



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution		PSG College of Technology
• Name of the Head of the institution	Dr. K. PRAKASAN	
• Designation	PRINCIPAL IN-CHARGE	
• Does the institution function from its own campus?	Yes	
• Phone No. of the Principal	04222572177	
• Alternate phone No.	04222572477	
• Mobile No. (Principal)	9952756485	
• Registered e-mail ID (Principal)	principal@psgtech.edu	
• Address	POSTBOX NO. 1611, AVINASHI ROAD, PEELAMEDU, COIMBATORE - 641004	
• City/Town	COIMBATORE	
• State/UT	TAMILNADU	
• Pin Code	641004	
2.Institutional status		
• Autonomous Status (Provide the date of conferment of Autonomy)	25/02/1978	
• Type of Institution	Co-education	
• Location	Urban	

• Financial Status	Grants-in aid				
• Name of the IQAC Co-ordinator/Director	Dr. M. SENTHILKUMAR				
• Phone No.	04222572177				
• Mobile No:	9443751578				
• IQAC e-mail ID	coordinator.iqac@psgtech.ac.in				
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.psgtech.edu/NAAC/aqar ne.php				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.psgtech.edu/calendar.php				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.24	2019	28/03/2019	27/03/2024
6.Date of Establishment of IQAC			18/07/2017		
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
Nil	Nil	Nil	Nil	Nil	
8.Provide details regarding the composition of the IQAC:					
• Upload the latest notification regarding the composition of the IQAC by the HEI	View File				
9.No. of IQAC meetings held during the year	3				
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken	Yes				

uploaded on the institutional website?	
<ul style="list-style-type: none"> If No, please upload the minutes of the meeting(s) and Action Taken Report 	No File Uploaded
10. Did IQAC receive funding from any funding agency to support its activities during the year?	No
<ul style="list-style-type: none"> If yes, mention the amount 	
11. Significant contributions made by IQAC during the current year (maximum five bullets)	
Online overdue payment facility has been created in library.	
Academic Profile Management System for faculty has been created.	
Official email ids have been created for all faculty, staff, research scholars and students and encouraged them to use them for all official purposes.	
Digital contents for many theory and laboratory courses have been created	
Institution Innovation Council has been formulated under the directives of MoE, India. (available in college website)	
12. Plan of action chalked out by IQAC at 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
<ul style="list-style-type: none"> Compliance visit/information to be submitted for extension of NBA accreditation 	<ul style="list-style-type: none"> NBA accreditation status of BE Production Engineering, BE Biomedical Engineering, and BE CSE has been extended for one more year.
13. Was the AQAR placed before the statutory body?	No
<ul style="list-style-type: none"> Name of the statutory body 	

Name of the statutory body	Date of meeting(s)
Governing Council	15/11/2021

14. Was the institutional data submitted to AISHE ?	Yes
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- Year

Year	Date of Submission
31/01/2020	31/01/2020

Extended Profile

1. Programme

1.1	65
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2. Student

2.1	8028
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	View File

2.2	2253
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	9148
Number of students who appeared for the examinations conducted by the institution during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	3011
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	573
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	602
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	101
4.2 Total number of Classrooms and Seminar halls	193
4.3 Total number of computers on campus for academic purposes	5953
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	5863.71

Part B**CURRICULAR ASPECTS**

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curricula of PSG College of Technology are developed / updated by always taking in to account the rapid changes that are happening in the industry and society. The advent of Industry 4.0 and the requirement of industries for human resources in the areas of Artificial Intelligence, Machine Learning, Big Data Analytics, Data Science, Cyber Physical Systems etc. resulted in the introduction of new programmes in some of these areas and in the introduction of new courses in others in the existing programmes. The curricula are developed or updated through discussions with stake holders from industries by bringing them as members of our academic statutory bodies like Programme Advisory Committee and Boards of Studies in the department level and Academic Council in the institution level. Information about the societal and industrial needs are also obtained from reputed Alumni who are in executive positions in industries and also from reputed academicians from institutes of higher learning like IITs, IISc and NITs. The curricula are developed / updated with the inputs from above and through the academic experience gained by faculty members of the college based on their teaching, research and consultancy practices. As an autonomous college, the curricula are designed and implemented within the framework of guidelines given by regulatory bodies like Anna University, UGC and AICTE.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	https://www.psgtech.edu/index.php

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

43

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

257

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

118

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

65

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

Students are sensitized about issues relevant to Gender, Human Values and Professional Ethics through the Induction Programme organized for all the students of UG programmes in their first semester itself. These issues were further emphasized through activity point programmes organized from 2 to 6 semesters as per AICTE mandate. A mandatory course on Environmental Science is being offered for all the BE/BTech students in the 3rd semester as per the current 2019 regulations. This course gives an overview of the environment in which we live, its importance for leading a healthy life now and in the future, conventional and renewable energy resources, the need to move towards renewable energy resources in the years ahead, environmental pollution, waste management to minimize its effect on environment and societal issues that affect the environment. A course on the Sustainable Development Goals (SDG) mandated by United Nations Organization is offered to all the ME/MTech programmes as a mandatory course. Several faculty members from each department were trained in understanding the importance of SDGs through faculty development programmes organized outside the college so that they can handle the course on SDGs.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

14

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

929

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1424

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni **B. Any 3 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.psgtech.edu/NAAC/criteria_1/criteria_1.4.2.php
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.psgtech.edu/NAAC/criteria_1/criteria_1.4.2.php
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1868

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

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

1530

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

- PSG College of Technology identifies learners as slow learners and advanced learners based on a wide range of ongoing assessment components, such as Home Assignments, Class Assignments, Seminars, and Group Discussions.
- Assignment presentations, quizzes, class tests, projects, internships, viva-voce examinations, and attendance are furthermore done for effective evaluation of students' learning levels.
- Moreover teacher-student interactions, class committee meetings, and tutor ward meetings assist in the identification of different levels of learners.
- Faculty members and tutors examine the students' academic progress on a regular basis and direct them in order to enhance their performance which assures their academic progression.
- Class committee meetings being a good platform for the students and the faculty member address the grievances and find the possible alternatives for the potential growth.
- Students are encouraged to interact with course instructors during the scheduled free time to discuss academic challenges.
- Extended Learning - students learn beyond the allotted time through communication media.

The following are special measures designed to assist relatively slow learners.

- Remedial classes and extra classes are offered to help the slow learners, absentees, and the students who participate in sports and other activities in order to improve their academic performance.
- Remedial classes support the slow learners to improve their subject knowledge and reaching up with their peers.
- Encouraging slow learners to take courses on building communication skills in order to achieve language comprehension, if required.

- Slow learners who are unable to understand the concepts in regular classrooms are assisted by having their doubts clarified, repeating important concepts, and providing extra assignments to reinforce their learning.

The following are special measures designed to assist advanced learners.

- Internal assessment, end semester examinations, and classroom participation are used to identify the high-performing students.
- Students are encouraged to join professional bodies such as ACM, IEEE, ASME etc.
- Motivating the students to submit research papers to peer reviewed journals.
- Students are encouraged to participate in various hackathons and are given opportunities to work on various interdisciplinary projects to develop their innovation through the Institute Innovation Council (IIC).
- Students are motivated to take up competitive examinations such as GATE, GRE, TOEFL, IELTS, CAT, and other similar exams.
- MOOC Courses - Swayam, Coursera, and others like AWS, CISCO are recommended for the advanced learners.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://moodle.amcspgtech.in/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2021	8028	571

File Description	Documents
Upload 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 believes in using student-centric approaches to enhance student involvement as part of participatory learning and problem-solving methodologies to cultivate habits that promote lifelong learning behaviours among students. Teamwork, debates, seminars, quizzes, and case studies are indications of student-centric teaching methods that are reflected in project work, field trips, industrial visits, and guest lectures.

Experiential Learning Experimental learning makes learning an experience beyond class room in a more involved way. Mini Projects, Summer Internships, and Final Semester Projects are essential element of each programme

Summer Internship: Students will gain hands-on experience in a corporate environment. Students will be exposed to the most current technological advancements that are essential for successful placement in top-tier industries.

Laboratory experiential learning: Learning by doing is critical for developing a deep understanding of a subject. As a result, faculty members make every effort to expose the students to as many laboratories as possible. Since first-year, where as Physics, Chemistry, and English labs are exposed. Later in their second year, students are given in-depth exposure to their core lab experiments.

Participation in HACKATHON: Students are encouraged to participate in national and international programme contest to gain real-world experience and improve problem-solving skills.

Industrial Visits: Every Department in the college plan and organise industrial visits for students to expose them to the work culture of industry.

Guest Lecture: To support the teaching process and give an experiential learning, lectures are given by industry experts.

Participated Learning

Role play: Instructors will use role play as a supplement for teaching in courses such as software project management, and communication systems that will operate as a form of participative learning.

Team work: Students' events are organised by all departments to encourage the culture of teamwork. The activities and Camp of NSS,

institutional social responsibility through Red Cross, Village Adoption, Tree plantation and Health awareness camp to help the students to learn the art of living in a team for Social and Community welfare.

Debates: Debates are used in various disciplines where learners are asked to present multiple viewpoints and thought processes, resulting in the learning process being justified in an argue-mental way that support students in clearing Group Discussions in placement.

Problem solving Methodology

Case studies: The case study method is used in the teaching learning process to help the students develop logical thinking skills and practical knowledge in order to improve their problem-solving abilities.

Analysis and Reasoning: Innovative and interdisciplinary projects are encouraged among the students. The students are made to identify the real world problems and find appropriate solutions for the same in a technical way. The obtained solutions are analysed and is recommended by the faculty for conversion into product samples.

Quizzes: Students' clubs enable students to innovate and participate in various competitive events - eg. Coding Club. All courses have quizzes administered by course instructors.

Research Activities: Under the supervision of senior faculty, research activities are performed in each department, where students of final year & pre-final year gain knowledge of new areas and are encouraged in publishing research articles in reputable journals.

