



# **Dr. N.G.P. Institute of Technology**

## **Coimbatore – 641 048**

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Recognized by UGC & Accredited by NAAC

# **Annual Quality Assurance Report**

## **(AQAR)**

### **2019 - 2020**



**Dr. N.G.P. Kalapatti Road, Coimbatore – 641048.**  
**Tamil Nadu, India**

Tel : 0422 – 2369105, 2629362 / Fax : 0422 2369106 /

Email : [info@drngpit.ac.in](mailto:info@drngpit.ac.in)

Web : [www.drngpit.ac.in](http://www.drngpit.ac.in)



**Dr. N.G.P. INSTITUTE OF TECHNOLOGY**

COIMBATORE - 641 048

**ANNUAL QUALITY ASSURANCE REPORT  
(AQAR)**

**2019 – 2020**

**Dr. N.G.P. INSTITUTE OF TECHNOLOGY**

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Accredited by NAAC & Recognized by UGC

Dr. N.G.P. - Kalapatti Road, Coimbatore - 641 048, Tamil Nadu, India

Tel : 0422 - 2369105, 2629362 | Fax : 0422 - 2369106 | Email : [info@drngpit.ac.in](mailto:info@drngpit.ac.in)

Web : [www.drngpit.ac.in](http://www.drngpit.ac.in)

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### Yearly Status Report - 2019-2020

<b>PART A</b>	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	<b>DR. N. G. P. INSTITUTE OF TECHNOLOGY</b>
Name of the head of the Institution	<b>Dr. K. Porkumaran</b>
Designation	<b>Principal</b>
Does the Institution function from own campus	<b>Yes</b>
Phone no/Alternate Phone no.	<b>0422-2369102</b>
Mobile no.	<b>9894101804</b>
Registered Email	<b>principal@drngpit.ac.in</b>
Alternate Email	<b>porkumaran@gmail.com</b>
Address	<b>Dr. NGP Nagar, Kalapatti Road</b>
City/Town	<b>COIMBATORE</b>
State/UT	<b>Tamil Nadu</b>
Pincode	<b>641048</b>
<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Semi-urban</b>
Financial Status	<b>Self financed</b>
Name of the IQAC co-ordinator/Director	<b>Dr. B. Shreeram</b>
Phone no/Alternate Phone no.	<b>04222369145</b>
Mobile no.	<b>9790935543</b>
Registered Email	<b>naac@drngpit.ac.in</b>
Alternate Email	<b>shreeram@drngpit.ac.in</b>

<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)			<a href="https://www.drngpit.ac.in/aqar2018-19.php">https://www.drngpit.ac.in/aqar2018-19.php</a>		
<b>4. Whether Academic Calendar prepared during the year</b>			Yes		
if yes,whether it is uploaded in the institutional website: Weblink :			<a href="https://www.drngpit.ac.in/Academic-Calendar.html">https://www.drngpit.ac.in/Academic-Calendar.html</a>		
<b>5. Accreditation Details</b>					
Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	B	2.81	2015	03-Mar-2015	02-Mar-2020
<b>6. Date of Establishment of IQAC</b>			14-Mar-2015		
<b>7. Internal Quality Assurance System</b>					
<b>Quality initiatives by IQAC during the year for promoting quality culture</b>					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/beneficiaries	
IPR Webinar on A guide to successful IoT Product development		23-May-2020 1		150	
Webinar on IPR for Professional Innovators		05-Jun-2021 1		120	
Recycling And Industrial Waste Management For Sustainable Waste Management		01-Aug-2020 1		145	
Research Seminar on E-content Development In Education Sector		20-Apr-2020 4		150	
Research Seminar On Role Of Environmental Engineers In Sustainable Building Design		09-Jan-2020 1		140	
Research seminar on Research Without Border And Faculty Development		28-Apr-2020 1		180	
Successful Preparation Of Research Proposal		26-Jun-2020 1		128	
Research Seminar on The art of writing a best research paper		24-Jun-2020 1		130	

Institution/ Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.S.Jaganathan	AICTESTTP	AICTE	2020 7	300000
Dr.P.Muthu Priya	AICTESTTP	AICTE	2020 7	300000
<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>				
Upload latest notification of formation of IQAC			<a href="#">View File</a> (Annexure-III:Page No.57)	
<b>10. Number of IQAC meetings held during the year :</b>			<b>4</b>	
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website			<b>Yes</b>	
Upload the minutes of meeting and action taken report			<a href="#">View File</a> (Annexure-I : Page No.59)	
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>			<b>Yes</b>	
If yes, mention the amount			<b>0</b>	
Year			<b>2020</b>	
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>				
<b>1. Reviews and Reforms in Teaching learning 2. Implementation of ERP 3. Strengthening the process of AAA and follow up action 4. Effective Usage of Centre for Teaching and Learning (TLC)</b>				
<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>				
Plan of Action	Achievements/Outcomes			
Implementation of OBE	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			
e-Governance	DHi – Integrated automation software			
Establishment of Centre of	Recording centre was created worth of Rs.13 Lakh and 224 lecture			

Teaching and Learning	video by faculty are uploaded in social media
ICT facility	Provided 10 smart boards, 93 LCD projectors and 72 audio systems towards strengthening teaching learning practices.
A&A Audit	Annually A&A Audits and green audit are conducted.
<b><u><a href="#">View File</a></u> (Annexure-V : Page No.71 )</b>	
<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
<b>Name of Statutory Body</b>	<b>Meeting Date</b>
<b>GC meeting</b>	<b>09-Oct-2020</b>
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
Date of Visit	01-Dec-2018
<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	06-Feb-2019
<b>17. Does the Institution have Management Information System?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	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. notice boards on circulars are made available through students portal in the institutional website. (Link : <a href="http://www.drngpit.ac.in/enoticeboard.php">http://www.drngpit.ac.in/enoticeboard.php</a> ) e circulars are forwarded to official email ids of staff members. Sharing of resource materials is carried out through LMS.

## PART B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

##### 1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

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 to 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. • Monitoring of course delivery and syllabus completion is done through Tutor Ward Meetings, Class Committee Meetings and End-Semester Meeting. • 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. • Feedback on curricular aspects is collected from the stakeholders. • Quality checks of academic programs are carried out through academic and administrative audits.

##### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Durat ion	Focus on employability/entre preneurship	Skill Developme nt
Certification course on Introduction to Video endoscopy	Nil	31/08/2019	9	Employability	Technical
Certification course on Introduction to Patient monitoring	Nil	31/08/2019	9	Employability	Technical
Certification course on Introduction to Patient monitoring	Nil	31/08/2019	9	Employability	Technical
Certification course on Total Station	Nil	20/09/2019	20	Employability	Technical
Certification course on Block chain Technology	Nil	03/06/2019	15	Employability	Technical



Certification course on Robotic Process Automation	Nil	05/08/2019	15	Employability	Technical
Certification course on Augmented Reality and Virtual Reality	Nil	04/12/2019	15	Employability	Technical
Certification course on Deep Learning	Nil	03/02/2020	15	Employability	Technical
Certificate Course on Embedded Systems and Its Applications	Nil	22/07/2019	15	Employability	Technical
Certificate Course on CDAC-IoT Lab Kit	Nil	02/09/2019	15	Employability / entrepreneurship	Technical
Certificate Course on MATLAB Simulink product	Nil	02/09/2019	16	Employability / entrepreneurship	Technical
Certificate Course on Theory of computation	Nil	16/07/2019	10	Employability	Technical
Certificate Course on 3D Max	Nil	09/09/2019	10	Skill development	Technical
MATLAB for Electrical Engineers	Nil	06/07/2019	8	Employability / entrepreneurship	Technical
Arduino for Beginners	Nil	06/07/2019	8	Employability / entrepreneurship	Technical
PSPICE for Electrical Engineers	Nil	21/12/2019	8	Employability / entrepreneurship	Technical
Innovations in Renewable Energy	Nil	08/07/2019	15	Employability	Technical
Flexible Manufacturing System	Nil	08/07/2019	15	Employability	Technical
Development in Thermal Sciences	Nil	15/07/2019	15	Employability	Technical
Industrial Automation and Robotics	Nil	02/09/2019	15	Employability	Technical
Advanced Manufacturing and Material sciences	Nil	02/09/2019	15	Employability	Technical
Geometric Dimensions Tolerancing	Nil	03/02/2020	15	Employability	Technical

Energy Audit in Industries	Nil	03/02/2020	15	Employability	Technical
Conversational English	Nil	12/08/2019	30	Employability	Technical

## 1.2. Academic Flexibility

### 1.2.1. New programmes/courses introduced during the academic year

Programme/ Course	Programme Specialization	Dates of Introduction
MBA	Finance, Marketing, Operation	10/06/2019
ME	Embedded System Technologies, Computer Science and Engineering, Power Electronics and Drives, Engineering Design	10/06/2019
BE	Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Electrical and Electronics Engineering	10/06/2019
BTech	Information Technology	10/06/2019

**View File (Annexure-VI : Page No.72)**

### 1.2.2 . Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electronics and Communication	10/06/2019
BTech	Information Technology	10/06/2019
ME	Embedded System Technologies, Computer Science and Engineering, Power Electronics and Drives, Engineering Design	10/06/2019
MBA	Finance, Marketing, Operation	10/06/2019

### 1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	1422	Nil

<b>1.3. Curriculum Enrichment</b>		
<b>1.3.1.Value-added courses imparting transferable and life skills offered during the year</b>		
<b>Value Added Courses</b>	<b>Date of Introduction</b>	<b>Number of Students Enrolled</b>
Information System Security	09/12/2019	22
Deep Learning and Applications	09/12/2019	97
Coordinate Measuring Machine	09/12/2019	55
Cyber Security	06/02/2020	40
<b>View File (Annexure-VII : Page No.73 )</b>		
<b>1.3.2. Field Projects / Internships under taken during the year</b>		
<b>Project/ Programme Title</b>	<b>Programme Specialization</b>	<b>No. of students enrolled for Field Projects / Internships</b>
BE	BME	42
BE	CIVIL	56
BE	CSE	21
BTech	IT	165
BE	ECE	298
BE	EEE	155
BE	MECH	19
MBA	MBA	95
<b>View File (Annexure-VIII : Page No.75 )</b>		
<b>1.4. Feedback System</b>		
<b>1.4.1. – Whether structured feedback received from all the stakeholders.</b>		
Students	Yes	
Teachers	Yes	
Employers	Yes	
Alumni	Yes	
Parents	Yes	

**1.4.2. – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)**

**1.4.2 Feedback Obtained**

The feedback mechanism adapted by our institution covering curriculum, facilities and faculty. A feedback policy has been framed and adapted in the institution. It is made available in the institution website Link: <http://www.drngpit.ac.in/feedback-form.php>. The institution has framed the following feedback collected from all stakeholders - Students feedback on course curriculum - Faculty feedback on curriculum - Graduate exit survey - Alumni survey - Employer Survey - Parents Feedback Form

**CRITERION II – TEACHING- LEARNING AND EVALUATION**

**2.1.. Student Enrolment and Profile**

**2.1.1. Demand Ratio during the year**

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	BME	120	273	115
BE	CSE	120	347	115
BE	CIVIL	60	49	21
BE	ECE	120	205	106
BE	EEE	60	102	44
BTech	IT	60	182	60
BE	MECH	120	165	52
MBA	MBA	120	193	113
ME	CSE, EST, PE, ED	72	22	5

