



YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution	Dr.N.G.P. Institute of Technology
• Name of the Head of the institution	Dr. S.U. Prabha
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	04222369102
• Mobile no	874955886
• Registered e-mail	principal@drngpit.ac.in
• Alternate e-mail	naac@drngpit.ac.in
• Address	Dr. NGP Nagar, Kalapatti Road
• City/Town	Coimbatore
• State/UT	Tamil Nadu
• Pin Code	641048
2.Institutional status	
• Affiliated /Constituent	Affiliated
• Type of Institution	Co-education
• Location	Urban
• Financial Status	Self-financing

- Name of the Affiliating University **Anna University, Chennai**
- Name of the IQAC Coordinator **Dr.P.Sampath**
- Phone No. **04222369145**
- Alternate phone No. **04222369105**
- Mobile **9443003507**
- IQAC e-mail address **iqac@drngpit.ac.in**
- Alternate Email address **naac@drngpit.ac.in**

3.Website address (Web link of the AQAR (Previous Academic Year)) <https://www.drngpit.ac.in/naac>

4.Whether Academic Calendar prepared during the year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: <https://www.drngpit.ac.in/naac>

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	B	2.81	2015	03/03/2015	02/03/2020
Cycle 2	A+	3.36	2021	15/02/2021	14/02/2026

6.Date of Establishment of IQAC **14/03/2015**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	Skill and Personality Development Program Centre (SPDC)	AICTE	2021 and 1 year	5.04 Lakhs
Institution	Scheme for Promoting Interests,	AICTE	2021 and 1 year	1 Lakh

	Creativity and Ethics among Students (SPICES)			
Department of CSE	Seminar on Sustainable environment for development of crops Returns in the field of agriculture using IoT	CSIR	2022 and 1 day	30,000
Department of Mechanical Engineering	One Day National Level Seminar on Bio-Tribology and Nano Tribology for Medical and Industrial Applications	CSIR	2022 and 1 day	15,000
Department of ECE and EEE	Research Promotion Scheme	AICTE	2022 and 3 years	16.82 Lakhs
Department of IT	Two Days National Seminar on athematical Models in Security, Defence, Cyber Security and Cyber Defence	DRDO	2022 and 2 days	30,000

8. Whether composition of IQAC as per latest **Yes**

NAAC guidelines

- Upload latest notification of formation of IQAC [View File](#)

9.No. of IQAC meetings held during the year 4

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? **Yes**
- If No, please upload the minutes of the meeting(s) and Action Taken Report No File Uploaded

10.Whether IQAC received funding from any of the funding agency to support its activities during the year? **No**

- If yes, mention the amount

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Submitted Application for Autonomous status to UGC and Anna University. The Institution is conferred with Autonomous status by the UGC and Anna University after the committee visits.

NBA Accreditation for five Programmes namely Biomedical Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering extended for 3 years up to 2025.

Academic audits are conducted periodically.

Participated in MHW ranking and the institution is ranked 59th across India and is positioned in the 'GOLD Band: Institution of Excellence' category

12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
Compliance report submitted for NBA Accreditation of five Programmes	Received the NBA accreditation for the five programmes for 3 years from 2022-2023 to 2024-2025
To frame the Curriculum and syllabus for the courses in Regulations 2022 for UG and PG Programmes	Curriculum and syllabus for the courses in Regulations 2022 for UG and PG Programmes framed
To have more Collaborations with industries and institutes	19 MoUs have been signed with Industries
Orientation programmes to be conducted for the newly joined faculty members	Faculty Orientation programme was conducted for newly joined faculty members a
Motivate the faculty members to carry out their research activities like publish the research paper in the reputed journals, publication of books, chapters and conference proceedings, etc.	192 Papers published in Journal and 172 book/book chapters/ conference proceedings published

13. Whether the AQAR was placed before statutory body? Yes

- Name of the statutory body

Name	Date of meeting(s)
Academic Council Meeting	26/11/2022

14. Whether institutional data submitted to AISHE

Part A

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• Designation	Principal
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• Name of the IQAC Coordinator	Dr.P.Sampath

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<ul style="list-style-type: none"> Name of the statutory body 	
Name	Date of meeting(s)
Academic Council Meeting	26/11/2022
14. Whether institutional data submitted to AISHE	
Year	Date of Submission
2020-2021	23/02/2022
15. Multidisciplinary / interdisciplinary	
<p>In the Institution, new Under Graduate Programme B.Tech. Artificial Intelligence and Data Science is introduced from the Academic Year 2021-2022 and B.Tech. Computer Science and Business</p>	

Systems is introduced from the Academic year 2022-2023.

The Institution has been conferred with Autonomous status from the Academic Year 2022-2023. The Curriculum has been planned to offer Minor/Specializations as recommended by AICTE in the domains of Robotics and Automation, Electric Vehicle Technology, Blockchain and Internet of Things.

Open Electives courses for 9 credits are offered to the students of all the UG Programmes and 3 credits for PG programmes to encourage the interdisciplinary approach and culture among the students.

The humanities and science concepts are integrated into the Curriculum in courses like STEM Projects and Mini project. Also, students develop prototypes of their project with the seed money provided by the institution and through funded projects through TNSCST, IEEE, IE(I), etc.

Being Autonomous Institution from the Academic Year 2022-2023, the students do the STEM Project in the First year, Mini projects in their 2nd and 3rd year of study, and Project Work in the Final year as per the Curriculum under Regulations 2022.

The Institution is offering the courses under Choice Based Credit System (CBCS) where the students choose the course in the beginning of the semester. Also, advanced learners choose one course in addition to the existing courses in the sixth and seventh semesters and will do only project work in their eighth semester. Project work is carried out in Industry as well as in the Institution during the eighth semester. Students develop Projects that cater to the needs of the Society like Drone for pesticide spraying, drones for fire extinguishing, wind energy system etc. Value added courses are being offered to all the students by Industry person and the duration of each course is minimum of 30 Hours. In these courses, the students are given hands on training in the cutting-edge technologies in industry. The students go to field visits to get themselves educated on societal needs and will be able to design & develop systems to solve the problems. Also, the students service to the society through Unnat Bharat Abhiyan, NSS and Uvir Club.