PG Conference: The PG conference encourages students to explore recent research areas and promote knowledge interaction. This event also gives an amazing and accessible platform for our higher degree students to demonstrate their creativity and resilience. Presenting authors are encouraged to highlight the research challenges they encountered and the inventive approaches they used to overcome those challenges in their work.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

- ICT-enabled technologies and online resources are employed in the teaching-learning process to help students to improve their learning abilities.
- MOODLE, Google Classroom, and the Nucleus platform (In-house developed), among others, are used to manage the learning process and resources.
- It allows monitoring of students' learning processes through online quizzes, online assignment submission, and so on.
- Free digital tools for class activities were used in teaching learning process. Eg: GeoGebra is It gives a visual treat for many of the concepts in Mathematics.
- Instructors are exposed to the latest technology and tools through continual training in order to provide the best learning experience for their learners.
- Every instructor must upload their student's attendance, internal assessment marks, tutorial and assignment presentation scores to the web portal, along with feedback on the course and class they taught.
(<http://academicbcs.psgtech.ac.in>).
- Students, on the other hand, can access all of their academic information using the ecampus portal
(<https://ecampus.psgtech.ac.in/studzone2/>).
- Every course in every semester requires students to offer online feedback on the curriculum and teaching-learning environment.
- All Instructors and students have access to a wide choice of e-resources through the PSG Library's remote access services, which are open 24/7.
- General ICT Tools used by the faculties are: Desktop and laptops, Projectors, Digital cameras, Printers, Photocopiers, tablets, Pen tables, Pen drives Scanners, Microphones, Interactive white board, DVDs and CDs, Flash discs.
- Surprise quizzes encourage class preparation, attendance and, ensure the students to participate in class discussion designed to reinforce learning.
- The Mentimeter tool is used to conduct surprise quizzes online. (Mentimeter is an online polling tool that can make a

class more interactive).

Nucleus

<https://nucleus.amcspgtech.in/login>

Moodle

<https://moodle.amcspgtech.in/login/index.php>

E Resources

<http://events.psgtech.edu/library/>

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://nucleus.amcspgtech.in/login
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

187

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The Academic calendar was prepared for the two semesters of the academic year 2020-21 considering a duration of 16 weeks per semester for teaching, learning and assessments. The assessments include tests, assignments / tutorials / quiz / presentations. The Academic calendar was prepared well in advance at the end of the even semester of the previous academic year 2019-20 and the same was made available to the faculty members, the students and on the official college website.

Faculty were instructed to prepare a detailed course plan for the subjects to be taught by them at the beginning of the semester containing weekly teaching contents, tutorials / assignments/ presentations/ quizzes planned to conduct. The course plan so prepared by the faculty members was reviewed by the Head of the Department and the same was made available to the students through the college website. For the courses taught by multiple faculty members a common course plan was prepared.

Periodic class committee meetings with the respective faculty members, selected students, mentors and HOD were conducted to review on the teaching and learning process. Faculty also have provisions to record deviations to the course plan with reasons in the existing course plan link.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

573

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

337

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

6497

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

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

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

56

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

- End Semester Examination Reforms / Innovations :
- AI based Proctoring Online platform for conduct of examination :

The End Semester Examination is conducted by online method using Artificial Intelligence software equipped with remote proctoring as against the traditional pen and paper examinations.

The examination software use face recognition module which checks the student's live captured photograph with the photograph which is available in COE database. This will ensure the student authentication before start writing the examinations and prevent impersonation.

Further the examination AI system scans the environment continuously to ensure there is no cheating aids or obstructions falsification. It also monitors continuously the eye contact of the candidate, presence of multiple persons in the room, any suspicious activity done by the candidate and reported back to the administrator. The data collected are stored in the cloud and can be collected and analysed at any moment in time.

- Question paper pattern :

The question paper pattern is transformed to Multiple Choice Question type from descriptive type. The question paper used in the examinations has only one section with all MCQs. This MCQ pattern allow for assessment of a wide range of learning objectives in the particular course. This will also facilitate automatic scoring by the software without glitches, which helps to measure the learning outcomes consistently.

- Question bank system

An expert committee at department level for all the courses has been formed to prepare a question bank with maximum number of questions for individual courses. As and when required the committee will meet and review the quality and quantity of the questions in the question bank. Thus the question bank is periodically updated with a large number of quality questions.

- Question paper generation for semester exams :

The question paper is generated by rule based method which will ensure that all the questions in the question paper are taken with the pre defined criteria such as syllabus coverage, blooms taxonomy level etc.

The rule based question paper generation method will make sure, sending of different question papers to individual students in a

course, as the question papers are generated from the question bank. The questions and options are also jumbled for each question paper as stringent measures for curbing malpractice.

- Training the faculty in digital exam platform:
 - Designing MCQs in digital platform: An intensive training was organised to all the faculty members on preparing question bank and uploading it in the digital examination platform. The training comprised of the macro and micro level strategies used for designing effective MCQs to assess various height of learning outcomes.
 - Manual Proctoring: A training on manual proctoring along with the machine proctoring in the digital examination platform for all the faculty members was also conducted. Manual proctoring makes the online examination stringent and align the students perfectly in line with the examination process. Any infringement observed during the examination is noted by the manual proctor and reported immediately to the examination cell for further actions.
- Addressing student grievances during the examination:

In order to support the students during the online examinations, a good number of exclusive helpline numbers are allotted and informed to the students. The students communicate to the helpline numbers if any issues faced by them while writing the examination in online. This facility makes the student comfortable and confident in attending the online semester examinations without any hassle. Any issues received through the hotlines were immediately analysed and addressed to facilitate the students to continue the exam. Some grievances which could not be resolved during the examinations were collected through the examination cell email, acknowledged and addressed at later stage.

- Continuous Internal Assessment (CIA) integrating IT

An exclusive IT portal which can be accessed via both internet and intranet, is available for all the faculty with unique login id to enter the CIA marks for different assessment components for all the students.

A separate IT portal from our college is available to all the stake holders with individual login ids to access the information related to examinations such as CIA marks, Examination Time table , Examination Fees , Examination results and the seating arrangement

pattern (for off line exams).

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://admin.exams.psgtech.ac.in/login

2.6 - Student Performance and Learning Outcomes

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

Program Education Objectives, Program Outcomes, and Course Outcomes are clearly specified and published on the Institute's website, and conveyed to instructors and students for all the programmes offered by the Institute. The institution uses the following mechanism to convey learning outcomes to teachers and students.

- During the obligatory Orientation programmes, all students are informed about the objectives and expected outcomes of their programme.
- Students are also educated and given a detailed curriculum, course outcomes, and assessment strategy for each course.
- The POs, PEOs, and COs can be accessed on the college website.
- The significance of learning outcomes will be highlighted to the instructors during the Department meeting.
- Workshops is also conducted at the college level to develop the Program Educational Objectives and Learning Outcomes.
- The course outcomes, in general, focus on the student's readiness for placements, higher education, research, entrepreneurship, and competitive examinations.

Links

Vision & Mission Statement

<https://www.psgtech.edu/abtcllg.php>

Program Outcomes of Departments are available at the Department Websites

<https://www.psgtech.edu/index.php>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Method of assessment of POs / PSOs

The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods. Direct methods include direct examinations or observations of a student's knowledge or abilities in relation to measurable course outcomes. The programme outcomes are evaluated, and the PO attainment level is determined by the Program Assessment Committee.

The results of the final examination are published at the end of each semester, and the course outcomes are assessed. At the end of each module, students are given assignments to help them appreciate the expected outcome of the subject. Each semester, two internal tests are administered

- Ascertain that students have attained the appropriate level of proficiency.
- To determine, whether the associated COs have been satisfied or not.
- Depending on the student's performance in answering each question, mapping is done with the relevant COs to analyse the attainment level of the specific CO of the course.

The institution also tries to attain the course outcomes and program outcomes by conducting the activities such as cultural activities, N.S.S, Career Counselling, Personality Development Program, and Communication Skills, Lectures, Health Awareness Programs etc.,

In outcome-based education, a feedback system is employed to improve the teaching-learning process. An alumni survey is a valuable tool for determining the degree to which the programme is relevant to the industries desired competencies.

Employer surveys are undertaken to determine whether the information, skill, and attitude acquired from this institution meet their expectations or not. The purpose of conducting a student exit survey once a year is to identify numerous aspects for future strategy framing.

PSG Tech has implemented an outcome-based education system to ensure that CO and PO are met. The objective and outcomes are effectively mapped for student testing and evaluation, ensuring that PSOs are achieved through competency mapping in terms of knowledge and skills.

Direct Assessment methods • Continuous Internal Evaluation

• Group discussion • Laboratory performance (Term work) • Student projects • Assignments • End semester examination Result

The score of this assessment is taken into account for evaluation CO's.

Indirect Assessment Methods

- Placement
- Feedbacks
- Alumni survey
- Co-curricular activities
- Extracurricular activities

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

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1995

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	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://www.psgtech.edu/NAAC/criteria_2/criteria_2.7.1.php

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Promotion of Research

Having achieved a reputation as an excellent academic institute, there has been a paradigm shift to achieve excellence in research. As a measure to create a forum to discuss emerging research trends in various domains of engineering and to promote interdisciplinary research, Research Council has been established at institute level. The constitution of research council is

- Principal & Chairman
- Dean IR&D, CSRC
- Dean, Administration
- Dean, Academics
- Dean, Autonomous Functioning
- Dean, Computing and Networking
- Dean, Placement and Training
- Dean, Students Affairs
- Controller of Examinations
- Heads of Departments and Programme Coordinators from every department

The Research Council meets twice in an year to discuss on the research plans of individual departments, research

electives/research related one credit courses to be introduced, additional research facilities to be established and multidisciplinary research that could be taken up.

A team of Visiting Professors and experts from India and abroad serve as R&D advisors and advise the faculty on the nascent fields of research and also keep updating on the new proposals that are invited by different funding agencies.

Faculty members are encouraged to get engaged in industrial consultancy and research. PSG college of Technology financially supports faculty in filing patents for their innovative ideas. Few commercially successful technology transfers were also made.

The research potential of the faculty members is evident by their publications in journals of repute, conferences conducted, funded projects and patents earned by them, etc. PSG College of Technology has established itself as a recognized Research Centre of Anna University for doing independent research leading to M.S or Ph.D. degrees. More than 600 research students are currently working full-time or part-time for their Ph.D degrees.

To monitor the research activities of doctoral research scholars, a student research committee has been constituted to conduct periodic review and support in furthering the research work.

Seed money is provided to faculty members of the institution to support the initial activities of research.

In order to inculcate research in the minds of students, a Student Research Council (SRC) is established with an objective of using the knowledge gained by students through their course and the unconventional thinking in creating innovations. Students are motivated to implement their conceived idea through appropriate funding.

- PSG Centre for Sponsored Research and Consultancy (PSG-CSRC) was established in 1989 in order to foster industrial consultancy and research. Consultancy work and testing of materials / products are being carried out for several Government and private industries and organizations by all the departments of the college through the centre.

The PSG-Science & Technology Entrepreneurial Park (PSG-STEP) was established in the year 1998 with the support from Department of Science & Technology, Government of India, IDBI and ICICI at PSG College of Technology to promote technology based enterprises in the areas of software, electronic products, hi-tech mechanical products, and eco-friendly textile products & bio-technology using the core strengths of PSG College of Technology. Incubation centre is available to accommodate 45 startups at one point of time and so far, have assisted more than 130 start-ups.