**View File (Annexure-IX : Page No.96)**

**2.1 Catering to Student Diversity**

**2.2.1. – Student - Full time teacher ratio (current year data)**

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1727	223	120	11	12

<b>2.3.Teaching - Learning Process</b>					
2.3.1. Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)					
<b>Number of Teachers on Roll</b>	<b>Number of teachers using ICT (LMS, e-Resources)</b>	<b>ICT Tools and resources available</b>	<b>Number of ICT enabled Classrooms</b>	<b>Number of smart classrooms</b>	<b>E-resources and techniques used</b>
143	143	15	48	10	16
<a href="#"><u>View File of ICT Tools and resources</u></a>					
<a href="#"><u>View File of E-resources and techniques used</u></a>					
<b>(Annexure-X : Page No.97)</b>					
<b>2.3.2. Students mentoring system available in the institution? Give details. (maximum 500 words)</b>					
<p>Yes, Students monitoring system available in the institution. 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, peer mentors, alumni, placement coordinators, professional counsellors, industry mentors and placement counsellors provide guidance and mentoring for the students. During the pandemic lockdown period TWM / CCM has been conducted online for mentoring the students based on their performance in CIE. In addition to this, based on the recommendation from HoDs in conjunction with Class advisor students are provided with psychiatric counseling in online mode. Type of mentoring: • Academic, • Professional / Career and • Personal Guidance. Effectiveness of Academic Guidance It helps the students to: • Understand and complete degree requirements. • Sustain academic performance. • Understand and follow the institutional policies and procedures. Encourage the use of resources and services available on campus to assist in achieving academic, personal and career goals. • Outcomes of Professional and Career Guidance Understand the individual career choices, areas of strength and areas of improvement. • Offer tailor-made courses based on the interests, aptitude needs and personality. • Augment the capacities of students that contribute to enhanced jobs, skills and growth. • Map a long-term career trajectory that keeps them attuned to the corporate needs. Benefits of Personal Guidance Foster resiliency after personal, social and other similar problems. Uphold the sense of self-empowerment. Overcome any kind of addictive behaviours and regain perspective.</p>					
<b>Number of students enrolled in the institution</b>	<b>Number of fulltime teachers</b>		<b>Mentor : Mentee Ratio</b>		
1950	143		14		

<b>2.4. Teacher Profile and Quality</b>				
<b>2.4.1. Number of full time teachers appointed during the year</b>				
<b>No. of sanctioned positions</b>	<b>No. of filled positions</b>	<b>Vacant positions</b>	<b>Positions filled during the current year</b>	<b>No. of faculty with Ph.D</b>
143	143	Nil	23	47
<b>2.4.2. Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )</b>				
<b>Year of Award</b>	<b>Name of full time teachers receiving awards from state level, national level, international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>	
2019	Dr.K.Porkumaran	Principal	Contributing as a Proctor in IEEE Xtreme 13.0 programming competition	
2019	Dr.C.Vivekanandhan	Professor	Appreciation for NPTEL Online Exam Certification	
2019	Dr.S.Prabakar	Professor	IEEE senior member	
2020	Dr.K.Gayathri Devi	Professor	Appreciation award for receiving certified Virtual Classroom Teacher recognition	
2019	Dr.S.Jaganathan	Professor	Awarded for Active SPOC based on candidate participation	
2019	Mr. G. Ramesh Kumar	Assistant Professor	Appreciation for NPTEL Online Exam Certification	
2019	Mr.Mani Deepak Choudhry	Assistant Professor	NPTEL - Elite Certificate - Stress Management	
<b>View File (Annexure-XI : Page No.99)</b>				

## 2.5. Evaluation Process and Reforms

2.5.1. Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
MBA	631	3/2	14/12/2019	29/01/2020
MBA	631	1/1	30/12/2019	29/01/2020
BTech	205	7/4	02/12/2019	29/01/2020
BTech	205	5/3	21/11/2019	29/01/2020
BTech	205	3/2	23/11/2019	29/01/2020
BTech	205	1/1	21/12/2019	29/01/2020
BE	121	7/4	02/12/2019	29/01/2020
BE	121	5/3	23/11/2019	29/01/2020
BE	121	3/2	20/11/2019	29/01/2020
BE	121	1/1	21/12/2019	29/01/2020

**View File (Annexure-XII : Page No.101 )**

### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

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 Academic Development Cell(ADC). As per the guideline the following reforms has been carried out for effectively conducting CIE during the current AY: 1. Selection of online platform – Edmodo for conduction on CIE during the pandemic lockdown. 2. Creation of class groups with students, faculty, mentor and HoD. 3. Uploading question paper as per specified format into EDMODO. 4. Scheduling and conduction of model examination through online mode. 5. Evaluation of answer scripts and uploading internal assessment marks in Institutes and university portal. 6. Review of results

### 2.5.3 . Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Being an affiliated Institute, the university schedule is reflected in the Institutes own academic calendar. The academic calendar containing plans for curricular and co-curricular activities based on the available working/ teaching days as per university norms are prepared by IQAC. It

also includes the process of CIE while designing the academic calendar of the Institute. Based on Institutes academic calendar, department prepares its own academic calendar showcasing events planned by individual departments. The academic calendar is then made known to all faculty before the commencement of the semester. The process of CIE included the academic calendar of the Institute are listed below: Theory Courses: Display of the Scheduling of internal examination dates, seating arrangements, hall invigilators and squad duty list for every examination.

Submission of question paper for the internal examination in the prescribed pattern at ADC. The date of exams prescribed in the academic calendar is followed by every department for conducting the internal exam. Internal Exam marks of each courses are entered in the Key\_in campus portal for performance analysis. Result review meeting are conducted with Faculty, HoD and Principal. Every department conducts seminar presentation by the student 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 has been submitted to the Principal.

## 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 in website of the institution (to provide the weblink)**

<https://www.drngpit.ac.in>

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
121	BE	BME	59	57	97
106	BE	ECE	92	83	90
105	BE	EEE	29	28	97
104	BE	CSE	60	60	100

**[View File \(Annexure-XIII : Page No.103\)](#)**

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://www.drngpit.ac.in/feedback-form.php>



<b>CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION</b>				
<b>3.1 . Resource Mobilization for Research</b>				
<b>3.1.1 . Research funds sanctioned and received from various agencies, industry and other organizations</b>				
<b>Nature of the Project</b>	<b>Duration</b>	<b>Name of the funding agency</b>	<b>Total grant sanctioned</b>	<b>Amount received during the year</b>
Minor Projects	90	Oragle Solutions	0.35	0.35
Major Projects	2	ICMR	1	1
Minor Projects	90	Oragle Solutions	0.35	0.35
<b>View File (Annexure-XIV : Page No.104)</b>				
<b>3.2 . Innovation Ecosystem</b>				
<b>3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year</b>				
<b>Title of workshop/seminar</b>		<b>Name of the Dept.</b>	<b>Date</b>	
Research Seminar on Certification On Medical Device Manufacturing Regulations And Guidelines		BME	10/07/2019	
Engineers In Sustainable Building Design”		CIVIL	09/01/2020	
Research Seminar on The art of writing a best research paper		CSE	24/06/2020	
Research Seminar on Energy Audition In Industries		MECH	16/05/2020	
Research Seminar on Data Science and Big Data Analytics		IT	27/09/2019	
Research Seminar on Next Generation Transportation Systems (E-Vehicle)		EEE	12/06/2020	
<b>View File (Annexure-XV : Page No.108)</b>				