The Curriculum under the regulations 2022 is framed such that there are three open electives each of 3 credits which the students have flexibility to opt from other programmes in their third, fourth and fifth semesters of study. Courses like PCB

Design and Manufacturing, Nano Electronics, Renewable energy, Electric Vehicle Technology, Cloud Computing, 3D Printing Technology, Ergonomics, Product Design and Development, Disaster Management, Medical Electronics, Hospital Waste Management, Geographical Information System, Smart Materials and Smart Structures, etc. are offered as Open Elective courses in various Programmes offered by the Institution. This promotes the students to learn multidisciplinary courses. Conferences, seminars, workshops, and Hackathons are conducted in the institution to encourage interdisciplinary and multi-disciplinary approach where in the students enhance and maintain the rigor of learning through problem-solving, coding and out of the box thinking and lateral thinking.

The strategic plan of the Institution is prepared in order to engage the faculty and students engage in multidisciplinary research activities. Faculty members of two or more departments design and develop products, present their ideas in Conferences, and publish papers in the journals. The faculty members along with the students develop solutions for the pressing issues and challenge faced by the society like climate changes, optimum use of renewable energy and sustainable green environment.

Students from two or more departments work in the industry powered centers established in the institution that foster the learner responsibility to develop multidisciplinary/interdisciplinary projects and products for competitions like Hackathons, e-yantra Robotics competition etc. Recently two teams have won first prize in the Smart India Hackathon and one team has been shortlisted for the third round in the Robotics competition.

The students practice group discussions, active learning, learning by doing, modeling, in the labs to develop solutions for the societal needs.

In the Institution, Peer Enablement Programme is being conducted in all the departments every week, where all the faculty members discuss with their peers on the latest developments in their domain and on the needs of the society relevant to their domain.

16.Academic bank of credits (ABC):

The ERP system in the Institution facilitates the data capturing of credits earned by the individual students every semester and is ready for transfer of credits into Academic Bank. The

Institution has expressed the willingness to be a part of National Academic Depository to the Affiliating University, which is the essential step towards ABC.

The Institution has signed MoUs with Foreign Universities for research collaboration, Faculty knowledge sharing programmes and student Internships programmes.

1. Universiti Teknologi PETRONAS, Malaysia
2. Florida Atlantic University, USA
3. Wayne State University, USA
4. Lincoln University College, Malaysia
5. University Wisconsin La-Crosse, USA
6. SEGi University College, Malaysia

are the Universities with which the above Collaborations are in place.

The faculty members prepare the lesson plan in the beginning of the semester as per the format specified by the Institution. The lesson plan comprising of the methods and modes of course delivery in the classroom, lesson plan, number of hours required for each topic, assessment plan, assessment schedule, topics for the assessments, modes of assignments, etc. are prepared and audited before the beginning of the course.

In the regulations 2022, the students have the option of advancing the Professional elective courses offered in the seventh semester as SWAYAM NPTEL online courses of 3 credits, 3-one credit courses, one course each in fifth & sixth semester. This enables the students to do carry out the project for one full year in the R&D labs and industry.

This practice pertains the institution to have a step forward in the implementation of NEP 2020.

17.Skill development:

In order to enhance the soft and hard skills of the students, Courses are introduced from I semester onwards.

1. Soft skills are enhanced through Communicative English and Technical English courses in the first and second semesters respectively. In addition, courses on Integrated Aptitude skills are offered in the second and third year of study for the students.

2. Hard skills are enhanced by offering more one-credit courses, value added courses and internships to the students. These courses are handled by Industry persons.
3. Participative learning, Problem solving, Experiential learning - related courses are offered from the first year itself.
4. Skill development activities are conducted through the Student Council, Professional Societies, and clubs for improving skills related to team work.

The Institution being Affiliated to Anna University-Chennai, does not offer degree programmes in Vocational education. However, Value added courses, industry driven courses (one credit courses) are offered to the students.

I year orientation programme is conducted for the students admitted in the Institution for them to get accustomed to the new environment. During this programme, the UHV certified faculty members inculcate positivity in the students by handling sessions on Harmony and nature, Harmony in existence, Harmony in family, Harmony in society.

The curriculum comprises of course like Professional Ethics-I, Professional Ethics-II, Liberal Arts like Positive Psychology, UHV, Indian Constitution, etc., to inculcate values amongst the students.

Mandatory one credit course and Mandatory noncredit courses are offered as per the Curriculum across all Programmes that all students take before graduating.

All the departments are having Industry Veterans taking part in Industry Advisory Board, Board of Studies, etc. Industry persons frame the syllabus for the one credit courses and is offered to the students. Also, value added course are offered by the industry people with hands-on experience for the students in the institution and in the industry. Every department is also having provision of adjunct faculty from industries and Professor of Practice.

Students are motivated to do the SWAYAM online course through NPTEL and many students have successfully completed the courses. Also, faculty members also do the courses in their domain of interest for their continuous knowledge enhancement.

Through MHRD-IIC of the Institution entrepreneurial activities

are conducted for the students to get certifications and map the skills acquired to their learning. This enables the students to have their own start-ups.

The students are at liberty to do more courses through online via NPTEL, Courseera, Udemey etc. in addition to their regular courses. The students showcase their skills by participating in technical events inside and outside the institution

Hackathons, project competitions and poster presentations are conducted in the institution regularly for improving the skills of the students. The institution participates in the schemes announced by the State Government like Naan Mudhalvan, Learnathon, Toyathon, Naalai Thiran, etc. The faculty members are trained through "Train the Trainer" mode. The trained faculty members coordinate the students to participate and expose their talents. The institute has also signed MoU with NASSCOM for skill development of the students.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Courses like Liberal arts are offered to the students to preserve and promote Indian languages, traditional knowledge, Indian arts, culture and traditions. As a part of Liberal Arts, courses like Personal Finance, Indian Constitution, Arivial Tamil etc. are offered to the students.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The Institution introduced Outcome Based Education (OBE) and Choice Based Credit System (CBCS) in 2017. The courses of all the programmes are categorised into Humanities and Social Sciences (HS), Basic Sciences (BS), Basic Engineering Sciences (ES), Professional Core (PC), Professional Electives (PE), Open Electives (OE), Project Work and Mandatory non-credit courses.