PSG - Industry-Institute Partnership Cell (PSG-IIPC) serves as a liaison between our institution and industries that are willing to collaborate in addressing the challenges in the thrust areas of research. Faculty members guide the students during their internship in industry to solve specific industrial problems.

PSG - Industrial Research and Development (PSG-IR&D) centre has a mission of bringing Industry and Institution together by providing technical R&D services to the industries. Full time engineers guided by the faculty do the R&D service to industry.

There are about 43 Centres of Excellences at PSG College of Technology established in collaboration with industry of repute spanning over a wider spectrum covering almost all the domains in Engineering. The following is the list of CoE at PSG College of Technology:

- PSG - NI Virtual Instrumentation Centre
- PSG - Festo centre for Pneumatic automation & Control Engineering
- PSG - Siemens Centre of Excellence in Automation
- PSG - Heidenhain CNC Centre
- PSG - Lectra Apprael CAD Centre
- PSG - SIRUBA-MEHALA Apparel Machinery & Equipments Centre
- PSG - ELMAQ ERP Training Centre
- PSG - Cognizant Open source Software Centre
- PSG - Juniper Centre of Excellence in Networking
- PSG - Freescale Embedded Systems Lab
- Karivardhan centre of Excellence in Automobile engineering
- PSG - Adept Centre for Robotics
- PSG - Ranal Centre for Software Testing
- PSG - Ashok Leyland Automotive Research Centre
- PSG - Techtronics Centre for Excellence in Robotics
- PSG - IBM Centre for Excellence in Operating Systems

- PSG - Cypress - PSoC Design Centre
- PSG - Siemens PLM Training Centre
- PSG - Exilant Textile ERP Centre
- TIFAC - CORE in Rapid Prototyping and Manufacturing
- PSG - Yuken Hydraulic Automation centre
- PSG - Rockwell Centre for Excellence in Industrial Automation
- PSG - L&T Centre for Excellence in Low Voltage Switchgears
- PSG - Premier Textile Technology Centre
- PSG - ASSYST BULLMER - MEHALA Fashion Studio
- PSG - Kawabata Centre for Fabrics
- PSG - Infineon Embedded Systems Centre
- PSG - Agilent Centre for Advanced RF Design
- PSG - TCS Centre of Excellence in Software Engineering
- PSG - Intel Multi Core Lab
- PSG - DRDO LSRB Wireless Telemetry Lab
- PSG - Fanuc Centre for Advanced CNC and Robotics
- PSG - Eplan Centre for Electrical CAD
- PSG - Rane Automotive Test Centre
- PSG - GENERAL MOTORS - PACE Centre
- PSG - DANFOSS Centre of Excellence for Energy & Climate Change
- PSG - Supra SAE Lab
- PSG - Juniper Networking Lab
- National MEMS Design centre
- PSG - SIMA Textile Technical Training Institute
- PSG - Welding Research Centre

Other basic facilities available for research are

- High speed internet facility with a bandwidth of 380 Mbps.
- Library with a collection 1,87,874 book volume covering the book titles of about 1,23,997 and 2438 journal subscriptions.
- Updated computing facility (including high speed computing facility) with good support system. Licensed software's are available for research use.
- High quality machining facility and rapid prototyping facility are available.
- 24 hours power supply with the provision of a generator backup of 2010 kVA, 560 kVA UPS backup
- Generic and specialized software tools for simulation and modeling

I) Aims of the Policy

The research policy of PSG College of Technology aims to create and support a research culture among its teachers and students and

leverage it for enriching and enhancing the professional competence of the faculty members. It also promotes the scientific temper and research attitudes of all learners leading to the realization of the vision and mission of the college. It also aims to ensure that the research and development activities of the college conform to all applicable rules and regulations as well as to the established standards and norms relating to safe and ethical conduct of research.

II) Scope of the Research policy

This policy is applicable to all the research and development activities of the college carried out by faculty members as well as students including the following:

- i) Research and development activities related to the basic and applied research undertaken for fulfilling the academic requirements or for solving Industrial problems
- ii) Publication, presentation and communication of the research outcomes and related activities.
- iii) Filing of patents based on the research outcomes
- iii) Creative activities involving the generation of new ideas and innovations leading to the development of a new knowledge and expertise.
- iv) Compilation and communication initiatives for keeping abreast of academic developments in any knowledge domain such as writing of text books, chapters of text books, lab manuals, monographs including the process of updating curriculum.
- v) Sponsored research projects funded by various central as well as state governments funding agencies and industries.
- vi) Offering consultancy to industries including process improvement and product development.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.psgtech.edu/research_index.php
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.241

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

3

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

265.92489

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

32

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

199

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

13

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://dst.gov.in/
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Institution's Innovation Council (IIC) is a non-profit innovation promotion ecosystem functioning at PSG College of Technology which is dedicated to promote innovation and entrepreneurship among its faculty and students. IIC has been established with a vision to establish a vibrant innovation and entrepreneurship ecosystem to develop indigenous and sustainable solutions for addressing the societal needs. IIC supports staff, students, alumni, faculty and R&D partners in developing innovating solutions and to translate the technologies developed at its laboratories to reach out to the public as products, processes and services to benefit the society at large, which is synergetic with the institution's overall vision.

The Innovation & Start-up Policy document of IIC seeks to set clear guidelines and framework for technology transfer and commercialization of the technologies developed by the college, IPR ownership management, and technology licensing and venture development thereby striving to create of a smooth Innovation and Entrepreneurship ecosystem across the entire institution.

The major responsibilities of the IIC includes, but are not limited to:

- Organizing innovation promotion activities and events
- Organization of campus level Hackathons / idea generation events
- Providing seed funding support for promising innovative ideas
- Organizing Incubation Training and Entrepreneurship orientation for faculty mentors thereby building in-house expert pool for I & E related activities
- Establishing Regional, National and International linkages for the budding student entrepreneurs
- Building Innovation hub /Maker Space facilities with state-of-art pre-incubation facilities

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.psgtech.edu/IIC/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software B. Any 3 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

File Description	Documents
URL to the research page on HEI website	https://www.psgtech.edu/research_index.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.82

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.2565

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

2831

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-

Index of the University**3.4.6.1 - h-index of Scopus during the year****16**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy**3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)****50.567**

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year**67525501**

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

From instilling patriotic spirit to hands-on tree plantation activity, National Service Scheme, PSG College of Technology has created an everlasting impact on students. 50+ students took part in the tree plantation drive. Around 70 students pledged to achieve carbon neutrality through "Not Zero, Net Zero" initiative. To foster the idea of recycling and reusing wastes, "Wealth Out Of Waste" event was conducted, where around 30 students took part and showcased their creative solutions in making wealth out of waste. Almost 25 real life problems were addressed and solutions for the same were elicited by the participants through the "Click and Decode" event. Under the central government initiative "Ek Bharat Shreshtha Bharat", almost 25 students displayed India's rich cultural heritage and their patriotism through songs, dance and poetry. More than 100 students participated and got benefitted on healthy food habits through "Healthy Food for a Healthy Life" webinar. With around 800+ registrations from 40+ colleges, ASTRA, an intercollege event was conducted. The event addressed several societal problems and provided solutions for the same. Around 300 students participated in unit wise meetings and got to know more about NSS and its activities. To commemorate 75 years of Indian Independence in 2022, "Azadi Ka Amrut Mahotsav" was celebrated with various events like guest lecture on lessons learnt from India's freedom struggle, quiz based on India's freedom struggle and creative writing contests. Under the central government initiative "Unnat Bharat Abhiyan", a team also visited the adopted villages on 28th March 2021, noted down the difficulties they were facing and

are currently working on a technological solution to address the issue of reducing water consumption in agriculture. More than 40 students participated in creating awareness posters and videos on COVID-19 vaccination through the event "Pixel Hunt and Cinimatrons". With many more initiatives focusing on voting, elimination of single use plastics, National Service Scheme, PSG College of Technology stood with the students in these tough times and infused social awareness in them. In total, the National Service Scheme of PSG College of Technology impacted 1300+ participants through several initiatives during the academic year 2020-2021.

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

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

19

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

9

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

404

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

868

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

21

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

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 equipments, etc.

The College (47.04 acre) has adequate facilities and has augmented its infrastructure to provide good ambience for learning. All the classrooms (183 class rooms, 10,108 m²) are well-lit by natural light through large windows and by LED lighting. Ceiling fans, Green Glass Chalk Board, Digital writing pad, LCD projector & screen with audio equipment's are fitted in the class rooms. 13 Smart boards in

the class room's boosts attentiveness of the students. 89 Class rooms are equipped with PC & 100 Mbps internet facilities. Wi-Fi facility is provided in reading areas and in hostel to enhance the student's learning. Laboratories (18,540 m²) are well equipped and upgraded through TEQIP Schemes and Management support. Centre of Excellences (56) supported by leading industries are used to impart advanced technical skills. Seminar halls (3174 m²) & Auditorium (1264 m²) with ICT facilities are used for knowledge sharing, placement trainings, alumni interactions, and skill development activities. 5953 computers are used in teaching learning process for both students and faculty members. Simulation Softwares for laboratories and R&D activities are supported by Powerful server with high-speed network. Knimbus digital library platform provides remote access feature of all resource links in the e-Library.

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

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

The Department of Physical Education covers an area of five acres located near the hostel premises. The department is headed by a Physical Director, assisted by two Assistant Physical Directors and two Physical Training Instructors along with two markers as supporting staff. The activities are held throughout the year, every day, from 6.30 am to 6.30 pm. The department has sufficient facilities for both indoor and outdoor games for the students to practice and to conduct Intra-Collegiate, Inter-Collegiate tournament and Coaching Camps. The infrastructure includes a Football field and a Hockey field, indoor stadium with two Basketball courts with lighting facility, two Handball courts with gallery, three synthetic Tennis courts with gallery, four Volleyball courts, one Throwball court, two Ball Badminton courts, two Sepaktakraw courts, two Tennikoit courts, one Kho-Kho court, three Cricket pitches for net practice and one pitch for playing matches. An open air stadium with a stage, a pavilion on both the sides with a balcony gallery which can accommodate about 500 students and a VIP lounge is also available.

The facilities in the department enable students to participate in indoor games also. There are two games halls with each measuring 80'

x 40'. The games halls have the provision for playing Table Tennis and Chess, a gym is also attached with the games halls. The gym has been equipped with number of single and multi-stationed equipments and other weight training accessories are also available to provide the students an arena to keep themselves fit. In addition to one old indoor badminton court (80' X 40') which is available with a seating capacity of about 100, two more new courts were established by our management (100'x40') with a seating capacity of 200. Facilities such as two parallel bars, one pull-ups bar, climbing rope and roman rings are also available for the students to develop their physique.