<b>3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year</b>					
<b>Title of the innovation</b>	<b>Name of Awardee</b>	<b>Awarding Agency</b>	<b>Date of award</b>	<b>Category</b>	
Best Faculty Award	Dr.P.Sivaprakash	Nature Science Foundation	13/01/2020	Best Faculty Award	
Senior member	Dr.S.Prabakar	IEEE	23/11/2019	Senior member	
Elite Certificate	Dr.C.Vivekanandan	NPTEL	24/11/2019	Elite Certificate	
Best Faculty Award	Dr.P.Sivaprakash	Nature Science Foundation	13/01/2020	Best Faculty Award	
<b>View File (Annexure-XVI : Page No.111)</b>					
<b>3.2.3. No. of Incubation centre created, start-ups incubated on campus during the year</b>					
<b>Incubation Center</b>	<b>Name</b>	<b>Sponsered By</b>	<b>Name of the Start-up</b>	<b>Nature of Start-up</b>	<b>Date of Commencement</b>
<b>3.3 – Research Publications and Awards</b>					
<b>3.3.1. Incentive to the teachers who receive recognition/awards</b>					
<b>State</b>		<b>National</b>		<b>International</b>	
<b>0</b>		<b>30</b>		<b>4</b>	
<b>3.3.2. Ph. Ds awarded during the year (applicable for PG College, Research Center)</b>					
<b>Name of the Department</b>			<b>Number of PhD's Awarded</b>		
BME			2		
CIVIL			1		
ECE			3		
EEE			4		
IT			2		
MECH			2		
S and H			2		
MBA			1		

<b>3.3.3. Research Publications in the Journals notified on UGC website during the year</b>						
Type	Department	Number of Publication	Average Impact Factor (if any)			
International	BME	8	1.1			
International	CSE	13	1.1			
International	ECE	22	1.1			
<b>View File (Annexure-XVII : Page No.113)</b>						
<b>3.3.4. Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year</b>						
Department		Number of Publication				
ECE		22				
CIVIL		21				
CSE		10				
ECE		22				
<b>View File (Annexure-XVIII : Page No.11 4)</b>						
<b>3.3.5. Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index</b>						
Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Compressive Sensing-Based	Dr.C.Ram kumar	IETE Journal	2019	Nil	Department	1
Diagnosis of Diabetic Retinopathy from Fundus Image – A Sparse Approach		of Research			of BME Dr.N.G.P. Institute of Technology Coimbatore India	
Efficient pattern matching algorithm for security and Binary Search Tree (BST) based memory system in Wireless Intrusion Detection System (WIDS)	Dr.S.Ayyasamy	Computer Communication	2020	1	Department of CSE Dr.N.G.P. Institute of Technology Coimbatore India	98
Follow-up studies in COVID-19 recovered patients - Is it mandatory?	Dr.P.Sivaprakash	Science of the Total Environmen	2020	1	Department of MECH Dr.N.G.P. Institute of Technology Coimbatore India	224
<b>View File (Annexure-XIX : Page No.115)</b>						

**3.3.6. h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)**

Title of the Paper	Name of Author	Title of journal	Year of publication	h- index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Friction stir processing of Al3Ni intermetallic particulate reinforced cast aluminum matrix composites: Microstructure and tensile properties	Dr.K.Kalaiselvan	Journal of Materials Research and Technology	2020	34	1	Dr.NGPIT
Video Traffic Analysis Over LEACH-GA Routing Protocol in a WSN	Dr.P.Sivakumar	Procedia Computer Science	2020	59	1	Dr.NGPIT

**View File (Annexure-XX : Page No.126)**

**3.3.7. Faculty participation in Seminars/Conferences and Symposia during the year :**

Number of Faculty	International	National	State	Local
Presented papers	2	3	Nil	Nil
Attended/Seminars/Workshops	119	1039	7	Nil

**View File (Annexure-XXI : Page No.139)**

**3.4. Extension Activities**

**3.4.1. Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year**

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Campaign on Coronavirus Awareness Safety Measures	KMCH-Coimbatore, Healthcare Club NSS, Dr. N.G.P IT	4	75

vigilance Awareness programme	IEEE Student Branch of Dr.N.G.P. IT and Indian Bank, Kalapatti	1	40
Wall of Humanity	Govt Nursery School, Cheyur , Avinashi and Rotaract Club of Dr.NGPIT	10	148
National Immunization Day 2020	Rotary Club of Coimbatore Satellite and Rotaract Club of Dr.NGPIT	3	21
Awareness Program on Drug Abuse	UYIR Club of DRNGPIT Friends of Police, Coimbatore	2	10

**View File (Annexure-XXII : Page No.140)**

**3.4.2. Awards and recognition received for extension activities from Government and other recognized bodies during the year**

<b>Name of the activity</b>	<b>Award/Recognition</b>	<b>Awarding Bodies</b>	<b>Number of students Benefited</b>
Distribution of face mask, sanitizer to Public	Certificate of Appreciation	Rotary Club of Coimbatore Satellite, Coimbatore	20
Clean India	Certificate of Appreciation	Swachh Bharat	15
Blood Donation Camp	Certificate of Appreciation	KMCH	20
Joy of Giving	Certificate of Appreciation	Universal Peace Foundation, Coimbatore	180
Road safety Awareness Program	Certificate of Appreciation	Uyir Club	13

**View File (Annexure-XXIII : Page No.143)**

**3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year**

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Blood Donation Camp	IMA MASONIC ROTARY MIDTOWN MAHAVEERS BLOOD BANK (TRUST), NSS RRC of DR NGPIT	Blood Donation Camp	2	135
Awareness Programme	Indian Red Cross Society District Branches YRC DR NGPIT	Centenary Celebrations of Indian Red Cross Society	1	4
Blood Donation Camp	KMCH-Coimbatore Youth Red Cross	Blood Donation Camp1	1	72
Awareness Programme	Rotary Coimbatore Central and Nizhal Maiyam, Coimbatore and Rotaract Club of Dr.NGPIT	Amudhu Pagirvom Hand Pinch of Rice.	10	150

