	'S			
3	2016-2017	369744	30 Day	'S			
4	2017-2018	83/9/3.5	/5 Day	'S			
р	2018-2019	1639113	90 Day	'S			
File Des	scription			Docum	ent		
Any add	litional information			View D	ocument		

View Document

Link for Additional Information

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:

Institution has established EAC for effective implementation of green practices across the campus.

Awareness program towards carbon neutrality and its implementation practices is organized for students and staff members regularly. Green audit is carried out annually by a team of students and staff and certified by TUV Nord. The outcomes and initiatives of the green practices are listed below :

a) Public Transport:

Institute encourages student and staff to use public transport facilities as it helps saving environment, leading to safe and secure life which in turn will benefit society.

b) Pedestrian friendly roads

The pedestrian friendly roads provided inside the campus is to enhance pedestrians and to encourage walking as an attractive means of transportation as well as for leisure, recreation and health.

c) Plastic Free campus

- Our institute advice student and staff not to use non-bio degradable bags.
- Students are educated on the harmful effects of plastics through awareness programmes.
- Avoiding the burning of plastic waste in the campus.
- Providing separate dustbins for degradable and non bio degradable waste at appropriate locations across the campus for timely disposal.

d) Paper Free Office initiatives:

- Management Information System enables efficient database management system covering all academic and administration activities of the institution.
- Sharing documents using official emails and other electronic Medias.
- e-notice boards on circulars are made available through students portal in the institutional website. (Link : http://www.drngpit.ac.in/enotice-board.php)
- e-circulars are forwarded to official email ids of staff members.
- Sharing of resource materials is carried out through LMS.

e) Energy Conservation

- The Institute has established an EAC to monitor and initiate students and staff into environment related issues
- The club conducts awareness programmes, quiz programmes, seminars, talks, and competitions to propagate among the students and staff, eco –friendly practices
- Energy audit have been carried out for various industries such as mahendra pumps.
- Team from student and faculty involved in energy audit practices in association with TUV India.
- The cell is instrumental in introducing LED (1064 nos), CFL lamps and low wattage fluorescent lamps in the college campus.
- Instruction labels are pasted at appropriate locations in the campus, constantly reminding users about the importance of energy conservation and reducing wastage.

f) Use of Renewable Energy

- solar energy system and lights within the campus to reduce the consumption of energy through nonrenewable energy resources
- Solar powered water heaters provide hot water to the students in the boys and girls hostels.

g) Efforts for Carbon Neutrality

- The EAC conducts an awareness programme about the importance of carbon neutrality and its impact on society
- Initiatives are taken to sensitize students and staff members in utilizing the common transport system in order to reduce the carbon emission
- The institute actively promotes the idea of vehicle pooling to both staff and student.
- Tree Plantation activities are carried out on a regular basis through various NGOs with the objective of enhancing the green cover and reducing the carbon foot print.
- Herbal garden is maintained and botanical names for all plants and trees are displaced.

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: 4.6

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

2018-19	2017-18	2016-17	2015-16	2014-15
10.21	66.84	61.28	15.28	19.62

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:

Physical facilities
 Provision for lift
 Ramp / Rails
 Braille Software/facilities
 Rest Rooms
 Scribes for examination
 Special skill development for differently abled students
 Any other similar facility (Specify)

Response: A. 7 and more 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: 35

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

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

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: 55

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	1	1	1	1
File Description	n	D	ocument	
-				
Report of the ev	/ent	V	iew 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

Response: 83

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

2018-19	2017-18	2016-17	2015-16	2014-15
6	8	6	5	4

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:

The institute organizes the national festivals and birth / death anniversaries of the great Indian personalities for every year. Staff members and students get to know the importance of national integrity in the country in general and their role in particular.

Date	National Festiv	als and Birth / Death Anniversaries	Events Organized
January 12	National Youth Day	Birthday of Swami Vivekananda	Events to indicate the power
			youth
January 26	Republic Day	commemorate the adoption of constitution	Flag-hoisting and march-pas
			are organized
February 28	National Science Day	Commemorate the discovery of the Raman	Science expo is conducted to
		effect in 1928 on behalf of Sir. C. V.	the school students.
		Raman, Physicist	
March 8	International Women's	-	Guest Lectures on Women
	Day		empowerment and Awarenes
			Campaigns are conducted
March 22	World Water Day	-	Awareness campaign to redu
			water pollution and importan
			on conservation of water
June 21	International Yoga		Awareness on the importance
	Day		of staying fit and healthy
			through yoga sessions at the
			campus
August 15	Independence day	India became an independent nation on	Flag-hoisting and march-pas
		August 15, 1947	are organized
September 5	Teachers Day	Dr. Radhakrishnan's birthday as Teacher's	Programme for the teachers
		Day with great fervor.	and the Guru-Shishya
			parampara is celebrated.
September 15	Engineers day	Birth Anniversary of Sir Visvesvaraya	Guest Lectures and Seminar
			insisting social responsibilit
			of Engineers are conducted
October 2	International Non-	Mahatma Gandhi Birth Anniversary	Events are organized to
	violence Day		emphasize the role of youth
			development of our Nation.
October 15		Dr. APJ Abdul Kalam birth anniversary	Various events like book
1			

1	1	1		1
				release, poetry competition a
				conducted.
October 31	National Unity Day	Ekata Divas	B -Birth Anniversary of Sardar	Students and staff members a
			Patel	made to take pledge on
				national unity during this day
November 11	National Education	Birthday of S	Shri MaulanaAbulKalam Azad	Pamphlets are distributed to t
	Day	(1888), the fi	rst Education Minister of India	public stating the importanc
				of education to all through the
				Institution.
November 19	National Integration	Birthday of	of Smt Indira Gandhi (1984)	Students and staff members a
	Day			made to take pledge on
				National Integration during th
				day.
Diwali	Lord Krishna's Victory	Narakasura	a was killed by Lord Krishna.	This day is celebrated in the
	over Narakasura			institute by distribution of
				sweets and gifts, to all the
				employees through staff club
Pongal	Harvest festival	Thanksgiv	ving ceremony for the year's	Gift and sweets are distribute
		U	harvest.	throughout the institution to
				celebrate this joyous occasio
		-		through staff club
Avudha Puja &	festival of triumph	Chamundes	hwari killed Mahishasura who	Celebrated in the college by
Saraswati Puja	r	was	a famous demon king	chanting Vedic hymns for a
		Wus	a faillous action king	the labs and facilities with
				staffs and students
Ganesh	Hindu festival	Birth	lay of the lord Ganesha	Sweet Modaks are distribute
Chathurthi	Tillidu Tosti vul	Ditti	any of the ford Suncond	to students and staff member
				by the Institution
				by the institution.
File Description	L		Document	
Any additional in	nformation		View Document	

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

Response:

Transparency Mechanism:

The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions. The policies and procedures are set as per the guidelines of the regulatory authorities like UGC, AICTE and Anna University.

The policies and procedures of the institution are discussed in the 14th GC meeting held on 17.09.2016.

Financial:

- All transactions are made through bank and receipts are promptly issued.
- Salaries of the teaching and non-teaching staff are deposited in their account through bank.
- Scholarships and freeships provided by the institution are issued through vouchers
- All financial transactions are entered through double entry book keeping and audited each month end by Finance Controller and external auditors. Final Book closing Trail Balance Financial Reports preparation id transparent, timely and accurate information to the statutory authorities.
- Department budget allocation is transparent and is initiated by collecting and summarizing the projected expenditure from individual staff and presented by HoDs to budget committee. The summarized budget is consolidated by IQAC and reviewed by Academic council for approval by Governing Council.
- Department incidental expenditures are meet through petty cash provided to HoDs and Principal.

Academic

- All official communications are circulated through email.
- Activities are discussed in HoDs meetings and circulated to all teaching and non-teaching staff by email. Students related circulars and calendar of activities for each semester is circulated through department notice boards, e-notice boards in website and students institutional unique email ids.
- Planning of all academic activities are proposed in IQAC meetings and approved in Academic council meetings.
- Study materials are made available in online LMS portal.
- Internal assessment is transparent and robust.