In order to provide an opportunity to exhibit their talents various intramural tournaments are organized. Training on advanced skills and tactics are being conducted for the college team players by inviting eminent coaches. Boys are facilitated with facilities to participate in 15 different disciplines including events for differently abled and girls with 9 disciplines. The annual record reflects the teams' strength and their position University level. The students have show cased an impressive and consistent record of performance in almost all games and sports. They take part in the Inter-collegiate, Inter-University and various other local tournaments and have won many laurels.

Apart from various intramural and extramural competitions, we also conduct state level and national level basketball tournament, state level inter collegiate handball tournament, sepaktakraw tournament and a hockey league every year. These tournaments are completely organized by the students which give them an excellent opportunity to develop their leadership qualities and managerial skills as well.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

113

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

3582.31

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

PSG Integrated Library Management System (PSG-ILMS) 5.0 is fully automated with the configuration of Microsoft Framework 1.1 (VS 2003), Oracle 9i, and Windows in 2015. Web OPAC is functioning with the configuration of Microsoft Framework 4.5 (VS 2012), Oracle 11g, and Windows 8. Advancement of Information technology shifts the In-house library management software from SYBASE to Windows 8 platform for the ease library operations. This In-house ILMS have the modules for Acquisition, Circulation, OPAC, E-Gate, Serials Control and Reports. Students can search the resources through OPAC campus wide access. It allows the users to search the Main library collections, Department library collections as well as the E-Resource Collections. All types of E-Resources links are integrated in the OPAC Homepage which facilitates the users to access through IP from their desktop itself. Integration of Library management Software developed in the following frameworks.

2000

2004

2006

2010

2015

SYBASE

Microsoft Framework 1.1 (VS 2003), Oracle 9i, Windows

Microsoft Framework 2.0 (VS 2005), Oracle 10g, Windows XP

Microsoft Framework 3.5 (VS 2008), Oracle 11g, Windows 7

Microsoft Framework 4.5 (VS 2012), Oracle 11g, Windows 8

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

- Name of the ILMS software : PSG Integrated Library Management System (PSG-ILMS)
- Nature of automation: Full
- Version :5.0
- Year of automation: 2000
- For additional information : <http://opac.psgtech/>

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://events.psgtech.edu/library/about-us.php

4.2.2 - Institution has access to the following: e- journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

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

99.40821

File Description	Documents
Audited statements of accounts	View File
Any additional information	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 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

598

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

IT INFRASTRUCTURE

The IT Team of PSG College of Technology provides open, agile and adaptive software-driven educational networking solutions and secure digital transformation of education which improves learning outcomes.

Networking Solutions

During November 2017, the Network was upgraded to three tier topology architecture from 10 Mbps to 10 Gbps connectivity. It was segregated with multiple Virtual LAN Network for Wired, Wireless and Server farm network access.

802.11ac Wave2 based APs were procured in October 2018 and the Academic and Hostel Zones were made as Wi-Fi Campus. 500 Cameras are connected through separate Fibre optic to provide secured environment. Around 6300 computer systems are interconnected and used by Staff and students.

Data Centre

Virtual servers have been set up using high end servers and storage hardware with VMware and vSphere. Redundant Core Switches on VSS and Firewalls in High Availability Mode are deployed. This facility was established during March 2019, with a cost of Rs 1.5 Crore.

In-house Maintenance Cells

An online ticket tracking system was introduced where the staff members of Computer Maintenance Cell, Network Maintenance Cell and various other cells will rectify the problems faced by the end users immediately. This was developed and successfully implemented during September 2010.

Internet

Around 70 websites have been designed, developed and maintained in-house. Based on the Internet usage by the staff and students, the bandwidth procured from Internet Service Providers vary from 48 Mbps to 1400 Mbps over a period of seven years.

Content Management System

The Website of PSG College of Technology was made dynamic by building a content management system which enables each faculty to update their profile. This system was developed during December 2017.

Online Tools

During the pandemic period, the following online platforms such as Google suite, Microsoft teams, Cisco WEBEX and LMS tool MOODLE are being used for handling online classes for all Programmes from July 2020 to till date. An automated report generation software which

takes input from Google meet Log server has been developed. The report contains the total number of hours and sessions handled for each of the courses.

Security Assessment

Security Assessment Audit was done by M/s. Cosmogenic IT Solutions Pvt Ltd, Coimbatore during February 17th, 2021

Services Provided

The IT infrastructure provides support for the students and staff for all their academic and research related activities and remote access of Library resources and e-journals efficiently. This facility is fully utilized for e-Governance of the Institution. In addition, it supports PSG Software Technologies and PSG STEP (Science and Technology Entrepreneurial Park) for their innovative contributions.

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
8028	5953

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 250 Mbps

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

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

C. Any two of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

2281.40

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The separate system is available for maintaining electrical equipment's, Buildings, Computers Electronic Equipment's, and laboratory equipment's. Users can register their service needs through <http://maintenance.psgtech/> intranet website for getting service from electrical, plumbing, networking and computer technicians. Class rooms service support is provided by information desk established at each block. DG set, UPS, Lifts, and other major laboratory equipment's are covered under Annual Maintenance contract. Utilisation of seminar halls and facilities are made easier through online hall reservation system using <http://halls.psgtech>. Students welfare committee will meet at regular intervals to resolve the issues if any in the facilities. Digital library maintenance and updating e-learning facilities and software is regularly monitored by the dedicated library committee

Under the Physical Director supervision, the indoor and outdoor games, Gyms, yoga training facilities are maintained well in a systematic manner. Maintenance of sports complex is taken care by separate team from hostel maintenance. Fire fighting system with dedicated staff is deployed in the campus, training to the students and users are provided at regular intervals. Drinking water dispenser unit is maintained by external agency and the testing of water quality is ensured by regular sample test. Waste water treatment plant is operated and maintained 24 X 7 by dedicated team.

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1153

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

95

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised **A. All of the above**

**for improving students' capabilities Soft Skills
Language and Communication Skills Life
Skills (Yoga, Physical fitness, Health and
Hygiene) Awareness of Trends in Technology**

File Description	Documents
Link to Institutional website	https://www.psgtech.edu/
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

837

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

B. Any 3 of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

953

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

129

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

147

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

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

22

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students union of PSG College of Technology is a large wing which provides opportunities for the development of technical skills and knowledge through the various affiliated associations and promotes social, cultural and literacy activities through the various affiliated clubs. The students union is represented by chairperson, co-chairperson, secretary (men), secretary (women), secretary (science) and guided and monitored by Dean, Associate Deans and a team of faculty advisors. The office bearers of the students union are selected through a rigorous process by a team of faculty constituted by the Principal. The activities of students Union are governed by by-laws. The students union has a general council comprising of office bearers, general secretary of the hostel (men & women), and two secretaries of the previous year, sports secretary, secretaries of the affiliated clubs and associations, and class representatives. Students Union functions with 25 Clubs and 38 Associations which are guided by nearly 100 faculty advisors. Five NSS units, Four NCC wings and Physical Education activities play a vital role with additional support of Students Union in enhancing the personality traits of our students. Each club has students representation in the form of two secretary (1 boy & 1 girl) and executive members elected every year to run the club with the guidance and support of the faculty advisors. Co-curricular and extra-curricular activities, seminars, workshops, interactions with experts are organised by the clubs and associations to develop the

personality, leadership and communication skills of students throughout the year. Associations provide a forum for discussing topics of general and technical interest and organize activities to promote their technical knowledge and to improve their understanding in the field. Every year, General Council Meeting is conducted by the students union in order to discuss the issues raised by the students. The students union is a democratic forum that finds solutions for the problems of the students related to academic and non-academic. The class representatives, secretaries of various clubs, associations, NCC and NSS attend various meetings and discuss about any issues/ problem or any other need for the Students welfare. The academic meetings represented by students includes Class Committee Meeting, Board of Studies and Academic council. Class Committee Meeting comprises of a boy and a girl representative for the respective classes by each department to express their views on the teaching- learning process. Board of Studies meeting of each department include final year students to get their opinion on refining the syllabus. Students represent their feedback on the academic process in the Academic Council meeting. Internal Complaint Committee (ICC) consists of external experts, faculties and students to take care of internal complaints of students especially for girl students. Grievance Redressal Committee a dedicated online portal has been setup for students and staffs to log grievances, track and follow them up on the same. An Anti-Ragging committee is framed to ensure ragging free environment which is administered by Principal, representatives from faculty, representatives from parents association and student's representatives. The boys and girls hostel students also represents Hostel Council Meeting for the welfare of hostel students. The Hostel council consist of secretary, joint secretary, library secretary, PDC coordinators, Mess and block representatives who are elected by principal, dean and warden.

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

5.3.3 - Number of sports and cultural events / competitions organised by the institution

25

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

PSG Tech Alumni Association carries out various tasks that aim towards bringing the alumni to close interaction with the college. An engaged alumni network allows the college to benefit from the skills and experience of our graduates, by offering their support to our students, to the institution, and to each other.

Every year the PSG Tech Alumni Association at Coimbatore organizes events like Alumni Day, Young Alumni Meet, Technical Meetings, Entrepreneurship development programs, and product exhibitions. The Association has been conducting a state-level PSG Tech Talent Test for the 9th and 10th standard school students for the past 35 years. It conducts state-level PSG Tech Inter-Collegiate Tamil elocution for college students for the past 18 years.

The association provides financial support to needy and deserving students through scholarships annually worth Rs.20,00,000. Its operating Alumni - instituted Excellence Awards to be given for final year students of academic excellence. Every year Association conducts a Silver Jubilee reunion, Golden Jubilee Reunion, platinum jubilee reunion, and such occasions at the Campus.

Distinguished Alumni Awards are given to PSG Tech Alumni for Commendable Achievements in their field. Student Best Project awards were also provided to all UG and PG students worth of Rs.2,00,000. PSG Tech Alumni Association distributed Technovator Students Project awards for the students every year worth about Rs 3,00,000/-. On the occasion of Teachers day on 5th September, greeting cards were sent to all the teachers of PSG Tech and also to the Principals and the faculty members of other institutions, who are alumni of PSG Tech.

Young Alumni Awards were presented to young entrepreneurs who, after graduating from the college, had gone on to start business and brought about innovations in their respective fields and also

notable achievements in their chosen field and got government service as IAS/IPS.