**View File (Annexure-XXIV : Page No.144 )**

**3.5 . Collaborations**

**3.5.1 . Number of Collaborative activities for research, faculty exchange, student exchange during the year**

Nature of activity	Participant	Source of financial support	Duration
Student Exchange	PRADEEPKUMAR B NAGARJUNAA M T H ARUN S	Schneider Electric India Pvt., Ltd., Coimbatore	117
Research	Aswini S S Kiruthika R Pooja G Sandhya S	Dr. N.G.P IT	79

Research Project	C.S.Manju, Preethicca P.A Rubbika.P SounderRajan.S Venkatesh.M	TNSCST	150
Student Exchange	MOHAMMED RAFID K GOKULAKRISHNAN R GOWTHAM S	RS Engineering, Coimbatore	137

**View File (Annexure-XXV : Page No.147)**

**3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year**

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Research	Industry Project	Mrudhan Medical Systems Old No : 5 , New No : 3 / 154, main Road , Rajaji Nager, Madipakkam, Chennai, Tamil Nadu 600091 098409 34041	06/01/ 2020	13/03/2020	2
Internship	Internship Training	BANGLORE MEDICAL SYSTEM #38,13th Cross, Lakshmaiah Block, Ganganagar, Bangalore - 560024, India 080 23638476, 23636315 , 23636316 info@bmsindia.in	25/11/ 2019	30/11/2019	5
Field-Trip	Industrial Visit	Caregenic Medical Services,1802, MR Classic Apartments, Parappana Agrahara Main Rd, AECS Layout - A Block, Singasandra, Bengaluru, Karnataka 560068 08048111366 caregenic@gmail.com	15/08/ 2019	17/08/2019	60

**View File (Annexure-XXVI : Page No.149)**

<b>3.5.3 . MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year</b>			
<b>Organisation</b>	<b>Date of MoU signed</b>	<b>Purpose/Activities</b>	<b>Number of students/teachers participated under MoUs</b>
National Cyber Safety Security Standards, New Delhi	28/11/2019	Established National Cyber Defense Standards, New Delhi Research Centre (NCDRC) – Artificial Intelligence and conducted training	62
Salzer Electronics Ltd., Coimbatore	12/09/2019	internship, on-the-job training, project work, research Activities	62
National Institute of Personnel Management - Coimbatore	27/07/2019	To enrich the knowledge in HR areas and to get career support.	345
Faraday Ozone Products Private Limited, Coimbatore	04/10/2019	To have better industrial connect.	110
Quality circle Forum of India	17/02/2020	To enrich the knowledge in the quality aspects of Business.	110
<b>View File (Annexure-XXVII : Page No.161)</b>			
<b>CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES</b>			
<b>4.1. Physical Facilities</b>			
<b>4.1.1. Budget allocation, excluding salary for infrastructure augmentation during the year</b>			
<b>Budget allocated for infrastructure augmentation</b>		<b>Budget utilized for infrastructure development</b>	
<b>242.1</b>		<b>206.2</b>	
<b>4.1.1 – Details of augmentation in infrastructure facilities during the year</b>			
<b>Facilities</b>		<b>Existing or Newly Added</b>	
Campus Area		Existing	
Class rooms		Existing	
Laboratories		Existing	
Seminar Halls		Existing	
Classrooms with LCD facilities		Existing	



Seminar halls with ICT facilities	Existing
Video Centre	Existing
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Others	Existing

**View File (Annexure-XXVIII : Page No.162)**

#### 4.2. Library as a Learning Resourc

4.2.1. Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Campes ilib	Fully	6.4.10	2007

#### 4.2.2. Library Services

	Existing		Newly Added		Total	
Text Books	38593	10383242	1211	368803	39804	10752045
Reference Books	1220	2149974	12	19671	1232	2169645
e-Books	Nil	Nil	3742	Nil	3742	Nil
Journals	127	268508	59	184120	186	452628
e-Journals	Nil	Nil	5490	1235245	5490	1235245
Digital Database	Nil	Nil	1	13570	1	13570
CD & Video	3555	Nil	145	Nil	3700	Nil
Library Automation	1	25000	Nil	Nil	1	25000
Weeding (hard & soft)	298	84306	14	3284	312	87590
Others (specify)	3194	Nil	21	Nil	3215	Nil

**View File (Annexure-XXIX : Page No.163)**

**4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc**

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
---------------------	--------------------	---------------------------------------	-----------------------------

**View File (Annexure-XXX : Page No.164)**

**4.3 – IT Infrastructure**

**4.3.1 – Technology Upgradation (overall)**

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1121	26	88	1	932	109	80	88	0
Added	128	0	0	0	110	10	6	0	0
Total	1249	26	88	1	1042	119	86	88	0

**4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)**

**88 MBPS/ GBPS**

**4.3.3 – Facility for e-content**

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Netrack 17U AV Rack	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Yamaha MG 12xU Mixing Console	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Shure SVX1Q16 Headworn Mike	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Shure PG58 Handheld Wireless Mike	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Shure SUX4 Antenna Density Receiver	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>

Shure MX418D/C Podium Microphone	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Bose Free Space DS100SE Surface Mount Loud Speaker	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Bose Powermax PX3 Power Amplifier	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Shure MX418D/C Podium Microphone	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Bose Free Space DS100SE Surface Mount Loud Speaker	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Bose Powermax PX3 Power Amplifier	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Sony VPL-PHZ10 Color Data Projector with Remote	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Suvira HD Motorized Screen 170" with Remote	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Wacom DTH-2242 Interactive Pen Display	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Gefen EXT-WHD-1080P-SRS Wireless Transceiver with Remote	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
VSTOR Premium HD Capture Box	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Black magic design Intensity Shuttle	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>
Kramer VP440 Presentation Switcher Scaler	<a href="https://www.drngpit.ac.in/center-teaching-learning.php">https://www.drngpit.ac.in/center-teaching-learning.php</a>

#### **4.4 – Maintenance of Campus Infrastructure**

##### **4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year**

<b>Assigned Budget on academic facilities</b>	<b>Expenditure incurred on maintenance of academic facilities</b>	<b>Assigned budget on physical facilities</b>	<b>Expenditure incurred on maintenance of physical facilities</b>
94.04	89.82	108.59	101.01

**4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)**

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.