Administrative:

- Recruitment policies and procedures are transparent and as per the guidelines given by AICTE and Anna University
- Students attendance on a daily basis and periodic internal assessment marks are updated to parents through SMS.
- Provision to pay fees through online mode.
- Fees structure is transparent
- Requisition forms like bonafide certificate, on duty, leave application, medical leave, no dues, Wi-Fi registration are made available in online portal.
- Maintenance of physical and academic facilities are administrated by supervisor

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 –I

1. Title of the Practice: Industry Alliances and Partnership through AICTE sponsored IIPC - Centers of Excellence, Industry powered centers and MoUs.

2. Objectives of the Practice:

The objectives in establishing IIPC is to strengthen Industry-Institution interaction so as to enable free consultation, technology upgradation, orienting staff and student to industry practices, changing trends and workplace culture with the required skills and to assist in undertaking industry projects.

- To arrange industrial training for students and identify appropriate student project work in industry.
- To interact with industrial organization for conducting joint project work involving faculty, research scholars and students
- To invite professionals from industry to sensitize the students and faculty with industry practices. Also, associating with experts from industry in planning and review process of elective and value added courses.
- To organize personality development workshops and soft skill training with the help of industry experts.
- To arrange technical festivals, project expo, design competitions/ Hackathon events to carry out more innovative and lab to land projects.
- To plan and execute continuing education programs.

Benefits :

- Augmentation of certified courses, guest lectures, seminar, workshops, field trips, industrial projects to fulfill the identified curriculum gaps.
- Sharing of resources and expertise by establishing Centers of Excellence.
- Promoting students and staff industry linkages through MoUs.
- Revenue generation by consultancy and collaborative research projects towards product development, publications and intellectual property rights.
- Faculty stand to gain by way of exposure to latest industry practices for more effective teaching learning processes.
- Industry stands to gain by way of creating employable manpower pool and increased thereby improvement in the quality of goods and services for society.
- Augmenting much industrial collaboration that yields better placement and internships.

3. The Context

Since there exists a hiatus between curriculum taught and industry requirements, Centers of Excellence, Industry powered centers have been set up to provide industry certified courses and hands on training for better employability and career growth.

4. Practice

- Linkages have been created with industries and MoU's have been signed.
- Industry powered laboratories have been established.
- Internships in-plant trainings and industrial projects in reputed organizations.
- Finding solutions of various problems faced by industry during the operation of industrial unit.
- Conducting market survey and feasibility reports through projects assigned to students and making them industry fit.
- Research internships and attachments programs have been provided with industries and foreign industries.

5. Evidence of Success

• Signed 56 MoUs with leading industrial organizations ; to name a few

Siemens Healthcare Pvt. Ltd., Giles Brooker Group, IIT Pals (IIT Alumni Leadership Series), Dexler Information Solutions Pvt Ltd., Texas Instruments, TMI Systems, Helix Pvt Ltd, IBM India Pvt Ltd., KEF Infrastructure India Pvt Ltd., Shankar and Associate, Coimbatore Productivity Council, Oracle Corporation, Cisco Systems Ltd., National Instruments, Siemens Limited, HCL, BSNL, CODISSIA, COINDIA, UTL Technologies Ltd.,

- MoU signed with foreign universities like Universiti Teknologi Petronas, Malaysia, Florida Atlantic University, USA, Wayne State University, USA for research internship programs and staff training programs. 3% of students pursuing higher studies in these universities.
- Established industry powered centers and Centers of Excellence namely Mathworks Academy, Salzer Innovation Center, CDAC- IoT research lab, NI LabVIEW Academy, CISCO Networking Academy, IITB E-Yantra : Centre for Robotics, TI Centre.
- Arranged internships, in-plant training and industrial projects with reputed industries like DRDO, ISRO, CTS, BHEL, Keltron, Pricol, Ashok Leyland and others.
- 69 Lab to Land innovative award winning products design and developed.
- The innovative lab to land projects submission to various government and non-government agencies; received the project grant Rs. 42,52,455/-.
- IEEE Rs 77,446
- ICTACT academy Rs 35,000
- TNSCST Rs 2,15,000
- ISTE Rs 5,30,551
- CSI Rs 10,000

- DRDO Rs 30,000
- FAER Rs 5,000
- NI Yantra Rs 1,02,500
- IE Rs 15,000
- KMCH Rs 32,308
- AICTE Rs 2,00,000
- INSA Rs 1,39,750
- CSIR Rs 2,50,000
- ISRO Rs 1,25,000
- ICMR Rs 10,50,000
- Texas Rs 9,56,900
- DST Rs 4,78,000
- Received funds of Rs. 14 Lakhs from various funding agencies, industries and other organization for product development
- Applied for AICTE-CII survey and received Gold ranking; Platinum ranking (2017-18)
- 30 projects of software and hardware edition in National level Smart India Hackathon 2018 were submitted and 1 project in hardware edition shortlisted as finalist.
- 48 activities like factory visit, theory to practical session, webinars, InnoWAH competitions through IIT Pals.
- 4 PoC have been submitted and 1 PoC was shortlisted as finalist. Based on these activities, the MHRD IIC has received a 4 star rating.

6. Problems Encountered and Resources Required:

Constant motivation is required to enable the students to become certified professionals in the programs conducted by these establishments and to manage time between regular academic schedule and industry interface programs.

Best Practice –II

1. Title of the Practice: Green campus initiatives and practices.

2. Objectives

The Institute is implementing appropriate Green campus practices to foster a culture of self sustainability and make entire campus environment friendly. The major objectives of green campus initiatives are:

- To promote optimum utilization of renewable resources.
- To establish the green campus structures for the sustainable implementation of green campus

practices.

- To create a model for waste management and eco-friendly methods.
- To reduce green house emissions on campus in order to cope up with climate change.
- To ensure the preservation of natural resources with aids of rain water harvesting system, sewage treatment plants, bio hazard management and E-waste management etc.
- To create awareness about green campus practices among the students and staff members.

Benefits

- Establishment of rain water harvesting system, sewage treatment plant etc. inside the campus.
- Reduction in conventional energy consumption and energy losses through enhanced utilization of renewable energy practices.
- Establishment of renewable energy clubs, Natural club and environmental awareness clubs through which many events and seminars are conducted to create awareness about *Green campus initiatives and practices among the students and staff members.*
- Green audit is conducted in a yearly basis to assess waste management mechanism, natural issues, sources of water etc. and suggested appropriate remedial actions.
- Obtained green energy audit certificate from TUV India Pvt. Ltd., which ensures the implementation of Green campus initiatives in the campus.

3. The Context

Since the need arise to protect the environment, prevent the waste of water and optimum utilization of energy resources in the campus, the institute adopts various *Green initiative practices with the voluntary participation of students and staff members*.

4. ThePractice

- Energy audit process has been implemented through energy audit team comprising faculty and students.
- Instructional labels with respect to *Green campus initiatives are displayed at prominent location inside the campus.*
- Renewable energy such as solar plants, solar heaters and solar lamps have been installed inside the campus.
- Rain water harvesting system have been constructed with cost of Rs. 92,340/- within the campus.
- Tree plantation activities are carried out at regular basis through EAC in association with NSS.
- Sewage is being treated with usage of sewage treatment plant.
- Usage of paper has been optimised on the campus by using ICT tools.
- Establishment of waste management system to treat hazardous and

E-waste etc.

• Usage of common transport system, battery operated vehicle and increase of usage of bicycles are encouraged among the faculty and students to reduce the carbon footprints.

5. Evidence of Success

- Existing CFL and conventional light sources are replaced with LED bulbes at a cost of Rs. 1,21, 800.00/- which reduce the energy consumption around 10% during 2018-19.
- Installation of 3 roof top solar plants with the capacity of 20KW, 30 KW and 60KW in the campus to meet the annual power requirement of the institution. About 23% of energy requirement is generated through these plants.
- Around 32000 Litres of rainwater have been harvested through rain water harvesting system which has also increased the ground water levels. The harvested rain water system is used for gardening and other purposes.
- Implementation of dhi and integrated automation system at a cost of Rs. 3,53,114/- which resulted in optimum utilization of paper in the academic and administrative purposes.
- Considerable improvement in cleanliness and Hygenie has been observed after the implementation of waste collection mechanism through the usage of different color bins representing Bio degradable and plastic wastes. Further a mechanism has been established to process the e-waste through an environmental friendly measure.
- The sewage treatment plant is installed at the cost of Rs. 19,03,395/-. This STP treats about 41,665 Liters/hour of which 100 KLD is used for gardening and flush outs.
- Through carbon footprint initiatives, 20, 695 Kgs of carbon footprint has been generated within the campus.