Programme Educational Objectives (PEOs), Programme Outcomes (POs - also known as Graduate Attributes), Programme Specific Outcomes (PSO) are framed, considering the NBA guidelines and the local & global needs. The course outcomes (CO's) are designed to align with the PO's, PSO's and PEO's. Accordingly, every student learns to demonstrate the Knowledge, skills and attitude with concepts at the end of every course.

The Question papers are formulated using Bloom's Taxonomy knowledge levels and action verbs to assess the attainment of

Course Outcomes.**20.Distance education/online education:**

Dr.N.G.P. Institute of Technology, as an autonomous institution, affiliated to Anna University Chennai, is not eligible to offer distance education and online education. Currently Students attend SWAYAM - NPTEL Courses and the students may waive one Professional elective/ open elective. The credit earned through NPTEL exams is considered for grading (CGPA calculation). Also, student are encouraged to enroll for online courses through Courseera, Udemy etc.

Extended Profile**1.Programme**

1.1	441
Number of courses offered by the institution across all programs during the year	

File Description	Documents
Data Template	View File

2.Student

2.1	2139
Number of students during the year	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.2	691
Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	

File Description	Documents
Data Template	View File

2.3	433
Number of outgoing/ final year students during the year	

File Description	Documents
Data Template	View File
3.Academic	
3.1 Number of full time teachers during the year	189
File Description	Documents
Data Template	View File
3.2 Number of sanctioned posts during the year	189
File Description	Documents
Data Template	View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	77
4.2 Total expenditure excluding salary during the year (INR in lakhs)	1072.94
4.3 Total number of computers on campus for academic purposes	1243
Part B	
CURRICULAR ASPECTS	
1.1 - Curricular Planning and Implementation	
1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process	
Dr. N.G.P. Institute of Technology, affiliated to Anna University, Chennai, follows a well-planned and documented process for effective curriculum delivery. The institution adopts the curriculum 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 stake holders to evolve various strategies and monitoring mechanisms are in place. Based on the academic schedule of the affiliating university, the Institution prepares the academic calendar which comprises various academic, professional and extracurricular activities of the institution and departments for each semester. Course allotments are done based on skill matrix and experience of the faculty members. Monitoring of course delivery and syllabus completion is done through Tutor Ward Meetings, Class Committee Meetings, Periodical Academic Audits and End- Semester Meeting. HoD monitors the conduct of classes, tutorial sessions and student performance. Tutorial sessions are conducted to facilitate group interaction 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.

File Description	Documents
Upload relevant supporting document	No File Uploaded
Link for Additional information	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C1/1.1.1-Annexure%201.1%20Effective%20Curriculum%20Delivery%20Through%20a%20Well%20Planned.pdf

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

Being an affiliated Institution, the university schedule is reflected in the academic calendar prepared in the Institution. 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 the IQAC. Academic Calendar also includes the process of CIE. Based on Institution's academic calendar, the department wise academic calendar is prepared in the Department highlighting the events planned by individual departments. The academic calendars are circulated to all the faculty members and the students before the commencement of the semester. The process of CIE included in the academic calendar of the Institution 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 to ADC. The dates of exams prescribed in the academic calendars are followed by every department for conducting the internal exams. Internal Exam marks of each course are entered in the Key_in campus portal and Result analysis is done. Result review meeting is conducted with Faculty members and HoD by the Principal.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

A. All of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

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

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

13

File Description	Documents
Any additional information	View File
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

14

File Description	Documents
Any additional information	View File
Brochure or any other document relating to Add on /Certificate programs	View File
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

627

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

1.3 - Curriculum Enrichment

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

Students are sensitized to issues related to gender discrimination, environmental change, human rights through talks in forums, campaigns and village adoption.

The Gender Equity Cell (GEC) provides equal opportunities to both the genders in terms of admissions, activities, representation,

leadership, trainings, employment.

Women Development Cell (WDC) and IEEE Women in Engineering affinity group initiates in organizing the seminars/lectures by inviting the specialist/ eminent personalities to focus on women empowerment and promoting leadership qualities in women.

Environment Consciousness

The Institution has created a herbal garden inside the campus which is an island of medicinal varieties. Regular campaigns to save energy in classrooms are mobilized.

Environmental Science and Engineering course highlights the causes, effects and control measures in environmental pollution, social issues in ecosystem and bio diversity.

Environmental Awareness Club (EAC) takes care of environmental issues across the campus and organizes environmental related activities like World Water Day, National Science Day, Earth Day and Safe Driving Awareness.

Human Values: To inculcate good Human Values and Professional Ethics, the institution organizes several programs on Indian Heritage, culture, Gandhian thoughts, Service to Society, Work Ethics and Moral Theories.

Elective course on Professional Ethics and Human Values creates awareness on Engineering Ethics and Human values

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

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

80

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	No File Uploaded
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	No File Uploaded
MoU's with relevant organizations for these courses, if any	No File Uploaded
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

2097

File Description	Documents
Any additional information	View File
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	A. All of the above
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File Description	Documents
URL for stakeholder feedback report	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C1/1.4%20Addtitional%20information%20Feedback%20and%20action%20taken.pdf
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

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

File Description	Documents
Upload any additional information	View File
URL for feedback report	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C1/1.4%20Addtitional%20information%20Feedback%20and%20action%20taken.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

726

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

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

691	
File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

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

Students of B.E./B.Tech. are admitted through single window system of Tamil Nadu Engineering Admissions (TNEA) based on their Higher Secondary Examination (HSC) marks. Every year the institution organizes Fresher's Meet and Induction Program for the students admitted to help them adjust to the new environment and inculcate in them the ethos of the institution.