<https://www.drngpit.ac.in/naac-criteria/c4-4.4.2.php>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institutional Scholarship	519	5536250
Financial Support from Other Sources			
a) National	Freeships/ Scholarship Provided by government	536	7813540
b)International	Freeships/ Scholarship Provided by government	Nil	0

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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Bridge Course	15/07/2019	2185	Dr NGP Institute of Technology
YOGA	08/07/2019	1013	Dr NGP Institute of Technology

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#### 5.1.3 . Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Seminar on "How to Crack GATE Examination	200	Nil	Nil	Nil
2019	Seminar on "Preparedness for Uniform Forces Exam"	200	Nil	Nil	Nil
2019	Career Awareness Programme	Nil	200	Nil	Nil

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<b>5.1.4. Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year</b>					
<b>Total grievances received</b>		<b>Number of grievances redressed</b>		<b>Avg. number of days for grievance redressal</b>	
Nil		Nil		Nil	
<b>5.2 – Student Progression</b>					
<b>5.2.1. Details of campus placement during the year</b>					
<b>On campus</b>			<b>Off campus</b>		
<b>Name of organizations visited</b>	<b>Number of students participated</b>	<b>Number of students placed</b>	<b>Name of organizations visited</b>	<b>Number of students participated</b>	<b>Number of students placed</b>
Tata Consultancy Services	45	5	Capgemini Technology Services India Limited	10	1
<b>View File (Annexure-XXXIV : Page No.180)</b>					
<b>5.2.2. Student progression to higher education in percentage during the year</b>					
<b>Year</b>	<b>Number of students enrolling into higher education</b>	<b>Programme graduated from</b>	<b>Department graduated from</b>	<b>Name of institution joined</b>	<b>Name of programme admitted to</b>
2019	10	BE	ECE	PSG College of Technology, Coimbatore	M.E. (VLSI Design)
2019	2	BE	CSE	Amrita Vishwa Vidyapeetham school of engineering, Coimbatore	M.Tech cybersecurity Systems and Networks
2019	4	BE	CIVIL	National Institute of Constructional	Constructional Management and Research

				Management and Research, Pune-411045	
2019	7	BE	BME	Politecnico Di Milano, Italy	Master of Science (Laurea Magistrale) Biomedical Engineering

[View File \(Annexure-XXXV : Page No.205\)](#)

**5.2.3. Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)**

Items	Number of students selected/ qualifying
Civil Services	1
Any Other	19

[View File \(Annexure-XXXVI : Page No.208\)](#)

**5.2.4. Sports and cultural activities / competitions organised at the institution level during the year**

Activity	Level	Number of Participants
Badminton - Boys 19	Institution	12
Quiz 19	Institution	12

[View File \(Annexure-XXXVII : Page No.209\)](#)

**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)**

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	THIRD	National	1	Nil	710717105025	A.JESU BINAH Team
2019	FOURTH	National	1	Nil	710717105043	K.PARTHIBAN & Team

2019	FOURTH	National	1	Nil	710718106003	V. AJITH KUMAR & Team
2019	BRONZE	National	1	Nil	710717105041	S.NITHISH KUMAR
2019	BRONZE	Nil	1	Nil	710717114011	ANTONY PRAKASH

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**5.3.2. Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)**

Dr.NGP.IT 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.NGP.IT 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 Intra-collegiate meet organized by the association, professional societies



<p>and chapters. 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.</p> <p>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.</p>
<b>5.4 – Alumni Engagement</b>
5.4.1 – Whether the institution has registered Alumni Association?
<b>Yes</b>
<b>5.4.2 – No. of enrolled Alumni:</b>
<b>5080</b>
<b>5.4.3 – Alumni contribution during the year (in Rupees) :</b>
<b>648000</b>
<b>5.4.4 – Meetings/activities organized by Alumni Association :</b>
<b>71</b>

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 . Institutional Vision and Leadership**

#### **6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)**

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 HoDs and 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 equipment, library books, enhanced infrastructural facilities, facility to work beyond college hours, curricular enrichment etc. with the appropriate approval from management. CASE STUDY 1: Preparation of working committees: 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. Activity: TP 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 TP 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 TP 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, and 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.

**6.1.2 – Does the institution have a Management Information System (MIS)?**

**Yes**

**6.2 – Strategy Development and Deployment**

**6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):**

Strategy Type	Details
Admission of Students	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.
Industry Interaction / Collaboration	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 Teknologi 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.
Human Resource 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

	<p>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.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>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.</p>
<p>Teaching and Learning</p>	<p>The Institute follows the guidelines of state government and affiliating University for admissions in UG and PG programmes. 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.</p>
	<p>The Institute follows a strong evaluation process through ADC that ensures transparency and robustness. The ADC conducts CIE</p>

Examination and Evaluation	<p>periodically in line with the academic calendar of Anna University and the Institution, ensuring transparency 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 processes gradually increase in success rate is achieved.</p>
Research and Development	<p>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.</p>
Curriculum Development	<p>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.</p>

<b>6.2.2 – Implementation of e-governance in areas of operations:</b>				
<b>E-governance area</b>		<b>Details</b>		
Planning and Development		DHi – Integrated automation software		
Administration		Backbone Software -HR Module Payroll AOSTA Software Technologies DHi – Integrated automation software		
Finance and Accounts		Tally ERP 9.2 DHi – Integrated automation software		
Student Admission and Support		Learning Management System, Dr.N.G.P.IT NAD - Students Certificate Verification docswallet - Digital Locker myeasydocs - Authorized Partner of DigiLocker Online Grievance Redressal - Dr.N.G.P.IT Key-in Campes - (Admission Module, Billing, Library Utilization) Logic Launch Technologies DHi – Integrated automation software Heraizen Technologies Private, Bangalore		
Examination		Key-in Campes - (Admission Module, Billing, Library Utilization) Logic Launch Technologies, DHi – Integrated automation software Heraizen Technologies Private, Bangalore		
<b>6.3. Faculty Empowerment Strategies</b>				
<b>6.3.1 . Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year</b>				
<b>Year</b>	<b>Name of Teacher</b>	<b>Name of conference/ workshop attended for which financial support provided</b>	<b>Name of the professional body for which membership fee is provided</b>	<b>Amount of support</b>
2020	Dr.K.Porkumuran	Nil	IEEE	5690
2020	Dr.C.Vivekanandan	NPTEL online certification on Advanced Linear continuous control system: application with matlab programming and simulink	Nil	1000