In more information:<https://alumni.psgtech.ac.in/>

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

5.4.2 - Alumni's financial contribution during the year B. 10 Lakhs - 15 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 an effective leadership in tune with the vision and mission of the Institution

INSTITUTIONAL VISION AND LEADERSHIP:

- PSG college of Technology aspires to be a leader in imparting high quality education relevant to the societal needs by providing (a) facilities of world class standards (b) opportunities to create appropriate technologies (c)entrepreneurial skills.
- In this process, the norms of the government, regulatory bodies and the value system of the management pave the strong foundation for building the resources and their enhancement.
- To achieve such a noble goal decentralization is essential and teachers are involved in administration, decision making and grooming students. Senior faculty members participate in higher levels like governing council, academic council, grievance cell, academic audit and planning.
- Teachers with medium experience (8-15 years) look after students clubs and technical associations, and other supporting systems (alumni, scholarship, extra-curricular activities).
- Teachers with 3-8 years of experience takes care of students as tutors and senior tutors. Thus, all the teachers are involved

in administration or supporting administration in addition to academic activities.

- Details of a few committees are provided that depict the functioning of academic council, general administration of the college and the administration of departments.

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

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

As a decentralization measure of general administrative responsibilities, new portfolios are created at different time intervals and Deans are appointed for the same. Heads of Departments are responsible for the academic and administrative matters of the departments with one or more programmes. Programme Coordinators are empowered to strengthen each programme of study and support the HoDs in providing outcome based education. Overall quality is managed through ISO system with Internal Quality Assurance Cell (IQAC) and Internal Quality Circle (IQC).

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented During Covid 19.

As this was an unexpected situation and graduation of students was of prime importance during the onset of first wave (March 2020- September 2020) it was decided to conduct online classes for pending semesters followed by online examinations. For final year students also a similar practice was attempted.

The outcome expected is a reliable examination system without any serious difficulty for students that minimizes the chances of malpractice.

This was achieved by assigning email id by the college to all students, implementation of a question bank with more number of questions enabling random generation of questions and proctoring live. Questions were scrutinized by a team for every subject.

Sufficient training was given to all students and their genuine grievances were addressed. Subsequently, students found it value adding as interviews and other competitive examinations are held online.

This is an example of implementing a strategy and it is different from just implementing online mode of TLP. The success of this strategy is measured by the student's feedback and their performance in placement. Both are encouraging. We used the expertise of teachers in creating a large question bank and this can be used for several situations even after off line mode is brought into practice after some time.

This strategy was discussed online with all HODs and approved by the Chairman, Governing council.

PLACEMENT & TRAINING

The Placement and Training office primarily focuses on enabling job opportunities for every student of the college who aspires to get employment. With autonomous status, the institution ensures students to undergo a rigorous and exuberant teaching & learning process, amassing knowledge about both foundational concepts and latest advancements in their respective fields. To achieve this goal, measuring the common skills sought after by the employers must be continuously measured and improved in every batch of students. VISION Training Programme is an initiative in that direction.

The VISION programme is a psychometric-based career orientation programme designed to help students to understand and reflect on some of their inherent abilities for improvement. The Vision training program is conducted for the students enrolled in the first year B.E/B.TECH programmes. This programme provided necessary orientation for the fresher as well as a psychometric-test based counselling to ensure that they make the best use of their time in the institution. This programme measures the competencies of the students under the following skills.

1. - The knowledge and skills that students need in order to use mathematics in a wide range of situations
2. - The ability to read and write in at least one method of writing, an understanding reflected by mainstream dictionaries
3. Visual Reasoning - The logical reasoning topics using graphical representation of a problem and solving the problem based on the representation
4. Algorithmic thinking - A derivative of computer science and coding. It attempts to automate the problem-solving process by creating a series of systematic logical steps that process a defined set of inputs and produce a defined set of outputs
5. Attention to detail - The ability to identify and solve problems, particularly recognizing small issues that are not immediately obvious but have a significant impact on the solutions
6. - The ability to appreciate aesthetics and usability while presenting information or representing a flow

For continuous measurement and improvement, these skills are tested in the first, second and prefinal year of the programmes. The evaluation is done through the Placement & Training Office of the institution collaborating with a vendor offering professional counselling and psychometric evaluation services, and the results are reported as average percentages. These results enable the department and institutional stakeholders to evaluate the areas for improvement and the methods for improvement. Using this information the courses, course content, content delivery and evaluation methods may be fine-tuned. The VISION programme has been started with the 2019 admitted batch who will be graduating in 2023. The overall college level pattern of scores are shared and discussed with the heads of the departments by the Principal of the institution.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

Administrative Structure The Managing Trustee of PSG Son`s and Charities Trust is the chairman of the Governing Council of PSG College of Technology and Principal is the secretary. Principal is entrusted with the responsibility of smooth and effective functioning of institution. As a decentralization measure of general administrative responsibilities, new portfolios are created at different time intervals and Deans are appointed for the same. Heads of Departments are responsible for the academic and administrative matters of the departs with one or more programmes. Programme Coordinators are empowered to strengthen each programme of study and support the HoDs in providing outcome based education. Overall quality is managed through ISO system with Internal Quality Assurance Cell (IQAC) and Internal Quality Circle (IQC).

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.psgtech.edu/NAAC/criteria_6/criteria_6.2.2.php
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Faculty members with post graduate qualification are encouraged to pursue Ph.D either through full time in reputed institutes like

IITs, IISc and NITs or part time mode within the college.

Faculty members are also encouraged to write competitive examinations like GATE / NET to improve their technical knowledge and qualified faculty members are honored for their achievements.

Faculty members are encouraged to organize international conferences/workshops/seminars in collaboration with reputed universities and institutes in India or abroad. Support is also extended to faculty members to publish their conference proceedings in reputed publishing houses like IEEE, Springer etc., so that the papers get indexed in Scopus/Web of Science.

Faculty members are encouraged to attend national and international conferences / workshops / seminars either within the country or abroad to upgrade their knowledge and to establish contacts with renowned academicians.

Faculty are motivated to attend online courses conducted by reputed agencies like SWAYAM based NPTEL, GIAN, Coursera, Edx in order to upgrade their subject knowledge and also the tools and methods for developing online content for their courses.

Faculty are motivated to contribute for improvement in teaching, training and learning facilities by establishing new laboratories and strengthening library by online journals and e-resources.

Faculty members are empowered to create new courses and opportunities are provided to introduce them twice in a year through Board of Studies.

Faculty members are allowed to network with similar group through Professional bodies. Active Memberships in professional bodies is given due recognition.

Faculty members are permitted to pursue research in their area of interest. The institute provides funds as seed money to the faculty for their research activities. Also, every faculty member is encouraged to undertake consultancy work in their area of expertise.

Faculty contribution with regard to paper publication, book publication, project received, research accomplishment, obtaining of patents etc are duly recognized and honored.

Non-teaching staff are encouraged to acquire additional skills and qualifications. Special training programs are organized by the

college for the non-teaching staff which will help them to acquire technical as well as administrative skills necessary for the smooth running of the college.

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

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

59

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 programmes organized by the Institution for its teaching and non-teaching staff during the year

100

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

361

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal & External financial audit:

State government grant: Audit is conducted annually by the office of the State government Local Fund Audit and the consolidated report is submitted to the Directorate of Technical Education (DoTE), Chennai, for further action. In case of discrepancies pointed out by the audit team, remarks from the college are sought and if satisfactory, the issue is closed. If not, a suitable corrective action recommended by the DoTE is carried out by the college for closure of the issue.

Central government grant: Audit is conducted by the Chartered Accountant appointed by the college and relevant Utilisation Certificate signed by the Chartered Accountant and the Head of the Institution is sent to the sanctioning authority. Subsequently, audit is also carried out by the Accountant General's Office for final approval.

Management Grant: Concurrent Audit is conducted by the audit team of the accounts department of the PSG Trust. Annual audit is conducted by the Chartered Accountant appointed by the Management and the report is submitted to the Managing Trustee for further action.

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

nil

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

Mobilisation of funds is very important as this is an opportunity for all teachers to showcase their expertise to various agencies of Gov of India and industries on innovation and relevant problem solving.

It is monitored by the head of the institution and the targets are set and accepted by the faculty members and the HOD. The sources of funds are (a) Grant in Aid from the government of Tamil Nadu (b) Tuition fee (c) Autonomous grant from UGC (d) Consultancy activities and revenue earned (e) Continuing education Programmes and charges collected (f) Sponsored projects to augment research facilities and research activities towards the award of PhDs.

There is clear budgeting process submitted to the Government of Tamil Nadu and this is available for salaries of the aided staff and capital expenditure for the aided programmes. The funds are allocated from the fee collected towards salaries and other expenses of the self-financing programmes.

The autonomous grant sanctioned by UGC is spent as per UGC guidelines stipulated in the order (Library facilities, academic council related expenses and other autonomous functioning related expenses) Finance committee approves the funds allotted and college spend the same in those heads.

There is separate section dealing with Continuing education programmes and industrial consultancy. The revenue earned is put back into the system and faculty members are remunerated as per norms.

All PhD holders get the approval to guide PhD scholars and they are persuaded to apply for sponsored research. Various agencies like DST, AICTE, UGC launch various schemes and faculty members apply for

grants through such schemes. These are the modes of securing resources and grants.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Practice 1: Exploring of E-resources through Infed Shibboleth Access facility to students and faculty

Dr.GRD Memorial Library of our institution has introduced the Shibboleth access for accessing the library resources using the tool called Infed platform by Infflibnet. This tool helps the faculty, students and scholars to access the subscribed electronic resources even out of the campus. This tool also provides an option to understand the usage of electronic resources of our institution. The objectives of this practice is to provide remote access facility to all the students, faculty and scholars, promote the e-resources procured by the library, understand the effective utilization of e-resources subscribed by the library and facilitate the students, scholars and faculty to access the resources anywhere anytime. Our institution students are provided with Infed Shibboleth access by which they are able to access the e-resource available with the library in the campus as well as in the remote location. As an administrator, it is able to pull out the reports on publisher wise usage, publication wise usage, and content wise usage. Students are able to access the e-resources remotely. It helps widely during the pandemic period. Moreover, with a single click, all are able to get the relevant results in various content types. All the students are able to browse and familiar with the subscribed electronic resources. E-resources usage can be tracked and promoted to the targeted user group. Less utilised resources can be identified and removed for the future purchase.

Practice 2: Vision Benchmark Assessment

The VISION programme is a psychometric-based career orientation programme designed to help students to understand and reflect on some of their inherent abilities for improvement.

This programme provides necessary orientation for the freshers as well as a psychometric-test based counselling to ensure that they make the best use of their time in the institution. Based on the psychometric analysis of a student, a one-to-one counselling is initiated to assist in academic and career planning sessions that follow in the subsequent semesters.