The Institution assesses the knowledge and skills of the students before the commencement of the programme by conducting Entry Level Assessment Test covering language and soft skills. Based on the performance of students in the test, learning levels and communication skills of the students are identified. Every student, would be put through a Bridge Course organized by the institution which reinforces the fundamental concepts and the required skills for technical education.

Slow Learners: Special classes are conducted after every Continuous Internal Assessment (CIA) to improve the academic performance of slow learners. The performance of students is monitored and reported to the parents through college portal and Parents Teachers Meeting.

Advanced Learners: Apart from academics, the students are encouraged to participate in various co-curricular activities like student competitions, symposia, conferences, workshops, project contests and hackathon to make them compete with real world.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

Number of Students	Number of Teachers
2139	189

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The Institution takes necessary measures to enhance the learning experience of the students through

Experiential Learning:

State of the art laboratories have been established for students to impart the experiential learning through Theory to Practice (T2P). The Institution has established various Industry Powered Centers and e-learning centers to improve their creative thinking in technical and research fields. Value added courses are offered by the industry person to the students to have experiential learning on the latest developments in the respective disciplines.

Participative Learning:

Institution in association with professional societies and chapters organize various activities like Hackathon, IEEE Xtreme programming competition, HENOSIS, Project expo. Institute in collaboration with IIT PALS, MHRD Institution Innovation council promotes creativity and critical thinking among students through active participation events organized.

Problem Solving Methodologies:

Assignments in higher level of thinking are given to the students to break down ideas into simpler parts and find evidence to support self-learning abilities. Students are encouraged to find out the solutions for real time problems via case studies, Hackathon, and field/industrial projects.

Tutorial classes are being conducted for analytical courses in which modern pedagogical tools like group tutorial, collaborative

learning is practiced by the students for improving their problem-solving ability.

File Description	Documents
Upload any additional information	View File
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

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

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

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

Institution has established e-learning facilities and resources like Swayam Prabha technology DTH channel, Center for Teaching Learning (TLC), EDUSAT, A-VIEW, VALUE Virtual Lab, IIT - B spoken tutorial, NPTEL, Learning Management System, e-books and e-journals, digital library to improve their creative thinking in technical and research fields.

Institution established industry powered centers like Center for

Robotics - eYantra, Texas Instruments Center, NI LabVIEW academy, CISCO networking academy, Cyber security center, CDAC IoT research lab, Mathworks Academy, Salzer innovation centre to train the students on emerging technologies. Students also do online certifications in various modules of the software available in these centers.

File Description	Documents
Upload any additional information	View File
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View File

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

2.3.3.1 - Number of mentors

130

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	View File
Circulars pertaining to assigning mentors to mentees	No File Uploaded
Mentor/mentee ratio	No File Uploaded

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

189

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)**2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year****74**

File Description	Documents
Any additional information	No File Uploaded
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)**2.4.3.1 - Total experience of full-time teachers****784.19**

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

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

Scheduling of Continuous Internal Examination (CIE):

The Academic Calendar which covers the schedule of internal assessment at the beginning of each semester is circulated in the Institution. The same is available in institution website, student portal and parent portal for ease of accessibility.

Conduct of CIE:

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

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

The ADC takes care of the CIE process .

Post CIE:

The course instructor interacts with students about the scheme of evaluation and distributes the corrected answer scripts within stipulated time. The internal assessment marks are communicated to parents through SMS, parent portal and university portal and it can be viewed by the students/parents.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

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

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

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

ADC and Exam cell have been constituted in the institution to

address all examination and evaluation related grievances arising during CIE and end semester exam respectively.

The institute has a transparency in internal examination by giving the provision to students for reporting the discrepancy in question paper to hall superintendent, who intimates to ADC and Principal.

The institute displays the schedule of exam circulated by the affiliating university. The internal mark is viewed by students and it is displayed in the student notice board. Feedback on university question paper is submitted to the exam cell. The discrepancies such as data missing, lengthy question, out of syllabus are communicated to the university through online web portal on the day of exam itself.

File Description	Documents
Any additional information	View File
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

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

Vision, mission, PEOs, POs and PSOs are published on the college website (www.drngpit.ac.in), department website (<http://www.drngpit.ac.in/bio-medical.php>), Department documents and circulated to the students through email and by uploading posters in the social networking sites. Posters are also prominently displayed on the Department notice boards, Laboratory notice boards, Cabin of all faculty members, HoD cabin, Department library, and Classrooms. Catalogs: Distributed to the students during admission and to the industries. Apart from this, the catalogs are disseminated to all the stakeholders of the program through faculty meetings, parent- teacher meetings, Alumni meets, Workshops, Seminars, conferences, FDP, Educational fairs, and through electronic media.

Vision, Mission, PEOs, POs and PSOs along with Course Outcomes for the courses are published in the Regulations & Curriculum Book.

Course Outcomes (COs) for the courses offered are disseminated to the faculty members in the department meeting before the beginning

of each semester. The faculty members prepare lesson plan for the courses with CO-PO mapping and discuss the evaluation pattern for the course with the students at the beginning of every semester in the Course Committee meetings and Class Committee meetings.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil
Upload COs for all Programmes (exemplars from Glossary)	View File

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

I. Procedure for Calculation of CO attainment

In the department, the level of attainment by the students in the courses is evaluated after every assessment continuously in each semester through the Course Outcomes. To evaluate the Course Outcomes the data is collected through Direct Assessment and Indirect Assessment.

Direct Assessment:

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

- i. Formative assessment through Multiple choice Questions - Online mode, Viva questions, observation and record - Cycle marks and,
- ii. Summative Assessment through internal test, class test, assignment, tutorial, model exam, mini-project.

Indirect Assessment:

The indirect assessment is measured through course end survey.

II Procedure for Calculation of PO/PSO attainment PO attainment:

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

CO attainment and indirect assessment is measured from 10% of alumni survey and 10 % of graduate exit survey.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

428

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C2/2.7%20Student%20Satisfaction%20Survey.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

26.274

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

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

3.1.2.1 - Number of teachers recognized as research guides

27

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

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

8

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	View File
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

3.2 - Innovation Ecosystem

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

The institute has innate tendency to foster the culture of innovation inside the campus through various clubs/cells/centers

for the research community and academic fraternity. With the objective of innovation in mind a broad spectrum of initiative are implemented.