2020	Dr.P.Muthupriya	NPTEL-AICTE (Online) FDP on Geotechnical Engineering Laboratory	Nil	1000
2019	Dr.S.V.Sudha	Digital Teaching Techniques	Nil	650
2020	Dr.K.Gayathri Devi	NPTEL AICTE Faculty Development Programme on "Patent Drafting for Engineers"	Nil	1000
2019	Dr.S.Sankar Ganesh	IIT Pals Inno WAH Project	Nil	684

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**6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year**

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Radiation Technology and Wearable Devices	Nil	11/06/2019	13/06/2019	23	Nil
2020	Faculty Development Program on Curriculum Design in the Context of Outcome Based Education	Nil	27/04/2020	02/05/2020	10	Nil
2019	FDP on Data Science Big Data Analytics Using R	Nil	17/06/2019	21/06/2019	13	Nil
2019	CSIR Sponsored research seminar on Photonics for Medical Diagnosis	Nil	03/07/2019	03/07/2019	4	Nil

2019	Three Day FDP on Emerging Trends in Smart Grid, PLC training Assessment Procedures	Nil	10/06/2019	12/10/2019	15	Nil
2020	Recent Advancement In Mechanical Engineering	Nil	21/05/2020	24/05/2020	21	Nil

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**6.3.3. No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year**

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Three Day FDP on Emerging Trends in Smart Grid, PLC training Assessment Procedures	12	06/10/2019	08/10/2019	3
Faculty Development Programme on“ Future Trends In Electronics”	24	02/05/2020	04/05/2020	3
Faculty Development Programme on“ Future Trends In Electronics”	14	29/10/2019	03/11/2019	6
Faculty Development Programme on CE8601 Design of Steel Structural Elements	10	02/12/2019	07/12/2019	6

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**6.3.4. Faculty and Staff recruitment (no. for permanent recruitment):**

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
143	143	40	40



<b>6.3.5. Welfare schemes for</b>		
<b>Teaching</b>	<b>Non-teaching</b>	<b>Students</b>
Insurance Benefits, Medical Leave, Maternity Leave, Sabbatical Leave, Remuneration for Faculty, On-Duty, Earned Leave, Fee concessions for their wards in the NGP group of institutions, Gift Voucher for festival	Insurance Benefits, Medical Leave, Maternity Leave, On- Duty, Free Bus facility, Fee concessions for their wards in the NGP group of institutions, Gift Voucher for festival	Insurance Benefits, Medical Leave, Sports Travel Allowance Concession, On- Duty, Fee concessions for their Friends and Relatives
<b>6.4 . Financial Management and Resource Mobilization</b>		
<b>6.4.1. Institution conducts internal and external financial audits regularly (with in 100 words each)</b>		
<p>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.</p> <p>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: Book Keeping : Double entry Book keeping Systems : Tally ERP SERVER – Version 6.5.4 Accounting Standard : Follow with Indian Accounting Standards Qualification Experience : Graduate in B Com, M Com, MBA with more than 30 years of experience. Auditors : CA with 40 years of experience Internal Audit : We have a month end book closing mechanism. Monitor Day to Day accounting activities. Monitor legal requirements.</p> <p>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 /</p>		

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.

**6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)**

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Dr NGP IT - Dr. Sarvepalli Radhakrishnan Chair, Dr. Abdul Kalam Chair, UTP, Malaysia, LiveWire, Coimbatore	2043691	Establishment of Research Facilities and Development of Prototypes

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**6.4.3 – Total corpus fund generated**

**2043691**

**6.5 – Internal Quality Assurance System**

**6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Tier I Institutions	Yes	Auditing Cell
Administrative	Yes	TUV India Private Limited and Tier I Institutions	Yes	Auditing Cell

<b>6.5.2 – Activities and support from the Parent – Teacher Association (at least three)</b>					
1. Feedback on curriculum to meet the standards 2. Advisory Board members - Active participation and the interest on Engineering Field 3. Innovative Teaching methods and Infrastructural augments that fulfill their needs					
<b>6.5.3 – Development programmes for support staff (at least three)</b>					
1. Training Program on Understanding ICMED Certification and New Medical Device Rules, 2017 for Medical Device Manufacturers 2. Orientation Program on Microsoft Office 3. Workshop on Engine Assembly Dismantling 4. Two days Workshop on Advances in Welding and Non Destructive Testing					
<b>6.5.4 – Post Accreditation initiative(s) (mention at least three)</b>					
1. Accreditation Status, Awards and Recognitions : Participation in NIRF 2. MoU signed 3. IPR 4. Centre for Skill Development 5. Green practices -STP -RWH -Solar -Replacement of LED 6. Internet and bandwidth					
<b>6.5.5 – Internal Quality Assurance System Details</b>					
a) Submission of Data for AISHE portal			Yes		
b)Participation in NIRF			Yes		
c)ISO certification			No		
d)NBA or any other quality audit			Yes		
<b>6.5.6 – Number of Quality Initiatives undertaken during the year</b>					
Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	IPR Webinar on A guide to successful IoT Product development Patenting	23/05/2020	23/05/2020	23/05/2020	150
2020	Webinar on IPR for Professional Innovators	05/06/2020	05/06/2020	05/06/2020	120

2019	Recycling And Industrial Waste Management For Sustainable Waste Management	01/08/2019	01/08/2019	01/08/2019	145
2020	Research Seminar on E-content Development In Education Sector	20/04/2020	20/04/2020	24/04/2020	150
2020	Research Seminar On "Role Of Environmental Engineers In Sustainable Building Design"	01/01/2020	01/01/2020	01/01/2020	140
2020	Research seminar on "Research Without Border And Faculty Development"	28/04/2020	28/04/2020	28/04/2020	180
2020	Research Seminar on "Successful Preparation Of Research Proposal"	26/06/2020	26/06/2020	26/06/2020	128
2020	Research Seminar on The art of writing a best research paper	24/06/2020	24/06/2020	24/06/2020	Nil