6. Problems Encountered and Resources Required:

Constant motivation is required to enable the students and faculty on sustainable utilization of the established green campus practices.

Best Practice –III

1. Title of the Practice: Effective implementation of Outcome Based Education (OBE) practices

2. Objectives

- To inculcate experiential learning activities for critical thinking, reasoning, reflection and suitable action
- To focus with a clear idea of what is important for students to be able to do successfully at the end of their learning experiences.
- To organize everything in an educational system ie the curriculum, instruction and assessment etc., to make sure that the learning happens ultimately.
- To produce students with all-round attributes which fulfill knowledge, skill and attitude to become a successful engineer in the changing world.
- To design and plan the curriculum as per the expected outcomes

3. The Context

Student centric teaching and learning methodologies in which course delivery and assessment are planned to achieve stated objectives and outcomes using learning objectives rather than instructional objectives by adapting innovative teaching learning practices.

4. Practice

- Faculty members develop micro level teaching plan to achieve course outcome
- Activity based teaching is incorporated to facilitate inclusive teaching learning environment
- Models are developed to demonstrate complex/difficult concepts
- To enhance micro level learning, faculty members adopt appropriate assessment strategies. Hence, the assessment provides the feedback to improve the implementation of OBE.
- To suplement the curricular gaps, teachers adopt innovative teaching learning practices to attain the graduate attributes.

5. Evidence of Success

- Existing CFL and conventional light sources are replaced with LED bulbes at a cost of Rs. 1,21, 800.00/- which reduce the
- DAB approved COs are practiced for attainment
- More involvement of students in group assignments and collaborative learning methods like flipped classroom, Think Pair Share, etc..,
- More than 60 Teaching Learning documents have been uploaded by most of the faculty in public forum like YouTube, author stream, etc.,
- Increased number of student innovative projects and participation in Project Expo, Smart India Hackathon and other technical events are obtained.
- Feedback is obtained through Course end survey from the students at the end of each semester on course delivery. The analysis of Feedback is used to continuously improve the OBE practices.

6. Problems Encountered and Resources Required:

Continuous improvement and sustainance is required from faculty members and students for effective implementation of OBE.

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:

INSTITUTIONAL DISTINCTIVENESS:

- The vision of Dr.NGP Institute of Technology, Coimbatore is to empower the students for succeeding in a changing world to become productive engineers and responsible citizens. To achieve this Vision, institute works comprehensively in both academic and administrative aspects.
- Creating conducive learning environment with state-of-art infrastructure and laboratories and emphasize on inculcating ethical standards among students through outreach programs.

Activity- Conducive learning environment to impart quality education:

Dr. NGPIT has an eco-friendly campus with ICT enabled classrooms, well equipped state of art laboratories, well stocked library, Industry powered centers which nurture the students to enhance their technical competency. Institute ensures the continuous upgradation of the laboratories to fulfill the curriculum gaps as per the industrial needs. In every department, class rooms, tutorial/Elective room and seminar halls are equipped with ICT facilities. In labs and class rooms LAN and Wi-Fi facilities are available. Exclusive department library is equipped with computing facilities, adequate seating capacity, technical books to impart quality education. Web portal is accessible to all stakeholders with learning material, attendance, internal test performance and other news and events. The institute established industry powered centers and incubation centers to offer value added courses, Life skill courses and vocational educational courses to the students and the public. Students are encouraged to participate in various extension and outreach activities through professional societies, clubs to instill social and ethical values. Through IIPC, the institute has signed MoUs with industries and foreign universities for research collaborations, Internship/In-plant training programmes, Industrial Visits to gain knowledge on real time applications. Institute provides prerequisite training to students for building and developing competencies for the placement and career development.

Academic Facilities:

The institute has a vast campus with well planned network comprising more than 50 class rooms, 4 drawing halls, 14 tutorial halls, 7 elective classroom, 62 laboratories, 8 department seminar halls, 1 conference centre with seating capacity of 1200, 9 department libraries in addition to the central library, Convention Center, Audio Visual enabled classrooms, IP enabled library. In addition Center for e-learning facilities established with resources like Swayam Prabha technology DTH channel, Center for Teaching Learning (TLC), EDUSAT, A-View, IIT – B spoken tutorial, NPTEL nodal center, Learning Management System, e-books and e-journals, digital library to promote the eLearning practices to enhance the quality of education. Remote access nodal centre for VALUE virtual lab has also been setup in the institution.

Library:

The institute has central library and nine departmental libraries. There is an **Online Public Access Catalogue (OPAC)** for students and staff. The reading room is well furnished to accommodate 250 students at a time and provides conducive environment for study. Exclusive reference section is available in the library.

LMS:

It is an IP enabled online software used to share the course content to the students for the enhancement of Teaching Learning process. It also used to share various study materials on the basis of anytime and anywhere accessing. It provides an efficient way to conduct forum discussion among the student community and online quiz activity during the laboratory sessions.

Center for Teaching Learning Center:

The center for teaching learning setup with audio/video recording facilities to offer professional development services for students and faculty. It helps to overcome the obstacles in effective teaching and learning process. The TLC supports the students into self-directed lifelong learners on their pathways to academic success and beyond. It also ensures constructive, active learning for students and promotes teaching excellence among the faculty.

Industry Institute Partnership Cell:

IIPC brings together industries, business leaders, researchers, established technology companies and investors for the empowerment of students and faculty. 56 **MoUs** have been signed with leading industries, research organizations and foreign universities, which provide ample opportunities for the students and faculty to understand the real time problems. Institute has established 14 Centers of Excellence and industry powered laboratories for enhancing innovative and creative learning abilities of the students.

15 Professional societies and chapters are established to provide professional growth and connectivity for the advancement of engineering professionals.

Mentoring System:

The mentoring scheme at Dr NGP IT effectively covers academic, psycho-social and career issues. A team comprising of faculty tutors, class advisors, Heads of Departments, Alumni, Placement Coordinators, Professional Counselors and Industry Mentors to provide guidance and Mentoring for the students.

Placement Training & Career guidance:

Training and Placement Cell is established to conduct training activities towards preparing students for campus Interview. Through its well structured training methodologies, students are being trained on various skill sets as per industrial requirements. This yields ample placement opportunities for the students.

Career guidance is a source of information for guiding and counseling students to provide training-learning opportunities, imparting technical as well as communicative skills for individual development which is required for one's career.

Computing Facilities:

The institute has well-structured IT facilities with 88Mbps bandwidth for 24x7 connectivity. It established wired and 15 Wi-Fi hotspots -wireless connectivity for use of students and faculty members across the campus including hostel.

Skill Development:

In association with MHRD, the Institute has established MHRD Innovation Council to trigger synergy among the student community to work on new ideas, innovation and promote them to create start-ups and entrepreneurial ventures.

Pradhan Mandhri Kaushal VikasYojana (PMKVY) – Technical Institutions in collaboration with AICTE and NSDC has initiated the process for skill development courses. Three courses (Healthcare, Automotive and Infrastructure) were completed successfully.

Research culture:

The institution has established Center for Research, Idea Innovation Club and Intellectual Property Rights Cell to promote technology innovations. These centers mainly focus on interdisciplinary research and product development. Also, they cultivate constant research culture among the students and faculty for new discoveries. The teachers and students published more than 600 research papers, books, book chapters, monographs etc., and filed more than 17 patents during this assessment period. Innovation activities are highly appreciated by the institution by providing project funds, seed money, travel grants, awards and recognition, etc.,. These centers organize research events like MoUs, conferences, research seminars, industry expert talks, foreign university collaborations etc.