- IIPC to provide opportunities for the students and faculty through field visit, industrial trainings, Internships, projects, industry lecture series, seminars, MoUs.
- Institution Innovation Council (IIC) under MHRD innovation cell to nurture young professionals by exposing them to new ideas and processes resulting in innovative and entrepreneurial activities.
- IIT Pals, an initiative of IITAIIC (IIT Alumni Interaction Centre), Chennai to channel the resources available within the IIT alumni community across the corporate, academic and entrepreneurial domains.
- Association with KMCH Research Foundation (DSIR approved) to conduct meetings, conferences, symposium, health care camps, Non communicable diseases survey camps and projects in health care research to disseminate and acquire information.
- Research Attachment Programme with foreign universities to create conducive environment for the development of product towards research contribution.

Outcomes:

IIPC has entered into agreement with 20 leading industries, research organizations and foreign universities. Around 397 students were involved in collaborative activities carried out during this academic year

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

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

68

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

21

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

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

192

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

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

172

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

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

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

The institute established 9 technical clubs and 11 non-technical clubs in which various extension and outreach activities like blood donation camp, Swachh Bharat, Unnat Bharat Abhiyan, tree sapling, hazards of plastic use, traffic rule awareness rally were organized for the benefits of the neighborhood community. Students and staff took part in various activities in collaboration with government and non-governmental bodies, industry and community like Mass Cleaning Campaign, Blood Donation camp and AIDS Awareness Rally.

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

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year**3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year**

3

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	View File

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year**3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year**

21

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year**3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year**

1041

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

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

355

File Description	Documents
e-copies of related Document	View File
Any additional information	No File Uploaded
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

23

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES**4.1 - Physical Facilities**

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

The college spans over 18.93 acres of sprawling and a serene green campus. The campus has well planned infrastructure comprising of 51 ICT enabled class rooms, 4 drawing halls, 11 tutorial halls and elective classroom, 46 laboratories, 12 industry powered centers, 14 seminar halls, 10 Board room, 2 Teaching Learning centre, department and IP enabled central libraries, conference centre, center for e-learning with resources like Swayam Prabha technology DTH channel, EDUSAT, A-VIEW, IIT - B spoken tutorial, NPTEL local chapter, Learning Management System and Center for Teaching Learning (CTL), e-books and e-journals, digital library to improve creative thinking and skills in technical and research fields; In collaboration with AICTE funded IIPC, Institution has established industry powered centers like Center for Robotics - e- Yantra, Texas Instruments Center, NI LabVIEW Academy, CISCO Networking Academy, Cyber Security Center, CDAC-IoT Research lab, Mathworks Academy, Salzer innovation centre to train the students on emerging technologies. The sports facilities like play grounds, indoor auditorium, gymnasium to motivate the team spirit and leadership qualities among students. Extensive computing facilities with 1243 terminals and 18 Wi-Fi hotspots at prominent locations connectivity with 500 Mbps leased lines are available throughout the campus.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

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

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

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

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

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

77

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

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

8.81

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

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

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

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

Electronic Resource Management package for e-journals:

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

Library Automation:

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

File Description	Documents
Upload any additional information	View File
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

20.25

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

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

620

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

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

The institute has well-structured IT facilities with 500Mbps bandwidth for 24x7 connectivity. The institution has wired and 18 Wi-Fi hotspot at prominent locations -wireless connectivity for use of students and faculty members across the campus including the hostel.

IT infrastructure and internet facilities:

- 500Mbps of dedicated 1:1 leased line internet connectivity from TATA Tele Business Services for education and research needs.
- MAC-binded 'Wi-Fi' provision at selective in-campus hubs and hostels.

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

Desktops (1243) from various brands with latest processor capacity.

Compatible branded Higher-end servers (4) to meet the IT-specific tasks like file, database, virus and backup management.

Printers (88), Copiers (5) and Scanners (10) for document imaging and reprography.

Healthy connected 'CAMPUS-LAN' via structured Optical Fibre and CATx cabling throughout the entire campus for anywhere data access.

Piracy-free IT environment through proper licensing of software. Tailored 'Microsoft Campus Agreement (MCSA)' to utilize the latest Microsoft products.

A separate 'Open-source Lab' to extend open-source migration.

'Language Lab' with audio-video gadgets and state of the art communication teaching-learning tools.

Supportive IT atmosphere for NPTEL learning, A-VIEW workshop, EDUSAT, Value-added courses and various placement training programmes.

Wi-Fi Availability: Classrooms, laboratories, department offices, hostels and library are connected through 802.11 a/b/g/n protocol.

IT Security Model: Secured IT infrastructure through sophos XG firewall to prevent unauthorized access with user privileges. Three-way Wi-Fi protection via IP restriction, MAC-binding & WPA/WPA2 password encryption.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

1243

File Description	Documents
Upload any additional information	No File Uploaded
List of Computers	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

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

54.27

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts	View File
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

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 housekeeping 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.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1168

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

683

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File
5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills	A. All of the above
File Description	Documents
Link to Institutional website	https://docs.drngpit.ac.in/naac/AOAR_2021-2022/C5/5.1.3%20additional%20information.pdf
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File
5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
354	
5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year	
343	
File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

<p>5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees</p>	<p>A. All of the above</p>
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File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	No File Uploaded
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	View File

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

325

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

37

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	No File Uploaded
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

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

18

File Description	Documents
Upload supporting data for the same	View File
Any additional information	No File Uploaded
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

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

27

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

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

The Institution 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 Heads of the Departments selects the student nominee based on academic performance for governing the curricular activities of the department / institution. The Institution has constituted an active student council comprising of Chairman, Vice Chairman, Secretary, Joint Secretary, Treasurer and office bearers. The members of the student council along with faculty members are involving themselves for the planning, monitoring and execution of institutional level events such as Annual day, HENOSIS (National Technical Symposium), Tech Fest (An Interdepartmental Cultural Extravaganza), Sports day, Aikman (INDUSTUDENT CONFLUENCE), Career Day, Graduation Day, Alumni interactions and Alumni lecture series, students project expo, Spectronic (School Level Science Tec nova), hostel day, and various technical and non-technical club activities viz. NSS, RRC, YRC, Yoga, retract 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 various committees