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**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

**7.1 – Institutional Values and Social Responsibilities**

**7.1.1. Gender Equity (Number of gender equity promotion programmes organize**

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Equality in Academia: Bad News from the Trenches and Some Possible Solution	10/07/2019	10/07/2019	30	70
Gender Awareness – My Femininity	16/08/2019	16/08/2019	50	70
Pipelines, Pathways and Institutional Leadership	09/09/2019	09/09/2019	65	50
Gender Roles	10/10/2019	10/10/2019	40	60
Seminar on Gender Sensitization	21/01/2020	21/01/2020	30	50
Guest Lecture on Gender Equality	21/02/2020	21/02/2020	25	50
Workshops on Human Rights and Laws	08/03/2020	08/03/2020	35	65
Gender Equality in the Academy: The Pipeline	27/03/2020	27/03/2020	45	55

**7.1.2. Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:**

**Percentage of power requirement of the University met by the renewable energy sources**

**27.50**

**7.1.3. Differently abled (Divyangjan) friendliness**

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil

Rest Rooms	Yes	1
Scribes for examination	No	1
Special skill development for differently abled students	Yes	1
Any other similar facility	Yes	1

#### 7.1.4. Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	Nil	25/07/2019	1	E Governance Demonstration program through Open Source Club	Problem in E Governance	97
2019	1	Nil	12/09/2019	1	Pollution Control Awareness	Addressed Various Issues Related to Pollution	88
2019	1	Nil	30/10/2019	6	Effective use of online Banking to customers of Indian Bank, Kalapatti Branch by business line club	Created Awareness on Moral Values	120

2019	1	Nil	14/10/2019	1	Blood Donation Camp through YRC	Motivated the values of Blood Donation	100
2020	1	Nil	19/02/2020	1	Entrepreneurship Awareness Camp	Created Awareness towards self employment	110

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**7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders**

<b>Title</b>	<b>Date of publication</b>	<b>Follow up(max 100 words)</b>
GE6075 - Professional Ethics in Engineering [R2013] - BE-Human Values and Ethics in the Workplace	07/05/2019	This book presents a framework for understanding human values and their role in life, work, business and leadership. It offers an explanation for the spectrum of human behaviour, from a self-focused, survivalist mindset that has scant regard for ethics, through to compliance with laws and conventions, and then to the aspiration to live a higher ethical and spiritual life. The book offers a practical guide on how to develop a more ethical way of working and being, both personally and in organisations. Rather than being an additional burden on people or organisations, ethics and values are a liberating force, enabling higher performance, better quality relationships and an expanded sense of purpose and identity.
BA7402 - Business Ethics, Corporate Social Responsibility and Governance[R2013] BE	16/12/2019	The present textbook is written to cover the cent percent syllabus of the paper titled Business Ethics and Corporate Social Responsibility offered in B.Com. (Hons.) by Guru Govind Singh Indraprastha University, Delhi. I hope the discernible readers—both students and

		<p>teachers—will find the book useful in meeting their requirements.</p> <p>Being the first edition, there may still be some shortcomings of one type or other.</p>
<p>BA 5105 - Organizational Behavior [R 2017MBA]</p>	<p>16/07/2019</p>	<p>This new textbook discusses all the major topics of organizational behavior emphasizing how individuals, groups, and organizations interact to contribute to organizational success and achievement. It challenges the readers to develop greater personal, interpersonal, and organizational skills, and utilize these strengths competently in the organizational environment. The book adopts a strengths-based and action-oriented approach while integrating important concepts such as leadership, creativity, and innovation and their role in the global society.</p>
<p>GE8291 - Environmental Science and Engineering [R 2017-BE]</p>	<p>07/01/2019</p>	<p>Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and control engineering for students of civil engineering, this comprehensive text provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection.</p>
<p>GE8076 - Professional Ethics in Engineering [R 2017-BE]</p>	<p>07/01/2019</p>	<p>The book addresses how engineers can incorporate the professional ethics into their practices to make engineering a success. The key discussions included in this book are: (a) How</p>



		should engineers embrace an understanding of responsibility and social values into their technological innovations? (b) Do engineers need to discern risks, human emotions and social demands while engaging in product design? and (c) How should an “Engineering Ethics”
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#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
The Awareness of Alcohol Addiction and Reformation Rally	27/07/2019	27/07/2019	150
Drug Awareness Programme	17/08/2019	17/08/2019	200
Programme on Gandhi Jyanthi	01/10/2019	01/10/2019	65
Awareness about Rain Water Harvesting and Green Initiatives	09/11/2019	09/11/2019	215
Republic Day	26/01/2020	26/01/2020	220

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#### 7.1.7. Initiatives taken by the institution to make the campus eco-friendly (at least five)

**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

## **7.2. Best Practices**

### **7.2.1. Describe at least two institutional best practices**

- 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/-. 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.

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 greenhouse 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. □ The two blocks has a central open quadrangle which allows cross ventilation and ample sunlight to all the class rooms

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

3. The Practice 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.

4. 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 12 during 2019-20. All street lights are replaced by LED lighting which further reduces in the energy consumption. About 1100 Tube lights are replaced by LED Lighting. Total power requirement met by the renewable energy sources is about 27 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 27 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 Hygiene 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, 38123.72082 Kg of CO<sub>2</sub> of carbon footprint has been generated within the campus. 5. Problems Encountered and Resources Required: Constant motivation is required to enable the students and faculty on sustainable utilization of the established green campus practices.

**Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link**

<https://www.drngpit.ac.in>

### **7.3 – Institutional Distinctiveness**

**7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words**

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 48 ICT enabled classrooms, 45 well equipped state of art laboratories, IP enabled well stocked library, 14 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. Institutes indigenously developed Learning Management System (LMS) web portal is accessible to all stakeholders with learning material, attendance, internal test performance and other news and events. 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. 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. The institute established 14 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 48 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

**Provide the weblink of the institution**

**<https://www.drngpit.ac.in>**

**8.Future Plans of Actions for Next Academic Year**