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

Additional Information :

All India Council for Technical Education (AICTE) - Pradhan Mantri Kaushal Vikas Yojana (PMKVY) Centre was established to offer training to youth in Automotive (Mechanical), Healthcare (Biomedical) and Infrastructure sectors (Electrical and Electronics). National Institute for Entrepreneurship and Small Business Development (NIESBUD) has empanelled our institution under Pradhan Mantri Yuva Yojana (Formerly known as UdyaMita Scheme). Our college has been recognized as Vocational Training Centre by National Council of Vocational and Research Training (NCVRT), New Delhi. Dr.NGPIT established Teaching and Learning Centre (TLC) with the objectives of educational excellence, enterprise level instructional technologies for the advancement of scholarly teaching.

- Our institution received **"Best Infrastructure Institute"** award in recognition of excellent infrastructure facilities to practice science, engineering and technology from Dr.Kalam Educational Trust for Tribal.
- **"Platinum Ranking"** in All India Council for Technical Education (AICTE) Confederation of Indian Industry (CII) Survey of Industry Linked Technical Institutes 2018
- Dr.K.Porkumaran, Principal & Professor received an ISTE Best Chapter National award for outstanding professional contributions, ISTE National Convention, Kottayam.
- Our institution has been ranked 194th rank in top best engineering colleges of INDIA under India Today MDRA.
- Established **MHRD Institution Innovation Council (IIC)** under MHRD Innovation Cell (MIC), Government of India.
- Our institution has been selected for **Unnat Bharat Abhiyan (UBA)** is flagship programme of the Ministry of Human Resource Development (MHRD) that aims to enrich Rural India.
- Our institution has been shortlisted for **Swachhata Ranking Awards**, initiated by Department of Higher Education to generate healthy peer pressure among higher educational institutions for keeping and maintaining hygienic campuses.

Concluding Remarks :

Dr NGP Institute of Technology aims to provide excellence in education through well-educated and trained educationalists. Engineering education faces significant changes as it seeks to meet the demands of the engineering profession in the twenty-first century. As technology enhanced learning has taken over the teaching and learning process, the Institute focus on enterprise level instructional technologies with the advancement of scholarly teaching.

With the continuous effort and perseverance, the institution, faculty and students received many research grants, awards from various government, non-government agencies and industriessuch as DRDO, SERB, DST, ISRO, CSIR, Texas Instruments etc.

The Institution facilitates innovative techniques to build technical knowledge and cultivate creativity among students with a scientific attitude, to find out solutions for real time problems. For this, hands on training sessions are offered in laboratories and in centers of excellence in association with leading industrial organization.

The emerging Engineers and Managers are able to visualize complex problems and come up with solutions by modeling, simulation and algorithm development approaches. An awareness of the vital role of tools for designing, prototyping and deploying technical concepts is also delivered to the emerging technocrat.Our Center for E-Learning has facilities like EDUSAT, NPTEL, Spoken Tutorial by IIT Bombay, web portal and further enhance the teaching learning process.The Institute provides conducive environment for holistic learning with the wide range of learning resources to empower the students for succeeding in a changing world to become a productive engineers and responsible citizens.

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6.ANNEXURE

1.Metrics Level Deviations

Metric I	D Sub Q	Questions and	nd Answers	before and	after DVV	Verification		
1.1.2	Numt	per of certif	icate/diplon	na program	introduced	during the l	st five years	
	1.1	.2.1. Num	ber of certi	ficate/diplo	ma progra	ms introdu	ced year-wise during the las	t five
	years			•	ľð		v o	
		Answer be	fore DVV V	/erification	:	1		
		2018-19	2017-18	2016-17	2015-16	2014-15		
		115	101	92	71	54		
		Answer At	fter DVV V	erification :				
		2018-19	2017-18	2016-17	2015-16	2014-15		
		19	22	23	20	16		
.1.3	Colleg 1.1 Acade	1.3.1. Number of particular of particular of particular of the par	control pation of Colleges, su per of teacher cil year-wise fore DVV V	ch as BoS a ers participa e during the	and Academ and in varie ting in varie last five yea	ic Council of ous bodies of ars	s of the Universities/ Autonon uring the last five years f the Institution, such as BoS a	nous
		2018-19	2017-18	2016-17	2015-16	2014-15		
		20	20	18	17	16		
		Answer At	fter DVV V	erification :				
		2018-19	2017-18	2016-17	2015-16	2014-15		
		15	15	16	16	14		
	Re	emark : Upc	lated as per	attached do	cuments			
.2.1	Perce	ntage of ne g last five y	w Courses i ears	ntroduced o	out of the tot	al number o	f courses across all Programs of	offere
	1.2	2.1.1. How Answer be Answer af	many new c fore DVV V ter DVV Ve	ourses are i Verification rification: 5	introduced v : 776 562	vithin the la	t five years	
.2.3	Avera	ige percenta ams as agai	age of stude nst the total	nts enrolled number of	l in subject 1 students du	elated Cert	icate/ Diploma programs/Add five years	-on
	1.2	2.3.1. Numł	per of studer	nts enrolled	in subject r	elated Certi	icate or Diploma or Add-on pr	rogran

	year-wise durir Answer	ng the last five pefore DVV V	e years Verification	:			
	2018-19	2017-18	2016-17	2015-16	2014-15		
	1851	1891	1863	1912	1701		
	Answer	After DVV V	erification :				
	2018-19	2017-18	2016-17	2015-16	2014-15		
	1062	1320	1032	918	588		
1.3.2	Number of valu	le added cour	ses impartin	ng transfera	ble and life	kills offered durin	g the last f
	1.3.2.1. Nur last five years Answer l Answer a	nber of value pefore DVV V after DVV Ve	-added cour Verification erification: 9	rses impartin : 188 97	ng transferat	le and life skills o	ffered durii
1.3.3	Percentage of s	tudents under	rtaking field	l projects / i	nternships		
2.1.2	Answer a Average Enroll (Average of las 2.1.2.1. Nur Answer	after DVV Ve ment percent at five years) nber of studen	erification: 1 age nts admitted	l year-wise	during the la	st five years	
	2018-19	2017-18	2016-17	2015-16	2014-15		
	479	622	587	626	540		
	Answer	After DVV V	erification ·	1	,		
	2018-19	2017-18	2016-17	2015-16	2014-15		
	479	622	587	626	540		
	2.1.2.2. Nur Answer	nber of sancti before DVV	oned seats	year-wise du	uring the las	five years	
	2018-19	2017-18	2016-17	2015-16	2014-15		
2.1.3	Average percer reservation pol	ntage of seats icy during the	filled again a last five ye	nst seats res ears	erved for va	rious categories as	per applica
	2.1.3.1. Nur	nber of actual	l students ac	lmitted fron	n the reserve	d categories year-	wise during

2018-19	2017-18	2016-17	2015-16	2014-15
204	227	227	238	245
Answer At	$\frac{1}{2017.18}$	$\frac{1}{2016}$	2015 16	2014 15
2010-19	2017-10	412	2013-10	410
374	442	412	434	418
Ratio of students	to mentor f	for academi	c and stress	related issue
2.3.3.1. Numb Answer be Answer af	fore DVV V ter DVV Ve	ors Verification erification: 1	: 141 141	
Average percenta	age of full ti	ime teacher	s with Ph.D	during the
2.4.2.1. Numl Answer be	per of full ti	me teachers	with Ph.D. :	year-wise d
2018-19	2017-18	2016-17	2015-16	2014-15
48	42	36	37	32
Answer At	fter DVV V	erification :		
2018-19	2017-18	2016-17	2015-16	2014-15
47	42	36	37	32
Percentage of ful International leve	ll time teach el from Gov	ers who rec ernment, re	ceived award	ls, recogniti dies during
2.4.4.1. Numl from Governmer Answer be	per of full ti at recognise fore DVV	me teachers d bodies yes Verification	receiving a ar-wise duri	wards from ng the last f
2018-19	2017-18	2016-17	2015-16	2014-15
	59	23	23	8
86	57			1
86 Answer At	fter DVV V	erification :		1
86 Answer A 2018-19	fter DVV V 2017-18	erification : 2016-17	2015-16	2014-15
Bhavan,ISTE, New Delhi 2018-19 ISTE Best Chapter National award for outstanding professional contributions, ISTE National Convention Kottayam