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

22

File Description	Documents
Report of the event	View File
Upload any additional information	No File Uploaded
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

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

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

The main objective of Alumni Association is, 1. To promote and foster mutually beneficial interaction among the alumni and with their juniors. 2. To encourage the formation of Chapters as a means to increase participation of Alumni. 3. To educate the students about the rewards and responsibilities of the life long relationship with the College. 4. To provide the discussion to establish a link between the alumni, staff, and students of the Institute. 5. To guide and help the outgoing batch of students of Dr. N.G.P.IT regarding the professional placements and higher

studies. 6. To guide and assist Alumni who have recently completed their courses of study at the Dr. N.G.P. IT to keep them engaged in productive pursuits useful to the society. 7. To provide a common platform for all alumni students to meet regularly and exchange their views regarding professional activities.

It also serves as a forum for the alumni for exchange of ideas on academic, cultural and social issues of the day through the alumni lecture series being conducted by various departments at regular intervals. Frequent Alumni Lectures are arranged by respective department for the benefit of students and the alumni extend their help for current career opportunities, Placement and industrial training required at the engineering fields.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

C. 3 Lakhs - 4 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

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

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

INSTITUTE VISION:

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

INSTITUTE MISSION:

The stated vision of the Institution will be achieved by:

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

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

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

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

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

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

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

The effective leadership is visible in various institutional practices such as decentralization and participative management through administrative meetings like Governing Council, Academic Council, IQAC Meetings, Department Advisory Board, Industry Advisory Board, Programme Assessment Committee, HoDs meeting, Faculty meeting at the Department level by the HoDs, IIPC meetings, IIC meetings, Research and Development meetings, Academic audits etc.

The Academic calendar is prepared by the IQAC in discussion with the Principal and HoDs at the beginning of the academic year.

This system oriented broad-based schedule is adhered to in accordance with the academic calendar of the affiliating university. The finalized institutional academic calendar is circulated to all the departments.

The department academic calendar is planned and prepared in line with the institutional academic calendar and all activities are conducted by the respective Faculty members / HoDs / Exam Cell as per the Academic Calendar and Teaching plan. Industry driven courses are conducted as per the availability of the experts from the respective industries. In rare situations, few scheduled activities are deviated due to some unavoidable circumstances like natural calamities and declaration of holidays by the Government.

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

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

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

The IQAC has framed the ADC guidelines, project guidelines and research guidelines for improving examination process, research projects and publications.

The ADC guidelines address the transparent mechanism of continuous internal assessment & evaluation.

The project guidelines address the quality projects in industries carried out by the students. Students were encouraged to take up projects and internships. 2097 students underwent internships/

industrial training and industrial projects.

The research guidelines regulate and monitors the activities pertaining to research, patents.

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

The committees are formulated in the institution to carry out the activities ensuring the quality.

The institution formulated auditing committees to carry out inter department and intra audits and invite external experts for each year. The non-conformities identified and corrective actions are carried out by the faculty.

With the effective implementation towards quality policies, the institution is accredited by NAAC with A+ Grade and five programmes (BME, CSE, ECE, EEE and Mechanical) in the institution have been accredited by National Board of Accreditation (NBA). In addition to this, the institution has received many awards.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	View File

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

The Institution ensures effective implementation of governance, administrative functions, policy guidelines, service rules for employment at all functional levels. The Governing Council monitors the implementation of activities in the institutional strategic plan.

Governing Council take policy decisions regarding the academic and administrative affairs of the institution. Also, it is responsible for leading the development and execution of the institution's

long-term strategy, managing the overall operations and resources of the institution.

Principal suggests recommendations to the management regarding student and staff progression. Principal also takes utmost care for the smooth functioning of the academic system and enhances the standards of education by providing an outstanding, creative and participative learning environment in the institution.

IQAC is responsible for the preparation of Academic calendar and effective implementation of the activities as per the plan.

HoDs are responsible for executing the Academic Plan of the department. They take decisions concerning department affairs.

Faculty takes up positions viz. Academic Coordinators, Course Mentors, Course Coordinators, Class advisors and Tutors. They are responsible for effective curricular transaction and address the grievances of students, if any.

Necessary ratification is obtained from the 19th Governing Council dated 06.08.2021.

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the institution webpage	Nil
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
Screen shots of user inter faces	View File
Any additional information	View File
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

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

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

The Institute is implementing various schemes for the welfare of the teaching and non-teaching staff members.

The staff members are encouraged and given financial assistance to pursue higher education, to attend FDP in their field of interest, industry visits and trainings to attend and present research papers in conferences, to publish research papers in indexed journals, to organize seminar, guest lecture, FDP for faculty members.

Orientation programs are conducted for the newly recruited faculty members once in a year to enhance their teaching ability. The faculty members are encouraged to attend the seminars conferences as well as refresher courses organized by university and AICTE. The faculty members are given on duty to participate/act as a resource person in the outside Institute. The Institute provides the following welfare scheme towards motivating and retaining the employees such as EPF, insurance, Vacation for teaching and non-teaching staff members, casual leave, medical leave, Free

transportation for the non-teaching staff members. The faculty members are appreciated with promotions and rewards benefits to Faculty.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

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

7

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

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

19

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

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

189

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

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

The institute has structured mechanism for the performance evaluation system for teaching and non- teaching staff and is carried out regularly at the end of every academic year.

The performance of faculty members is assessed based Teaching & Learning, Research & Development, External Interface and Operations in the Academic Performance Indicators (API).

The faculty will submit the self-appraisal API form to the Head of the Department with all the relevant supporting materials/documents. Head of the Department will award scores for all the criteria and will submit to the Head of the Institution with all the recommendations. Head of the Institution will assess the scores awarded for the criteria and submit to the management with all the recommendations.