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

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Example 1: Reviews of teaching-learning process, and learning outcomes through PASCO, PADCO and BoS

Programme Assessment committee (PASCO), Programme Advisory Committee (PADCO) and Board of Studies (BoS) are created at each department to monitor teaching-learning process, its requirements in terms of curriculum development, introduction of new courses, creation of new facilities, training programmes needed, etc. PASCO meeting is conducted to measure and compare attainment levels of learning outcomes with set targets every semester. Necessary actions to improve those attainment levels are discussed in PADCO meeting and proposed to BoS.

Initially, each department conducts an internal Department Quality Circle meeting (DQC) within the faculty members to review teaching-learning process in terms of Course Outcome (CO) attainment for all courses including theory, laboratory, project work, and innovative practices laboratory. Programme coordinators further map the CO attainment to a pre-defined Programme Outcomes (POs) and Programme Specific Outcomes (POs) of the programme. Overall findings would be presented by the Programme Coordinators, along with analysis and suggestion for improvement, in an upcoming PASCO meeting headed by the HoD. This facilitates to improve the quality of course and to

revisit learning outcome targets. Also, a decision would be taken on faculty training in a particular domain, and syllabus content revision to bridge the gap, if any. Inferences from the PASCO meeting would be carried forward to the PADCO meeting which encompasses industrial experts and Ph.D. holders. On consultation with the experts, the HoD finalizes course of actions considering the expectation from job offering companies and institutions like NITs, IITs and foreign educational institutions. Findings from PASCO and PADCO meetings will be presented in BoS meeting, conducted every semester. Outcomes of BoS in the form of new courses introduction, syllabus revision, value-added courses, new assessment methods, etc. will be submitted to the Principal for further action. The suggestions thus submitted would be discussed, approved and passed on in the Governing council.

Example 2: Academic Audit

Academic audit has been planned to be conducted to monitor and review the performance of all the programmes in the institution. Academic Audit team evaluates the processes involved in the design and development activities of curriculum, teaching-learning process, student learning assessment process, the quality of resources to meet the learning outcomes, curricular and extra-curricular activities. In addition, the academic audit team also assesses the faculty competencies, quality and quantity of research and consultancy outcomes. A Self Assessment Report, (a specific format created by the institution) which is envisioned to elaborate upon curriculum, teaching learning, research, infrastructure and learning resources, student support and progression and student performance is prepared for each programme to quantify the efforts of the faculty and the students and is submitted electronically. All the programmes of the institution undergo academic audit process once in two years. An audit team comprising of two external academicians experienced in accreditation work and professionalism is nominated by the Principal Incharge for each programme /department. The audit team conducts offline / online evaluations through check of documents and interaction with stakeholders. An audit report indicating commendation / recommendation for enhancing the system is shared.

Example 3: Institutional reviews conducted by external/internal experts through ISO

External Surveillance Audit conducted by TUV-SUD yearly once to cover the process of admission, academics (Teaching Learning

Activities), placement, examination system. Major non-conformities are reviewed during successive audit to ensure adherence to the process. All the departments are internally audited at least once in every semester. During the audit, any non-conformity observed is recorded in Corrective Action Request (CAR). Other observations are recorded through the Audit observation sheet. A closing meeting is conducted by Quality Management System (QMS) team to discuss the status of the quality system at the end of each internal audit among the auditors and auditees. Auditees propose corrective action with target date in case of CARs and observations if any. Through a follow up audit, auditors verify the implementation and effectiveness of the corrective action and record in CAR and Audit observation sheet. CARs which require management's attention regarding resource requirements and the status based on audit are discussed at the QMS review meeting for review.

After 2nd Continuous Assessment Test (CAT), an audit of CAT answer papers is carried out. The observations are recorded as per CAT answer paper audit report by Auditors and are collected during closing meeting by QMS Office. Observations collected are forwarded to COE Office for taking further actions based on deviations, if any, through office note authorized by Principal. QMS review meeting is conducted at least once in every semester. The Department Status Report (DSR) along with QMS computation is collected by QMS Coordinator as per the format before the meeting. Status of actions from previous reviews, changes in external and internal issues relevant to QMS, information on the performance and effectiveness of QMS, adequacy of resources, effectiveness of actions taken are discussed in every meeting to address risks and opportunities for improvement.

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

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO

A. Any 4 or all of the above

Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.psgtech.edu/tech%20bulletin.php
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

PSG College of Technology promotes equal opportunities to all without any gender discrimination and has taken several measures for sensitization of gender equality for UG, PG and research students. Measures have been taken for equal opportunities during the implementation of various programmes. Five NSS units, Four NCC wings and Physical Education activities play a vital role with additional support of Students Union in enhancing the personality traits of our students. Security measures have been taken up for the safe environment for girl students to be free from ragging and sexual harassment. Grievance Redressal Committee a dedicated online portal has been setup for students and staffs to log grievances, track and follow them up on the same. An Anti-Ragging committee is framed to ensure ragging free environment which is administered by Principal, representatives from faculty, representatives from parents association and students representatives. Internal Complaint Committee (ICC) consists of external experts, faculties and students to take care of internal complaints of students especially for girl students. Separate common rooms and wash rooms are provided for both boys and girls. Vending machines are installed in the women's wash rooms and its user guidance is provided by means of posters. To ensure safety and security of our students the security system is available with supervision and CCTV surveillance system in whole campus including one at main entrance. The hostel timings followed by students are strictly monitored by tutors and wardens for the safety of the girl students. Ladies hostel is especially monitored by both lady securities inside the hostel and male securities

outside the hostel during both day and night time. The boys and girls hostel students also represents Hostel Council Meeting separately for the welfare of hostel students. There are various women secretaries in various clubs, sports, associations, hostel council and student council. Counselling sessions were organized by the institution with the help of the medical institute of the same management in order to create awareness on of gender sensitivity. The team of counsellors with Office of Placement and Training provided counselling services to students from the early days in college to get themselves clear about their career goals. As many students need guidance and care during their adolescence, counsellors continuously provided guidance on one to one basis for the entire class. Throughout the academic year our Institution,

- Guides incoming students to settle for campus life.
- Helps students in resolving issues related to learning difficulties.
- Assists students in exploring career pathways that suit them.
- Drives students towards setting and achieving career and academic goals.

The latest ICT infrastructure of the college and the online capabilities engaged in the office of Placement and Training enable students to register, submit all the documents, and undergo training/counselling/interviews and provide Full Time Employment (FTE) and Internships opportunities. Several workshops were organised by various clubs and associations to develop social responsibilities among the students. The programme "Vigilance Awareness on Corruption" was conducted by Women Development cell in association with Martial Arts club to create awareness among students on corruption and to extirpate it. Women Entrepreneurship was promoted through series of Tech Talks by Mrs. Sudha P, Founding President, WOBEDA and Ms. Jhansi Rani Vedachala, Managing Director, Jiore Skincare, in association with Students Union, PSG College of Technology. "Tree plantation" event and "Jan Andolan Campaign on Covid-19" by NSS, and "Evening with Entrepreneur" webinar by E-club inculcated the socio-economic awareness and entrepreneurship awareness among students. In addition, many girl students took part in donating blood under the guidance of the Youth red cross society.

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

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management

Solid waste is collected from different locations and disposed through vendors, Food waste and vegetable wastes in the hostel are used in bio-gas plant and gas generated is used for preheating purpose, Kitchen oil and coconut shell wastes are used in our crematorium.

• Liquid waste management

Waste water in College and Hostel is treated using 1.5 MLD and 0.25 MLD plants. The treated water is used for gardening and discharged back into the environment.

• Biomedical waste management

Bio-waste is not generated in the campus

• E-waste management

All e-wastes are collected from the user departments and disposed through authorised vendor. MoU is being signed with M/s Green Era Recyclers.

- Hazardous chemicals and radioactive waste management

Not generated in the campus

- Waste recycling system

It is under process

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

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
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: B. Any 3 of the above

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

File Description	Documents
Geotagged 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 undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of

B. Any 3 of the above

reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

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

PSG College of Technology provides an inclusive environment for the students through the affiliated clubs and associations which plays a vital role in enhancing tolerance and harmony among the students. To expose the students, various activities such as personality development, leadership, managerial, socio-economic and cultural events are conducted entitled "Intrams" by the institution. Due to COVID pandemic, most of the activities are conducted through online this year. Auditions "Talent Hunt 2020" was conducted in Discord and Google meet platform by Tek Music to recruit new members into the club. Around 250 students took part in the audition and showcased their singing talents. A 12 hour digital live show "Completion of Phase one - RH for Coimbatore" was streamed digitally for completing phase one of RH of Coimbatore, an event includes recording the audios of 50,000 community people in and around Coimbatore, in getting their ideas and the changes we need for the upliftment of society. Another Digital live show was streamed for "Independence day" for 12 hours with back to back shows based on the significance of our Independence. Recruitment 2021 was conducted in zoom for 8 hours and around 300 students participated in the virtual recruitment. "World Radio Day Digital Live show" was streamed for 4 hours on account of World Radio Day. The inauguration of the Tamil Mandram club's "Kanitamizh Peravai" was performed by Mr. Marai T. Thayumanavan and around 80 students took part in the event. "Netaji Piranthanal Vizha" was addressed by Dr. K. Sangavai, to realize the greatness of Netaji. A two day event called "Thulir" was conducted to encourage first year's students to join the club. A vocabulary event "Hindimania" was conducted by Paathshala Club in Quizizz and Google meet platform, to enhance the knowledge of students in basics of Hindi and 34 students took part in the event.