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)

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)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
62.011	47.351	47.758	47.306	31.446

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1.34	0.4	0.15	1.318	0.93

Remark : The HEI given links are not opening and from the attached pdf the data cannot be verified. DVV verified data from Excel only as mentioned earlier has been considered 1 - 2014-15 -Experimental studies on fibre reinforced concrete 2 - 2014-15 - Gsm based automatic irrigation control system for efficient use of resources and crop planning 3 - 2014-15 - Analysis and monitoring of various parameters for wireless boiler 4 - 2015-16 - Study on characteristics strength of self curing concrete 5 - 2015-16 - Smart E-Voting using Android Operating System 6 - 2015-16 - Water Theft Identification and Monitoring System 7 - 2016-17 - Earthquake resistant structure with rotating foundation 8 - 2016-17 - Trendy Software in Parallel Networking 9 - 2016-17 - Smart car using IOT 10 - 2017-18 - Effectiveness Of Multi -Sensory Story Telling to Improve the Social Communication of Children With Special Needs 11 - 2017-18 - A Novel Method for Electrical 12 - 2017-18 - A Stress Detector based on microcontroller (Ardiuno 1.0) 13 - 2017-18 - A Study on the Social Status of Sanitary Workers w.r.t. Coimbatore Municipal Corporation 14 - 2018-19 - MEDIBIN-The Medical Dustbin 15 - 2018-19 - Automated Saline Monitoring System from Nursing Station 16 - 2018-19 -Novel structural binder on iron carboniation - a greener alternative to concrete 17 - 2018-19 - To study about the properties of concrete with tertiary treated industrial effluent 18 - 2018-19 -Experimental investigation on durability characteristics of e-waste concrete 19 - 2018-19 - Voice Based email system for blinds 20 - 2018-19 - Automation Inventory optimization 21 - 2018-19 - War Field Spy Robot 22 - 2018-19 - Robotic Assisted Blood Drawing Machine using Raspberry-Pi

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

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

Answer before DVV Verification: 354

Answer after DVV Verification: 23

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

		Answer be Answer aft	fore DVV V er DVV Ve	Verification	: 896 344				
	Rei	Remark : The Input updated as per comments in 3.1.1							
3.2.2	Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry- Academia Innovative practices during the last five years								
	3.2 Indust	.2.1. Numb ry-Academ Answer be	er of works ia Innovati fore DVV V	hops/semin ve practices /erification	ars conduct year-wise c	ed on Intell luring the la	ectual Property Rights (IPR) and ast five years		
		2018-19	2017-18	2016-17	2015-16	2014-15			
		106	96	108	73	74			
		Answer Af	ter DVV V	erification :					
		2018-19	2017-18	2016-17	2015-16	2014-15			
		14	13	11	11	9			
3.3.4	3.3 Numb years	Answer be Answer aft .3.2. Numb <u>Answer be</u> er of resear	fore DVV Ve er DVV Ve per of teache fore DVV V rch papers p	Verification: 3 prification: 3 pers recogniz Verification per teacher i	: 39 38 2ed as guide : 20 n the Journa	s during the als notified o	last five years		
	3.3 years	.4.1. Numb	per of resear	ch papers in	n the Journa	ls notified o	n UGC website during the last five		
		Answer be	fore DVV V	Verification	:	2014.15]		
		2018-19	2017-18	2016-17	2015-16	2014-15			
		152	177	139	51	73			
		Answer Af	ter DVV V	erification :					
		2018-19	2017-18	2016-17	2015-16	2014-15			
		101	93	79	41	50			
3.3.5	Number	er of books al/internati	and chapte onal confer	ers in edited ence procee	volumes/bo edings per te	ooks publish eacher durin	ed and papers in g the last five years		
	3.3 nation	.5.1. Total al/internati	number of l onal confer	books and c ence-procee	hapters in e edings year-	dited volum wise during	es / books published, and papers in the last five years		

		Answer be	fore DVV V	verification:		
		2018-19	2017-18	2016-17	2015-16	2014-15
		265	142	88	37	2
		Answer Af	ter DVV Ve	erification :		
		2018-19	2017-18	2016-17	2015-16	2014-15
		77	82	55	6	1
3.4.2	Numb bodies 3.4 Gover	er of award during the .2.1. Total	ls and recog last five ye number of a ognised bod	nition receitars wards and lies year-wi	ved for externation recognition se during th	ension acti received f e last five
		Answer bei	fore DVV V	Verification:	2015 16	2014 15
		2018-19	2017-18	2010-17	2015-16	2014-15
		34	16	14	15	13
		Answer Af	ter DVV Vo	erification :		
		2018-19	2017-18	2016-17	2015-16	2014-15
		1	0	0	2	2
3.4.4	Avera Non-C Issue, 3.4 Organ Aware	ge percenta Government etc. during 4.1. Total isations, No eness, Gend Answer be	ge of studen t Organisati the last five number of s on-Governn ler Issue, etc fore DVV V	nts participa ons and pro e years students par nent Organi c. year-wise Verification:	ating in extension extension of the second s	as Swachl extension programs last five ye
		2018-19	2017-18	2016-17	2015-16	2014-15
		1076	1077	998	891	795
		Answer Af	ter DVV Vo	erification :		
		2018-19	2017-18	2016-17	2015-16	2014-15
		993	973	886	798	620
3.5.1	Numb resear 3.5	er of linkag ch, etc duri .1.1. Numb	ges for facul ng the last f er of linkag	ty exchange ive years es for facul	e, student ex ty exchange	change, ir

	job trai	ning, resea Answer bef	arch, etc yea fore DVV V	r-wise duri rerification:	ng the last f	ïve years	
		2018-19	2017-18	2016-17	2015-16	2014-15	
		182	201	255	183	151	
	4	Answer Aft	ter DVV Ve	erification :			
		2018-19	2017-18	2016-17	2015-16	2014-15	
		173	201	255	183	151	
3.5.2	Numbe Institut ongoin 3.5. univers MoUs	er of functions, Industry g activities 2.1. Numbusities, industry with ongoi	onal MoUs stries, Corpo to be consi er of functions stries, corpo ng activities	with institu orate houses (dered) onal MoUs orate houses s to be cons Verification:	tions of Nat s etc., durin with institu etc. year-w idered)	tional/ Intern g the last fiv tions of nativise during t	national importance, Other re years (only functional MoUs with onal, international importance, othe he last five years (only functional
		2018-19	2017-18	2016-17	2015-16	2014-15	
		17	12	9	3	15	
	4	Answer Aft	ter DVV Ve	erification :			
		2018-19	2017-18	2016-17	2015-16	2014-15	
		12	07	05	3	8	
4.1.3	Ren MoU's been co Percent etc	nark : As p of life span ounted as 0 tage of clas	er the HEI on of 01 and 01 only.	data attache 02 years are 1 seminar ha	d with the M e not consid alls with IC	Metric in res lered. MoU' T - enabled	ponse and the copies of the MoU. s covering multiple activities have facilities such as smart class, LMS,
	4.1. <i>P</i>	3.1. Numb Answer bef Answer afte	er of classro Fore DVV V er DVV Ve	ooms and se verification rification: 6	eminar halls : 68 8	with ICT fa	ıcilities
4.1.4	Averag last fiv	ge percenta e years.	ge of budge	et allocation	, excluding	salary for ir	nfrastructure augmentation during th
	4.1. last fiv	4.1. Budge e years (IN Answer bef	t allocation IR in Lakhs Fore DVV V	for infrastr) /erification:	ucture augn	nentation, ex	ccluding salary year-wise during the
		2018-19	2017-18	2016-17	2015-16	2014-15	