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

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

The responsibility and involvement of the non - teaching staff are also assessed. The components of assessment are Professional Competence, Technical Performance, Service to the Institute and Skill upgradation through participation in courses

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

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

Internal Audit:

Finance Controller is responsible for Internal Audit and Internal

Control. The scope of internal audit programme comprising of Vouching, Monitoring the day-to-day operation. Confirmation balance of Assets and Liabilities, Statutory payment like PF, ESI, TDS and other local taxes and Prompt payment of Bank repayable.

Review with Institutional accounts team for the observation of the audit quires. Ensure the audit quires are properly carried out.

External Audit:

Half yearly and Yearly Books of Accounts submitted to the Statutory Auditor for carry out the External Audit. They will check Bank and Cash Vouchers, Purchase orders with Bills, Bank statements and other statutory related documents. After analyzing the books of accounts, they will submit the queries to Finance controller. After the explanation from the institution financial department, the financial statements will be prepared. The financial statements of the Institute provide a realistic statement through the audit report that the books of accounts reflect a true and fair view of the operational activities and the financial position of the Institute for the relevant financial year.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

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

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

6.17

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	View File
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Funds mobilization from various resources is detailed as below.

- Funds received mainly from Student Tuition fees are spent on payment of salary of teaching, non- teaching staff, recurring and non-recurring expenses of the Institution.

- Grants received from Government and Non-Government bodies are mainly earmarked for student Skill and Development activities. Trustees and Finance Controller of the Institution monitor the utilization of received grants.

Adequate funds are allocated for effective teaching-learning practices that ensure the quality of education.

Budget is utilized to meet day to day Operational, Administrative expenses, Capital, Maintenance of fixed assets, Green initiatives and Energy saving equipment. Funds are allotted and utilized every year for augmentation of library facilities to enhance higher learning practices of students.

Adequate funds are utilized for development and maintenance of infrastructure of the Institution. Funds are allocated for social service activities as part of social responsibilities.

Main motto of resource mobilization and optimal utilization of resources is to put Dr NGP Institute of Technology on benchmark in tune with quality teaching and unique growth of students.

- Bank Funding:

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

to the Institution.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5 - Internal Quality Assurance System

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

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

Practices institutionalized as a result of IQAC Initiatives:

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

The ADC is established to ensure preparation and implementation of academic calendar related to the academic aspects such as instructional planning and delivery, assessment and evaluation of student learning for theory, practical and project and periodical academic audits.

Regular feedback is obtained from stakeholders for Curriculum delivery, Enrichment programs, University question papers, Invited talks, Seminars, Workshops and Conferences

2. Establishment of IPR cell:

The IPR cell has been established in the year 2016 with the objective of converting the lab to land projects into patent. IPR scrutiny committees reviews and performs patent search for viability and recommends the patentable projects to management for sponsoring the application fees and consulting fees. Legal terms viz. patent claim, 3D drawing, specifications are incorporated into the application for patent filing

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

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

Periodical meetings for governance

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

Feedback on Teaching and Learning Process:

Feedbacks from students are obtained periodically by the Head of department in the course review meetings, TWM, CCM and end semester meetings, Course end survey, Graduate Exit Survey, Alumni Survey.

Action Taken and Impact Analysis:

Based on student feedback received in tutor ward meetings additional classes are provided for analytical courses to strengthen their learning ability.

Based on the discussion with students in class committee meetings, additional Placement orientation & Career orientation programmes in specific domains are organized in addition to already offered programmes for all the students to get the awareness on skill sets required for employability.

Based on the discussions in course committee meeting, special

classes for theory and lab sessions are arranged for the completion of the syllabus portion before the internal assessment

In semester end review meetings, orientations regarding the university examination preparation and additional revision classes for the slow learners are organized.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	Nil
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institution provides facilities to all the staff members and students towards promoting education that would be sensitive to

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

Gender Equity Initiatives:

The institution established gender equity and women empowerment initiatives through Gender Equity Cell (GEC) and Women Development Cell (WDC). The cells have organized 78 such programs exclusively.

Specific facilities provided for women in terms of:

1. Safety and security
2. Counselling
3. Common Rooms
4. Participation in Smart India Hackathon (SIH) and other events

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C7/7.1.1%20aditional%20information.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

A. 4 or All of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

The institution inspires inhabitants to remain eco-friendly through its campus. Besides having infrastructure, construction as per the necessity for an educational campus, the institution puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus. Monitoring and assessment of the green environment on the campus is done periodically.

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

Solid waste management

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

Liquid waste management

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

E-waste Management

Efforts are taken to identify the sources of e-waste in the institute through its e-waste management system through environmental awareness club (EAC) and it has vendors to dispose the e-waste materials. Separate store is maintained for E-waste storage.

Hazardous chemicals management

Institute produces only a negligible quantity of hazardous waste.

Yet, efforts are on to curtail its spread. Chemical waste is stored and given to authorized scrap agents for further processing.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

- 1. Restricted entry of automobiles**
- 2. Use of bicycles/ Battery-powered vehicles**
- 3. Pedestrian-friendly pathways**
- 4. Ban on use of plastic**
- 5. Landscaping**

A. Any 4 or All of the above

File Description	Documents
Geo tagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	No File Uploaded
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution	
7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	No File Uploaded
7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	A. Any 4 or all of the above
File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	View File
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

The institution focusses in bringing harmony and tolerance towards cultural, regional, linguistic, communal socioeconomic and other diversities to impart oneness in the minds of students. The objective is to imbibe parity thinking in students and staffs on all believes and practices followed by various cultures, regions, linguistic, communal socioeconomic and other diversities.

The Music and Dramatic Club, Uyir Club, YRC Club, Rotaract Club and Consumer Club established in the Institution ensure that the above said objective is imbibed to the student's community through various activities organized in the Institution.

Programs on Cultural, Regional, Linguistic & Communal Socio economic:

Yoga-The Natural Immunity Booster, Programme on Transition from School to College, Assertive Personality, redefining me, The Social Dilemma, Riding through tough times and Equipping for your bright future, Hone Your Soft Skills, Recycling and Reuse of Plastic Waste, Utilization of E-Waste in Construction Industry, Taste the Failures, Swachhta - Rural Engagement are few programmes conducted in the Institution.