An awareness programme "Surviving the pandemic" was conducted by NSS to provide awareness on COVID-19 caused by SARS CoV-2 and nearly 50 students took part in the event. "Tree plantation" event was organized from 6th November to 9th November 2020, which inspired many students and as a result, 50 saplings were planted in their neighborhood. "Click and Decode" event has encouraged students to come up with new solutions to the prevailing socio-economic problems. The three different talent hunts -- singing, drawing and poetry -- were conducted on "Patriotism". The event "Ek Bharat Shreshtha Bharat" promoted learning culture and traditions. A two-day intercollege event "Astra 2021" was organized by NSS to connect the students from campuses all over Tamilnadu and provide a platform to showcase their talents. The events "Teaser" and "Ikonic" conducted by Youth Red Cross Society promoted blood donation and created awareness on saving earth among the students. More than 20 students took part in the event. Blood donors are encouraged and arranged regularly to meet the blood requirements in the hospitals in Coimbatore and other districts in the state. The programme "Vigilance Awareness on Corruption" was conducted by Women Development cell in association with Martial Arts club to create awareness among students on corruption and to extirpate it and around 40 students participated in the event. Women Entrepreneurship was promoted through Tech Talks by Mrs. Sudha P, Founding President, WOBEDA and Ms. Jhansi Rani Vedachala, Managing Director, Jiore Skincare, in association with Students Union, PSG College of Technology. PSG College of Technology's Youth Outreach Club enrich the 12th standard students knowledge of Manavar Ilam to set achievements every year. CHALKIE 2k21 is one of the grand events of Youth Outreach Club which brings out some passionate students who has a teaching skill within them. TEDxPSGTech an independently organized TED event, was organized by the Global Leaders' Forum which aims to empower and give voice to ideas from local community on a global stage.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

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

The Constitution of India has certain basic constitutional values that constitute its spirit and are expressed in various articles and

clauses. It contains modern, universal, human and democratic values. It also helps as a set of principles, rules and procedures to reach a consensus. Values are the key to determine the rightness and wrongness in different situations. The values of integrity, transparency, accountability, fairness, public welfare and fairness are the guiding principles of Indian Constitution. These values are evident in the preamble, which describes Indian state as sovereign, socialist, democratic and republic; and the goals of the Indian state are freedom, equality, justice and brotherhood. It can be said with certainty that the values nurtured by the Constitution of India are based on solid moral foundation. The values enshrined in the Constitution of India inspires the Indian society to be more ethical, tolerant and helps to become responsible citizens of the nation.

PSG College of Technology offers the mandatory course 'Indian Constitution' as prescribed by AICTE for all the undergraduate engineering streams during their IV semester. The course helps to create awareness and sensitizes students on the significance of upholding the constitutional ideas, values and rights. The students are motivated to deliberate by organizing group discussions and debates on topics that help to inculcate constitutional values like, human rights, democracy, and fundamental duties. In 2012 regulation itself, a course on 'Sociology, Ethics and Human Values' was offered by the Department of Humanities to BE/BTech students.

The college observes and celebrates Republic Day, Independence Day and Constitution Day to remember the leaders of this nation and imbibe their values that were exhibited during freedom struggle, to uphold democracy and sovereignty and to protect the integrity of the nation at all times.

The Department of Humanities organizes and conducts a series of conferences entitled "Integrating Humanistic Values and Social Concerns with Technical Education" once in four years since 2006. The conference has served as a platform to instill the essence of human values among students, scholars and faculty members by eminent resource persons.

Provision for scholarships / rewards for deserving and well performing students and faculty members. Well planned and executed professional training by experts from the beginning leading to laudable career guidance in placement, entrepreneurship and higher education. Teachers are awarded international fellowship for advanced studies / research. In summary, PSG Tech offers a comprehensive and wholesome educational program to its students to

become professionally competent to contribute to the world at large.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

C. Any 2 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 programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

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

PSG Tech values discipline as a core character of professional development in its students which will be necessary for their professional development. There are several associations' aid in character building among the students. These associations offer opportunities for learning life skills outside the academic setting by encouraging students to enrol as members in professional bodies, national / international organizations, local chapters, and skill development clubs. PSG College of Technology celebrates and organizes various national and international commemorative days, events and festivals. Mr. Cottalango Leon, a proud Alumnus of PSG

College of Technology - 1992 Batch, Software Architect, Sony Pictures Image works, USA and an Oscar Awardee was invited as the chief guest to inaugurate the Students Union 2020-21 through Cisco WebEx. An Induction Programme for first years was conducted, in which Dr. Lakshmikanthan Ramakrishna, Vice President of Solidarity & Action against the HIV infection in India (SAATHII) Chennai, a national non-profit organization, was the chief guest. He pointed out the importance of gender equality. A series of eight tech talk was conducted relating higher studies abroad, opportunities in TNPSC and UPSC examinations, Entrepreneurship, Women Development, Women Entrepreneurship, and Importance of Healthy Food to lead Healthy Life. The 72nd Republic Day was celebrated in our college premise. The chief guest of the day, Dr K Prakasan, Principal in-charge, PSG CT unfurled the Tri-color Flag. A goal setting and motivational session was organized for office bearers, secretary of clubs and associations affiliated to Students Union. Ms.Anuradha Bhatkar, the resource person of the event discussed on "Discover yourself through strengths and weaknesses". National workshop on design, construction and flying of radio-controlled aircrafts, National level aeromodelling competition and National workshop on Critics of Aviation Technologies and Operations (CATO-2021) was conducted by Aeromodelling club. KRIYA 2021, the most expected Techno management festival was successfully conducted online. Around 900 students from more than 50 technical institutions all over the country participated in 45 events and 7 technical workshops. Tech Dayis conducted every year to felicitate the outstanding meritorious students with Best Outstanding Awards for their excellency. Social Day is conducted for the final year's graduates for their social get together followed by some entertainment activities. Guest Lecture on "Wildlife SOS" was conducted with a motto to spread awareness about rescuing, rehabilitating wildlife and to save India's natural heritage. All India Council for Technical Education (AICTE) and Fine Arts Club of PSG College of technology conducted "Netaji Subash Chandra Bose Birthday event" to celebrate the 123rd birthday of the most inspired freedom fighter Subhash Chandra Bose. Guest Lecture on "Evening with Entrepreneur" was organised by E club to allow the students to interact and meet the pioneering entrepreneurs. "Young kalam Innovator" and "Technovator Ideation Challenge" was an idea presentation event which was conducted to kindle the creativity among students. TEDxPSGTech an independently organised TED event, is organised by the Global Leaders' Forum is to empower and give voice to ideas from local community on a global stage.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice: Energy, Environment, and Green Audit.

Objectives of the Practice

- Identifying the scope for conserving energy and water in the campus and Broadly communicate the benefits of, and opportunities for, energy efficiency.
- Use of renewable energy to the maximum possible and limiting the carbon foot print
- Conservation of Energy and water by implementing energy efficient system and good practices.
- Effectively maintaining the solid waste, e waste, hazardous chemicals, and fire safety systems
- CO 2 audit at different locations and its solutions

The Context

- Lackluster awareness to leverage the latest technology in energy conservation and usage of best practices
- Space and security take priority over in-house waste management
- Effective use of recycled water in flushing system due to nature of available plumbing system

The Practice

- Roof-top solar PV system and Wind farms with wheeling agreements enables the usage of green energy to the tune of 85.5 % of total demand
- Variable frequency driven water pumps with pressure sensor integration made the aqua system becomes energy efficient and trouble free operation

- Efficient lighting system implemented through LEDs and servo stabilizers. BLDC fans, Centralised UPS, and Fan regulator system contributes significantly for energy conservation
- Wastewater treatment plant is built to meet the water quality requirements.
- E-waste is maintained by authorised outsource company
- Quality drinking water dispensing system with well-maintained RO Plant and filtering station
- Fire safety pumps installed with integrated fire alarm building systems
- Rain water harvesting at various locations of campus is being implemented and for farmer's community welfare rainwater harvesting scheme is supported along with the state government in the district.
- The treated water from STP is being stored in nearby water pond to increase the water table of local place

Evidence of Success

- Energy, Environment, and Green Audit was done with certified Energy Auditor during 01.07.2021 to 03.07.2021. Based on the auditor report the following points are provided for the evidence of success
- Electrical energy consumption in college and hostel put together is around 52,32,032 kWh. Out of this much consumption 44,73, 764 kWh are being from green energy.
- Through Solar water heater the equivalent electrical energy saved is 8,04,000 kWh
- Bio gas plant supporting for preheating cooking applications in hostel mess, through which 8,490 kg of LPG gas is saved
- CO₂ emitted in the campus is around 4556 Tons / Annum, CO₂ neutralised through green energy is around 4385.8 Tonnes / Annum. Per capita CO₂ is found 24.3 kg / Annum.
- Our Institution is nearly 96.3 % green Energy Institution
- Nearly 200 Water dispenser units with 2 RO plants of capacity namely 6,000 Litre/hour in academic building and 25,000 Litre/hour hostel building. TDS is well maintained between 70 -100.
- Around 1350 trees are being numbered and maintained with treated water
- 0.25 MLD and 1.5 MLD Sewage Treatment Plants are operating well and treated water is tested at regular intervals
- 7 MLD rain water harvesting bore-well for the depth of 110 m is provided at 7 locations to cover 14 acres

Problems Encountered and Resources Required

- Evacuation of unutilised roof top solar PV power during holidays is not possible due to regulations of TANGEDCO, a proper programmable load shedding unit may help in improving the utilisation
- Utilisation of bio gas plant is to be improved and management is working on it.
- Solid waste management system is to be improved by proper segregation at the collection point
- Water conservation steps to be implemented through awareness programme among the users

Notes (Optional)

- Navigation among different blocks is made easy through connection corridors at different levels of the buildings and usage of lift is reduced
- Smart app for registering complaints and maintenance is developed.
- Electric vehicles are using in material movement and local travel

File Description	Documents
Best practices in the Institutional website	https://www.psgtech.edu/NAAC/criteria_7/criteria_7.2.1.php
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The current priority or the focus area of the institute is to encourage budding student entrepreneurs who can bring out innovative solutions in terms of products or services resulting in startups or patents through Institution Innovation Council (IIC), which was established in the college for the same. Towards this goal, student engagement in Startups and the academic benefits they derive in such activities are brought in their programme regulations. In order to prepare the interested students to transform themselves as budding entrepreneurs, integration of innovation and entrepreneurship activities with academic processes will be exercised in a slow and

steady pace with due diligence. Students are free to dedicate any time outside their regular academic hours and duties towards their companies. Besides, student entrepreneurs may earn academic credits for their efforts in working on innovative prototypes/business models with an intent of setting up a start-up with a possible incubation under IIC. They will be allowed to earn credits by opting for startup related activities in place of the courses under the category of Employability Enhancement Courses (EEC) in UG and PG curriculum. Interdisciplinary/ multi-disciplinary areas will be given special preference. Students are advised to form teams from various disciplines while working in such projects.

The Innovation & Entrepreneurship (I&E) expert committee will review the startup/ innovation proposals submitted by students and give approval for credit conversion. Such proposals should clearly define the objectives and the expected tangible outcomes in a clear and objective manner. At the end of the designated semester, the student teams are expected to make a presentation on the progress to the I & E expert committee which will then recommend grades based on the level of attainment of the stated objectives. Apart from undergraduate and post graduate students, PhD scholars are allowed to base their startup on their thesis or dissertation with due approval from their respective supervisors.