177.96 383.39 99.48 114.95 476.52 Answer After DVV Verification :2018-19 $2017-18$ $2016-17$ $2015-16$ $2014-15$ 177.96 383.39 98.48 114.95 476.52 4.2.4Average annual expenditure for purchase of books and journals Lakhs)4.2.4.1. Annual expenditure for purchase of books and journals Lakhs)Average annual expenditure for purchase of books and journals Lakhs)Average annual expenditure for purchase of books and journals Lakhs)Average number of PVV Verification:2018-19 $2017-18$ $2016-17$ $2015-16$ $2014-15$ 18.5916.37 20.33 24.62 26.48 Answer After DVV Verification :2018-19 $2017-18$ $2016-17$ $2015-16$ $2014-15$ 22.71 18.91 23.12 27.88 35.03 4.2.6Percentage per day usage of library by teachers and students4.2.6.1. Average number of teachers and students using librat Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific da5.1.2Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
Answer After DVV Verification : $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 177.96 383.39 98.48 114.95 476.52 4.2.4Average annual expenditure for purchase of books and journals Lakhs)4.2.4.1. Annual expenditure for purchase of books and journy years (INR in Lakhs) Answer before DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 18.59 16.37 20.33 24.62 26.48 Answer After DVV Verification : $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 22.71 18.91 23.12 27.88 35.03 4.2.6Percentage per day usage of library by teachers and students Answer before DVV Verification : 822 Answer after DVV Verification : 822 Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific day5.1.2Average percentage of students benefited by scholarships, frees besides government schemes during the last five years
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177.96383.3998.48114.95476.52 $2.2.4$ Average annual expenditure for purchase of books and journals Lakhs) $4.2.4.1.$ Annual expenditure for purchase of books and journ years (INR in Lakhs) Answer before DVV Verification: 2018.19 2017.18 $2016-17$ 2015.16 2014.15 2018.19 2017.18 2016.17 2015.16 2014.15 2018.19 2017.18 2016.17 2015.16 2014.15 2018.19 2017.18 2016.17 2015.16 2014.15 22.71 18.91 23.12 27.88 35.03 $4.2.6$ Percentage per day usage of library by teachers and students Answer before DVV Verification : Answer after DVV Verification : 822 Answer after DVV Verification : 708 822 $4.2.6.1$ Average number of teachers and students using librar Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific da $6.1.2$ Average percentage of students benefited by scholarships, freesl besides government schemes during the last five years
I.2.4Average annual expenditure for purchase of books and journals Lakhs)4.2.4.1. Annual expenditure for purchase of books and journal years (INR in Lakhs) Answer before DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 22.71 18.91 23.12 27.88 35.03 1.2.6Percentage per day usage of library by teachers and students $4.2.6.1$. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific dat $5.1.2$ Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
years (INR in Lakhs)Answer before DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 18.59 16.37 20.33 24.62 26.48 Answer After DVV Verification : $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 22.71 18.91 23.12 27.88 35.03 4.2.6Percentage per day usage of library by teachers and students4.2.6.1. Average number of teachers and students using librar Answer after DVV Verification : 822 Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific dat5.1.2Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
2018-19 $2017-18$ $2016-17$ $2015-16$ $2014-15$ 18.59 16.37 20.33 24.62 26.48 Answer After DVV Verification : $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 22.71 18.91 23.12 27.88 35.03 $4.2.6$ Percentage per day usage of library by teachers and students $4.2.6.1$. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification : 708 Remark : Based on the average of log entries of 5 specific dat $5.1.2$ Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
18.5916.3720.3324.6226.48Answer After DVV Verification :2018-192017-182016-172015-162014-1522.7118.9123.1227.8835.034.2.6Percentage per day usage of library by teachers and students4.2.6.1. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification : 708Remark : Based on the average of log entries of 5 specific date5.1.2Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
Answer After DVV Verification :2018-192017-182016-172015-1622.7118.9123.1227.8835.03
2018-192017-182016-172015-162014-1522.7118.9123.1227.8835.034.2.6Percentage per day usage of library by teachers and students4.2.6.1. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification : 7088865.1.2Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
22.7118.9123.1227.8835.034.2.6Percentage per day usage of library by teachers and students4.2.6.1. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification: 708Remark : Based on the average of log entries of 5 specific dat5.1.2Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
 4.2.6 Percentage per day usage of library by teachers and students 4.2.6.1. Average number of teachers and students using librar Answer before DVV Verification : 822 Answer after DVV Verification: 708 Remark : Based on the average of log entries of 5 specific da 5.1.2 Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
Answer after DVV Verification: 708 Remark : Based on the average of log entries of 5 specific dates 5.1.2 Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
5.1.2 Average percentage of students benefited by scholarships, freesh besides government schemes during the last five years
5.1.2.1. Total number of students benefited by scholarships, fr institution besides government schemes year-wise during the last Answer before DVV Verification:
2018-19 2017-18 2016-17 2015-16 2014-15
754 1113 1807 1965 1214
Answer After DVV Verification :
2018-19 2017-18 2016-17 2015-16 2014-15
303 157 140 131 100

counselling offered by the institution during the last five years

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 Answer before DVV Verification:

		2018-19	2017-18	2016-17	2015-16	2014-15			
		1910	1909	1965	1577	1081			
		2018-19	2017-18	2016-17	2015-16	2014-15			
		1755	2017-10	1010	1021	750			
		1/55	655	1212	1031	750			
	Re	mark : Inpu	it accepted a	as per clarifi	ication repo	rt from HE			
.1.5	Avera	ige percenta	ge of studer	nts benefite	d by Vocati	onal Educat	on and Tra	uining (VE	T) during
	last fi	ve years							
	5.1	.5.1. Numb	er of studen	ts attending	g VET year	-wise durin	; the last fi	ve years	
		Answer bet	fore DVV V	erification:					
		2018-19	2017-18	2016-17	2015-16	2014-15			
		788	721	710	610	560			
		Answer Af	ter DVV Ve	erification :					
		2018-19	2017-18	2016-17	2015-16	2014-15			
		2018-19 788	2017-18 721	2016-17 710	2015-16 610	2014-15 560			
2.1	Avera	2018-19 788	2017-18 721	2016-17 710	2015-16 610	2014-15 560	- last five	Vears	
.2.1	Avera	2018-19 788	2017-18 721 age of place	2016-17 710 ment of out	2015-16 610 going stude	2014-15 560 nts during t	e last five	years	
.2.1	Avera 5.2	2018-19 788 age percenta 2.1.1. Numb	2017-18 721 age of places er of outgoi	2016-17 710 ment of out	2015-16 610 going stude placed yea	2014-15 560 nts during th r-wise durin	e last five g g the last fi	years ive years	
.2.1	Avera 5.2	2018-19 788 2.1.1. Numb Answer bet 2018-19	2017-18 721 age of placed er of outgoi fore DVV V 2017-18	2016-17 710 ment of outs ng students rerification: 2016-17	2015-16 610 going stude placed yea 2015-16	2014-15 560 nts during th r-wise durin 2014-15	e last five g the last fi	years ve years	
.2.1	Avera 5.2	2018-19 788 2018-19 788 2018-19 2018-19 524	2017-18 721 age of placed er of outgoi fore DVV V 2017-18 534	2016-17 710 ment of outg ng students Verification: 2016-17 527	2015-16 610 going stude placed yea 2015-16 530	2014-15 560 nts during th r-wise durin 2014-15 471	e last five	years ive years	
.2.1	Avera 5.2	2018-19 788 2018-19 788 2018-19 2018-19 524	2017-18 721 age of placed er of outgoi fore DVV V 2017-18 534	2016-17 710 ment of outs registudents rerification: 2016-17 527	2015-16 610 going stude placed yea 2015-16 530	2014-15 560 nts during th r-wise durin 2014-15 471	e last five	years ive years	
.2.1	Avera 5.2	2018-19 788 2018-19 788 2018-19 2018-19 524 Answer Af	2017-18 721 age of placed er of outgoi fore DVV V 2017-18 534	2016-17 710 ment of outs ng students rerification: 2016-17 527 erification :	2015-16 610 going stude placed yea 2015-16 530	2014-15 560 nts during th r-wise durin 2014-15 471	e last five	years ve years	
.2.1	Avera 5.2	2018-19 788 age percenta 2.1.1. Numb Answer bet 2018-19 524 Answer Af 2018-19	2017-18 721 age of placed er of outgoi fore DVV V 2017-18 534 ter DVV Ve 2017-18	2016-17 710 ment of outs ng students rerification: 2016-17 527 erification : 2016-17	2015-16 610 going stude placed yea 2015-16 530 2015-16	2014-15 560 nts during th r-wise durin 2014-15 471 2014-15	e last five g	years ve years	
.2.1	Avera 5.2	2018-19 788 2018-19 788 2018-19 2018-19 524 Answer Af 2018-19 524	2017-18 721 age of placed er of outgoin fore DVV V 2017-18 534 ter DVV Ve 2017-18 534	2016-17 710 ment of outg ng students verification: 2016-17 527 erification : 2016-17 527	2015-16 610 going stude placed yea 2015-16 530 2015-16 530	2014-15 560 nts during th r-wise durin 2014-15 471 2014-15 471	e last five	years we years	

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

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
21	11	13	10	9

Answer After DVV Verification :

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

5.2.3.2. Number of students who have appeared for the exams year-wise during the last five years Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
24	15	17	13	15

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
24	15	17	13	15

Remark : As TANCET and IELTS have no specific criteria for qualification, these have not been considered.