Programs on Other diversities:

Alumni Series on "The Social Dilemma", STTP on Empowering The Moral Values, Ethics and behavioral attitude in Teaching Skills among Teachers in three phases, Riding through tough times and Equipping for your bright future, Hone Your Soft Skills, Department of Civil conducted National Level Virtual Conference on Recycling and Reuse of Plastic Waste Emerging Technologies in Construction Industry, Utilization of E-Waste in Construction Industry, Healthy and Well Being, Sky is the Limit, Social Entrepreneurship - Swachhta - Rural Engagement.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

The activities of the IIC, Music and Dramatic Club, Uyir Club, YRC Club, Rotaract Club and Consumer Club at Dr. N.G.P. Institute of Technology contributes towards inculcating the constitutional obligations say values, rights, duties, and responsibilities of citizen to the students of the institution.

As per the Recommendations of AICTE and UGC, programmes on Universal Human Values (UHV) are conducted for the students by the UHV certified faculty members.

The conduct of various activities under themes such as national values, human values, communal harmony, social cohesion etc., helps to remind, develop right behavior to reinstate constitutional obligations in each of their minds. Various departments conducted programs in online mode.

To name a few International Women's Day celebrations, Faculty Orientation programmes, Covid 19 Impact, Safe and clean environment for Healthy Living and Safety of Women.

Workshops conducted by IIC of the institution include Entrepreneurship and Innovation as Career Opportunity, Building Innovation Ecosystem in Educational Institutions and Importance of IP - Patent and Copyright, etc.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C7/7.1.9%20additional%20information.pdf
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized

A. All of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Dr.N.G.P. Institute of Technology has taken efforts in organizing national and international commemorative days, events and festivals during the year. All national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in students.

Every year students come together and perform cultural programs like dance, skits highlighting societal problems. Ex-defense or police persons are invited to share their experience, to inspire and to motivate young minds to contribute in building the nation.

National flags are distributed to faculty, staff and students to instill sense of pride amongst them. The NSS unit and the Student council organize many cultural programs to address prevailing social issues. The student, faculties and staff participate and rejoice during this celebration with great patriotic fervor.

The list of events is, Social Entrepreneurship - Swachhta - Rural

Engagement, Teachers Day celebration, Independence Day celebration and Engineers Day on Visveswaraya Day is celebrated

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	View File
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

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

1. Student Council

The Student Council provides an exposure to formal leadership in education and organization of activities for the students of the Institution

Objectives of the Practice

- To reflect a positive image of the institution always
- To promote an environment that is conducive for education and personal development

*However, in no case/situation Student Council shall not and cannot influence/force/alter the decision-making procedure of the administrative officials/Management.

The Context

- Integrating Students of multiple disciplines to work as a team

The Practice

- The members of the Student Council involve in arranging and conducting of the student related activities in the

Institution.

Evidence of Success

- Organized events for Faculty members of the Institution on Teacher's Day

1. Academic Audit

Academic Audit is regularly conducted in three phases every semester to examine and review the teaching and learning mechanism of the institution.

Objectives of the Practice

- To ensure the effective functioning of the academic system.
- To ensure academic accountability and define effectiveness of teaching-learning process.

The Context

Auditing is the backbone of an effective organization. IQAC and Academic Audit Cell helps the various departments to continuously upgrade the quality of the teaching-learning process through research, training, academic audit and quality assurance.

The Practice

IQAC plays an important role in improving the quality of academic and administrative activities of the Institution.

Evidence of Success

The follow-up actions are taken for maintain the quality.

File Description	Documents
Best practices in the Institutional website	https://docs.drngpit.ac.in/naac/AQAR_2021-2022/C7/7.2.1%20Two%20best%20practices%20successfully%20implemented%20by%20the%20Institution.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

INSTITUTIONAL DISTINCTIVENESS: The vision of Dr. N.G.P. 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.

Education & Research Ecosystem is developed in the Institution which acts as a decentralized learning and research ecosystem for professional development that intends to teach people how to build complete products in future technological fields and to improve their job skills.

Creating conducive learning and research environment with state-of-art infrastructure and laboratories and emphasize on inculcating ethical standards among students through outreach programs.

Education Related Outcomes:

100% Choice Based Credit System (CBCS)

80% of courses have focus on Employability, Skill Development and Entrepreneurship

90% of students undergo training / internships

Participative and Peer Learning

42 Clubs and Societies for Co-curricular Activities

1851 students benefitted by scholarships through Management, Government and NGOs

Research Outcomes:

73 Faculty members with Ph.D. out of which 27 Faculty Members with Ph.D. Guideship

4 Research Centres approved by the Anna University to offer Ph.D Programmes

192 research papers published in UGC Care journals

12 Industry supported collaborative laboratories

DSIR Recognition as SIRO (KMCRET)

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

To offer courses based on Choice Based Credit System (CBCS) with complete academic flexibility

To offer more one credit courses and Value added courses

To motivate more students to do projects through internships and inplant training at industries

Use 12-point indicators to motivate and monitor the performance of the students.

To enhance the teaching skills of the faculty members through Revised Bloom's Taxonomy (RBT), orientation programmes, Faculty development programmes.

To enhance the skills of students through practice of experiential learning, participative learning, and problem-solving methodologies in the courses

To encourage faculty members to pursue Ph.D. and increase the strength of Ph.D. holders.

To publish more research papers in the 'Scopus/ Web of Science

(WoS)' journals.

To submit proposals to various funding agencies

To promote interdisciplinary and multidisciplinary research activities in the Institution

To strengthen the innovation ecosystem jointly with IIC of the institution to conduct more research and IPR related activities

To conduct extension activities and outreach programmes

To increase the collaborations with industries, setup more Industry powered centers in the institution for research and development

To submit proposals to seek funds for students' projects.

To motivate the students to participate in Sports, Technical and extracurricular activities by providing platforms for expressing the students' talents

To empower the students to organize departmental events and institutional events.

To maintain the gender balance among the faculty and non-teaching staff members.