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

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

Answer before DVV Verification:

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

Answer After DVV Verification :

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

Remark : The HEI given awards are inter college/ university level competitions which are not awards/medals for outstanding performance in sports/cultural activities at national/international level. Hence input updated to zero.

5.3.3	Avera year	age number	of sports an	nd cultural a	ctivities/ co	ompetitions	organised at the institution level per
	5.3 year-v	3.3.1. Numb wise during <u>Answer be</u>	er of sports the last five fore DVV V	and cultura years /erification:	al activities	/ competitio	ons organised at the institution level
		2018-19	2017-18	2016-17	2015-16	2014-15	
		53	41	30	16	34	
		Answer Af	ter DVV V	erification :			
		2018-19	2017-18	2016-17	2015-16	2014-15	
		27	27	22	09	15	
5.4.3	Numl	per of Alum	ni Associat	ion / Chapte	ers meeting	s held durir	g the last five years
	5.4	4.3.1. Numb	er of Alum	ni Associati	ion /Chapter	rs meetings	held year-wise during the last five
	years	Answer be	fore DVV V	/erification:			
		2018-19	2017-18	2016-17	2015-16	2014-15	
		42	38	36	30	28	
		Answer Af	ter DVV V	erification :			_
		2018-19	2017-18	2016-17	2015-16	2014-15	
		4	5	4	1	2	
6.3.2	Avera	age percenta	ge of teach	ers provided	d with finan	cial support	t to attend conferences/workshops and
	towar	ds members	ship fee of p	professional	bodies duri	ing the last	five years
	6.3 towar	3.2.1. Numb ds members	er of teache ship fee of r	ers provided professional	l with finand bodies year	cial support r-wise durin	to attend conferences / workshops and g the last five years
		Answer be	fore DVV V	/erification:	:	1	1
		2018-19	2017-18	2016-17	2015-16	2014-15	_
		203	134	119	48	38	
		Answer Af	ter DVV V	erification :	1	1	1
		2018-19	2017-18	2016-17	2015-16	2014-15	
		152	108	95	9	11	
6.3.3	Avera	age number	of professio	onal develop	oment /adm	inistrative tr	raining programs organized by the
	institu	ution for tea	ching and n	on teaching	g staff durin	g the last fiv	ve years

	201	18-19	2017-18	2016-17	2015-16	2014-15
	48		38	55	30	20
	Ans	wor Aft	or DVV V	rification .		
		18-19	2017-18	2016-17	2015-16	2014-15
	19		11	20	12	5
5.3.4	Average p Program, I years 6.3.4.1. Program, I last five ye	ercenta Refresh . Total 1 Refresh ears	ge of teache er Course, S number of er Course, S	ers attendin Short Term teachers atte Short Term	g professior Course, Fac ending prof Course, Fac	nal developn culty Develo essional dev culty Develo
	Ans	swer bef	ore DVV V $2017-18$	2016-17	2015-16	2014-15
	201	0	176	188	180	170
	159	9			189	172
	Ans 201	9 swer Aft 18-19 1	2017-18	erification : 2016-17	2015-16	2014-15
	Ans 201 161	9 swer Aft 18-19 1	2017-18	erification : 2016-17 178	2015-16 94	2014-15 84
6.4.2	Ans 201 161 Funds / Gr years (not 6.4.2.1. during the Ans	swer Aft 18-19 1 rants rec coverec . Total (e last fiv swer bef	er DVV Ve 2017-18 116 ceived from d in Criteric Grants receive e years (IN Fore DVV V	erification : 2016-17 178 non-gover on III) (INR ived from n R in Lakhs) rerification:	2015-16 94 nment bodic in Lakhs) on-governm	2014-15 84 es, individua
5.4.2	Ans 201 161 Funds / Gr years (not 6.4.2.1. during the Ans 201	swer Aft 18-19 1 rants rec coverec . Total (last fiv swer bef 18-19	er DVV Ve 2017-18 116 ceived from d in Criteric Grants receive e years (IN fore DVV V 2017-18	erification : 2016-17 178 non-gover on III) (INR ived from n R in Lakhs) verification: 2016-17	2015-16 94 nment bodie in Lakhs) on-governm	2014-15 84 es, individua nent bodies, 2014-15
5.4.2	Ans 201 161 Funds / Gr years (not 6.4.2.1. during the Ans 201 4.0	swer Aft 18-19 1 rants rec coverec . Total (last fiv swer bef 18-19	er DVV Ve 2017-18 116 ceived from 1 in Criteric Grants receive e years (IN Fore DVV V 2017-18 306.24	erification : 2016-17 178 non-gover on III) (INR ived from n R in Lakhs) rerification: 2016-17 508.23	2015-16 94 nment bodic in Lakhs) on-governm 2015-16 57.22	2014-15 84 es, individua nent bodies, 2014-15 355.99
5.4.2	Ans 201 201 161 Funds / Gr years (not 6.4.2.1. during the Ans 201 4.0 Ans	swer Aft 18-19 1 rants rec covered . Total (a last fiv swer bef 18-19 04	er DVV Ve 2017-18 116 ceived from d in Criteric Grants receive e years (IN fore DVV V 2017-18 306.24	erification : 2016-17 178 non-gover on III) (INR ived from n R in Lakhs) verification: 2016-17 508.23 erification :	2015-16 94 nment bodic in Lakhs) on-governm 2015-16 57.22	2014-15 84 es, individua nent bodies, 2014-15 355.99
6.4.2	Ans 201 161 Funds / Gr years (not 6.4.2.1. during the Ans 201 4.0 Ans 201	swer Aft 18-19 1 rants rec coverec . Total (e last fiv swer bef 18-19)4 swer Aft 18-19	er DVV Ve 2017-18 116 ceived from d in Criteric Grants receive e years (IN Fore DVV V 2017-18 306.24 cer DVV Ve 2017-18	erification : 2016-17 178 non-gover on III) (INR ived from n R in Lakhs) rerification: 2016-17 508.23 erification : 2016-17	2015-16 94 nment bodic in Lakhs) on-governn 2015-16 57.22 2015-16	2014-15 84 es, individua nent bodies, 2014-15 355.99 2014-15

Answer be 2018-19 19 Answer Af 2018-19 11 Jumber of Speci ears 7.1.10.1. ear-wise during Answer be 2018-19 7	fore DVV V 2017-18 16 Ter DVV V 2017-18 9 fic initiative Number of the last five fore DVV V 2017-18	Verification 2016-17 13 erification : 2016-17 7 es to addres specific ini- e years Verification	2015-16 12 2015-16 8 s locational itiatives to a	2014-15 8 2014-15 5 advantages address locat	
2018-19 19 Answer Af 2018-19 11 Jumber of Speci ears 7.1.10.1. ear-wise during Answer be 2018-19 7	2017-18 16 Ter DVV V 2017-18 9 fic initiative Number of the last five fore DVV V 2017-18	2016-17 13 erification : 2016-17 7 es to addres specific ini- e years /erification	2015-16 12 2015-16 8 s locational itiatives to a	2014-15 8 2014-15 5 advantages address locat	
19Answer Af2018-191111Number of Speciears7.1.10.1.ear-wise duringAnswer be2018-197	16Ter DVV V2017-189fic initiative Number of the last five fore DVV V2017-18	13erification :2016-177es to addresspecific initialityeyears/erification2016 17	12 2015-16 8 s locational itiatives to a	8 2014-15 5 advantages address locat	
Answer Af 2018-19 11 Jumber of Speci ears 7.1.10.1. ear-wise during Answer be 2018-19 7	fic initiative Number of the last five fore DVV V 2017-18	erification : 2016-17 7 es to addres specific ini- e years /erification	2015-16 8 s locational itiatives to a	2014-15 5 advantages address locat	
2018-1911Number of Speciears7.1.10.1.ear-wise duringAnswer be2018-197	2017-18 9 fic initiative Number of the last five fore DVV V 2017-18	2016-17 7 es to addres specific inite years /erification	2015-16 8 s locational itiatives to a	2014-15 5 advantages address locat	
11Jumber of Speciears7.1.10.1.ear-wise duringAnswer be2018-197	9 fic initiative Number of the last five fore DVV V 2017-18	7 es to addres specific inite years /erification	8 s locational itiatives to a	5 advantages iddress locat	
Number of Speci ears 7.1.10.1. ear-wise during Answer be 2018-19 7	fic initiative Number of the last five fore DVV V 2017-18	es to addres specific ini years Verification	s locational tiatives to a	advantages address locat	
2018-19 7	2017-18	2016 17			
7		2010-17	2015-16	2014-15	
L	7	7	7	7	
Answer Af	2017-18	erification : 2016-17	2015-16	2014-15	
onsidered. 2014 or the Planet - T vater DROP - W	-15 1. Thrus ree plantatio ater Conser	st for Earth on to overco vation	Saving 201 ome defores	5-16 Becom tation in Co	
Number of initiat ears (Not addres	ives taken t ssed elsewh	o engage w ere)	ith and cont	tribute to loc	
7.1.11.1. Num uring the last fiv Answer be	ber of initia ve years fore DVV V	atives taken Verification	to engage v	with and con	
2018-19	2017-18	2016-17	2015-16	2014-15	
19	13	10	7	6	
	ter DVV V	erification :			
Answer Af		1	2015-16	2014-15	
Answer Af 2018-19	2017-18	2016-17		-01.10	
	2018-190Remark : As ponsidered. 2014or the Planet - Tor the Planet - Tater DROP - Wumber of initiatears (Not address7.1.11.1. Numuring the last fixAnswer be2018-1919	2018-192017-1801Remark : As per the HEIonsidered. 2014-15 1. Thrueor the Planet - Tree plantationor the Plantationor the Plantationor the Plantation <td c<="" td=""><td>2018-192017-182016-17011Remark : As per the HEI attached superindered. 2014-15 1. Thrust for Earth or the Planet - Tree plantation to overce ater DROP - Water ConservationTumber of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. Number of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. Number of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. Number of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. Number of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. Number of initiatives taken to engage wears (Not addressed elsewhere)7.1.11.1. 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7.1.17	Number of acti Non-Violence a and social cohe 7.1.17.1. Nu conduct, Love, communal harr during the last Answer b	vities conduct and peace); na sion as well a umber of activ Non-Violenc nony and soci five years pefore DVV V	ted for prom ational valu is for observ- vities condu e and peace ial cohesion Verification	notion of un es, human v vance of fun cted for prot ; national v as well as f	iversal valu alues, natio damental du motion of u values, hum for observar	es (Truth, Righteous conduct, Love, nal integration, communal harmony uties during the last five years niversal values (Truth, Righteous an values, national integration, ace of fundamental duties year-wise
	2018-19	2017-18	2016-17	2015-16	2014-15	
	21	18	17	15	12	
	Answer A	After DVV V	erification :			
	2018-19	2017-18	2016-17	2015-16	2014-15	
	6	8	6	5	4	
				6		

2.Extended Profile Deviations

Number of a Answer befo Answer afte Number of J	courses offe ore DVV Ver programs of	red by the in erification : ification : 82	nstitution acr 1127 25	ross all progr	ams during th	ne last five years	\$
Number of J	programs of						
Answer befo	ore DVV V	fered year-w	vise for last	five years			
2018-19	2017-18	2016-17	2015-16	2014-15			
12	12	13	13	13			
Answer Afte	er DVV Ve	rification:	· ·		1		
2018-19	2017-18	2016-17	2015-16	2014-15			
12	12	13	13	13			
Number of s ast five yea	seats earman	rked for rese	erved categor	ry as per GO	/State Govt 1	rule year-wise d	uring the
	nswer befa 2 2 nswer Aft 2018-19 2 2 1 1 1 1 1 2 1 2 1 1 1 1 2 1 2 1 2	Inswer before DVV Ver $2018-19$ $2017-18$ 2 12 Inswer After DVV Ver $2018-19$ $2017-18$ 2 12 Import of seats earmanImport of seats earman	Inswer before DVV Verification: 2018-19 2017-18 2016-17 2 12 13 Inswer After DVV Verification: 2016-17 2018-19 2017-18 2016-17 2 12 13 Image: Second S	Inswer before DVV Verification: 2018-19 2017-18 2016-17 2015-16 2 12 13 13 Inswer After DVV Verification: 2018-19 2017-18 2016-17 2015-16 2 12 13 13 Image: Second State Stat	Inswer before DVV Verification: 2018-19 2017-18 2016-17 2015-16 2014-15 2 12 13 13 13 Inswer After DVV Verification: 2018-19 2017-18 2016-17 2015-16 2014-15 2 12 13 13 13 Inswer After DVV Verification: 2018-19 2017-18 2016-17 2015-16 2014-15 Image: State	Inswer before DVV Verification: $2017-18$ $2016-17$ $2015-16$ $2014-15$ 2 12 13 13 13 Inswer After DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 2 12 13 13 13 Humber of seats earmarked for reserved category as per GOI/State Govt r ast five yearsInswer before DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$	Inswer before DVV Verification: $2018-19$ $2017-18$ $2016-17$ $2015-16$ $2014-15$ 2 12 13 13 13 Inswer After DVV Verification: $2016-17$ $2015-16$ $2014-15$ 2 12 13 13 13 Inswer After DVV Verification: $2016-17$ $2015-16$ $2014-15$ 2 12 13 13 13 Iumber of seats earmarked for reserved category as per GOI/State Govt rule year-wise drive years Image: State S

	284	284	284	284	284					
	Answer Af	ter DVV Ve	rification:							
	2018-19	2017-18	2016-17	2015-16	2014-15					
	505	505	505	505	505					
.3	Number of outgoing / final year students year-wise during the last five years									
	Answer be	$\frac{\text{fore DVV V}}{2017, 18}$	erification:	2015 16	2014 15					
	2018-19	2017-18	2010-17	2015-16	2014-15					
	596	620	631	638	587					
	Answer Af	ter DVV Ve	rification:							
	2018-19	2017-18	2016-17	2015-16	2014-15					
	595	620	631	638	587					
3.2	Total Expe	nditure excl	uding salary	veer wise d						
	-	inunuic exci	uunig salary	year-wise u	uring the las					
	Answer be	fore DVV V	erification:	year-wise d	uring the las					
	Answer be 2018-19	fore DVV V 2017-18	erification: 2016-17	2015-16	2014-15					
	Answer be 2018-19 909.5	fore DVV V 2017-18 717.55	erification: 2016-17 745.92	2015-16 830.03	2014-15 790.62					
	Answer be 2018-19 909.5 Answer Af	fore DVV V 2017-18 717.55	erification: 2016-17 745.92 rification:	2015-16 830.03	2014-15 790.62					
	Answer be 2018-19 909.5 Answer Af 2018-19	fore DVV V 2017-18 717.55 Eter DVV Ve 2017-18	erification: 2016-17 745.92 rification: 2016-17	2015-16 830.03 2015-16	2014-15 790.62 2014-15					