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curricula of PSG College of Technology are developed / updated by always taking in to account the rapid changes that are happening in the industry and society. The advent of Industry 4.0 and the requirement of industries for human resources in the areas of Artificial Intelligence, Machine Learning, Big Data Analytics, Data Science, Cyber Physical Systems etc. resulted in the introduction of new programmes in some of these areas and in the introduction of new courses in others in the existing programmes. The curricula are developed or updated through discussions with stake holders from industries by bringing them as members of our academic statutory bodies like Programme Advisory Committee and Boards of Studies in the department level and Academic Council in the institution level. Information about the societal and industrial needs are also obtained from reputed Alumni who are in executive positions in industries and also from reputed academicians from institutes of higher learning like IITs, IISc and NITs. The curricula are developed / updated with the inputs from above and through the academic experience gained by faculty members of the college based on their teaching, research and consultancy practices. As an autonomous college, the curricula are designed and implemented within the framework of guidelines given by regulatory bodies like Anna University, UGC and AICTE.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	https://www.psgtech.edu/index.php

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

43

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

257

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	No File Uploaded
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

118

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

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

65

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

Students are sensitized about issues relevant to Gender, Human Values and Professional Ethics through the Induction Programme organized for all the students of UG programmes in their first semester itself. These issues were further emphasized through activity point programmes organized from 2 to 6 semesters as per AICTE mandate. A mandatory course on Environmental Science is being offered for all the BE/BTech students in the 3rd semester as per the current 2019 regulations. This course gives an overview of the environment in which we live, its importance for leading a healthy life now and in the future, conventional and renewable energy resources, the need to move towards renewable energy resources in the years ahead, environmental pollution, waste management to minimize its effect on environment and societal issues that affect the environment. A course on the Sustainable Development Goals (SDG) mandated by United Nations Organization is offered to all the ME/MTech programmes as a mandatory course. Several faculty members from each department were trained in understanding the importance of SDGs through faculty development programmes organized outside the college so that they can handle the course on SDGs.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

14	
File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above**929**

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects**1424**

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

B. Any 3 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.psgtech.edu/NAAC/criteria_1/criteria_1.4.2.php
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

C. Feedback collected and analysed

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.psgtech.edu/NAAC/criteria_1/criteria_1.4.2.php
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1868

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

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

1530

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

- PSG College of Technology identifies learners as slow learners and advanced learners based on a wide range of ongoing assessment components, such as Home Assignments, Class Assignments, Seminars, and Group Discussions.
- Assignment presentations, quizzes, class tests, projects, internships, viva-voce examinations, and attendance are furthermore done for effective evaluation of students' learning levels.
- Moreover teacher-student interactions, class committee meetings, and tutor ward meetings assist in the identification of different levels of learners.
- Faculty members and tutors examine the students' academic progress on a regular basis and direct them in order to enhance their performance which assures their academic progression.
- Class committee meetings being a good platform for the students and the faculty member address the grievances and find the possible alternatives for the potential growth.
- Students are encouraged to interact with course instructors during the scheduled free time to discuss academic challenges.
- Extended Learning - students learn beyond the allotted time through communication media.

The following are special measures designed to assist relatively slow learners.

- Remedial classes and extra classes are offered to help the slow learners, absentees, and the students who participate in sports and other activities in order to improve their academic performance.
- Remedial classes support the slow learners to improve their subject knowledge and reaching up with their peers.
- Encouraging slow learners to take courses on building communication skills in order to achieve language

comprehension, if required.

- Slow learners who are unable to understand the concepts in regular classrooms are assisted by having their doubts clarified, repeating important concepts, and providing extra assignments to reinforce their learning.

The following are special measures designed to assist advanced learners.

- Internal assessment, end semester examinations, and classroom participation are used to identify the high-performing students.
- Students are encouraged to join professional bodies such as ACM, IEEE, ASME etc.
- Motivating the students to submit research papers to peer reviewed journals.
- Students are encouraged to participate in various hackathons and are given opportunities to work on various interdisciplinary projects to develop their innovation through the Institute Innovation Council (IIC).
- Students are motivated to take up competitive examinations such as GATE, GRE, TOEFL, IELTS, CAT, and other similar exams.
- MOOC Courses - Swayam, Coursera, and others like AWS, CISCO are recommended for the advanced learners.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://moodle.amcspstgtech.in/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/05/2021	8028	571

File Description	Documents
Upload 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 believes in using student-centric approaches to enhance student involvement as part of participatory learning and problem-solving methodologies to cultivate habits that promote lifelong learning behaviours among students. Teamwork, debates, seminars, quizzes, and case studies are indications of student-centric teaching methods that are reflected in project work, field trips, industrial visits, and guest lectures.

Experiential Learning Experimental learning makes learning an experience beyond class room in a more involved way. Mini Projects, Summer Internships, and Final Semester Projects are essential element of each programme

Summer Internship: Students will gain hands-on experience in a corporate environment. Students will be exposed to the most current technological advancements that are essential for successful placement in top-tier industries.

Laboratory experiential learning: Learning by doing is critical for developing a deep understanding of a subject. As a result, faculty members make every effort to expose the students to as many laboratories as possible. Since first-year, where as Physics, Chemistry, and English labs are exposed. Later in their second year, students are given in-depth exposure to their core lab experiments.

Participation in HACKATHON: Students are encouraged to participate in national and international programme contest to gain real-world experience and improve problem-solving skills.

Industrial Visits: Every Department in the college plan and organise industrial visits for students to expose them to the work culture of industry.

Guest Lecture: To support the teaching process and give an experiential learning, lectures are given by industry experts.

Participated Learning

Role play: Instructors will use role play as a supplement for teaching in courses such as software project management, and communication systems that will operate as a form of participative learning.

Team work: Students' events are organised by all departments to encourage the culture of teamwork. The activities and Camp of NSS, institutional social responsibility through Red Cross, Village Adoption, Tree plantation and Health awareness camp to help the students to learn the art of living in a team for Social and Community welfare.

Debates: Debates are used in various disciplines where learners are asked to present multiple viewpoints and thought processes, resulting in the learning process being justified in an argumental way that support students in clearing Group Discussions in placement.

Problem solving Methodology

Case studies: The case study method is used in the teaching learning process to help the students develop logical thinking skills and practical knowledge in order to improve their problem-solving abilities.

Analysis and Reasoning: Innovative and interdisciplinary projects are encouraged among the students. The students are made to identify the real world problems and find appropriate solutions for the same in a technical way. The obtained solutions are analysed and is recommended by the faculty for conversion into product samples.

Quizzes: Students' clubs enable students to innovate and participate in various competitive events - eg. Coding Club. All courses have quizzes administered by course instructors.

Research Activities: Under the supervision of senior faculty, research activities are performed in each department, where students of final year & pre-final year gain knowledge of new areas and are encouraged in publishing research articles in reputable journals.

PG Conference: The PG conference encourages students to explore recent research areas and promote knowledge interaction. This event also gives an amazing and accessible platform for our higher degree students to demonstrate their creativity and resilience. Presenting authors are encouraged to highlight the research challenges they encountered and the inventive approaches they used to overcome those challenges in their work.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

- ICT-enabled technologies and online resources are employed in the teaching-learning process to help students to improve their learning abilities.
- MOODLE, Google Classroom, and the Nucleus platform (In-house developed), among others, are used to manage the learning process and resources.
- It allows monitoring of students' learning processes through online quizzes, online assignment submission, and so on.
- Free digital tools for class activities were used in teaching learning process. Eg: GeoGebra is It gives a visual treat for many of the concepts in Mathematics.
- Instructors are exposed to the latest technology and tools through continual training in order to provide the best learning experience for their learners.
- Every instructor must upload their student's attendance, internal assessment marks, tutorial and assignment presentation scores to the web portal, along with feedback on the course and class they taught. (<http://academicbcs.psgtech.ac.in>).
- Students, on the other hand, can access all of their academic information using the ecampus portal (<https://ecampus.psgtech.ac.in/studzone2/>).
- Every course in every semester requires students to offer online feedback on the curriculum and teaching-learning environment.
- All Instructors and students have access to a wide choice of e-resources through the PSG Library's remote access services, which are open 24/7.
- General ICT Tools used by the faculties are: Desktop and laptops, Projectors, Digital cameras, Printers, Photocopiers, tablets, Pen tables, Pen drives Scanners, Microphones, Interactive white board, DVDs and CDs, Flash discs.
- Surprise quizzes encourage class preparation, attendance and, ensure the students to participate in class discussion

designed to reinforce learning.

- The Mentimeter tool is used to conduct surprise quizzes online. (Mentimeter is an online polling tool that can make a class more interactive).

Nucleus

<https://nucleus.amcspgtech.in/login>

Moodle

<https://moodle.amcspgtech.in/login/index.php>

E Resources

<http://events.psgtech.edu/library/>

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://nucleus.amcspgtech.in/login
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

187

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The Academic calendar was prepared for the two semesters of the academic year 2020-21 considering a duration of 16 weeks per semester for teaching, learning and assessments. The assessments include tests, assignments / tutorials / quiz / presentations. The Academic calendar was prepared well in advance at the end of

the even semester of the previous academic year 2019-20 and the same was made available to the faculty members, the students and on the official college website.

Faculty were instructed to prepare a detailed course plan for the subjects to be taught by them at the beginning of the semester containing weekly teaching contents, tutorials / assignments/ presentations/ quizzes planned to conduct. The course plan so prepared by the faculty members was reviewed by the Head of the Department and the same was made available to the students through the college website. For the courses taught by multiple faculty members a common course plan was prepared.

Periodic class committee meetings with the respective faculty members, selected students, mentors and HOD were conducted to review on the teaching and learning process. Faculty also have provisions to record deviations to the course plan with reasons in the existing course plan link.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

573

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

337

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

6497

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	No File Uploaded

2.5 - Evaluation Process and Reforms

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

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

56

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

- End Semester Examination Reforms / Innovations :
- AI based Proctoring Online platform for conduct of examination :

The End Semester Examination is conducted by online method using Artificial Intelligence software equipped with remote proctoring as against the traditional pen and paper examinations.

The examination software use face recognition module which checks the student's live captured photograph with the photograph which is available in COE database. This will ensure the student authentication before start writing the examinations and prevent impersonation.

Further the examination AI system scans the environment continuously to ensure there is no cheating aids or obstructions falsification. It also monitors continuously the eye contact of the candidate, presence of multiple persons in the room, any suspicious activity done by the candidate and reported back to the administrator. The data collected are stored in the cloud and can be collected and analysed at any moment in time.

- Question paper pattern :

The question paper pattern is transformed to Multiple Choice Question type from descriptive type. The question paper used in the examinations has only one section with all MCQs. This MCQ pattern allow for assessment of a wide range of learning objectives in the particular course. This will also facilitate automatic scoring by the software without glitches, which helps to measure the learning outcomes consistently.

- Question bank system

An expert committee at department level for all the courses has been formed to prepare a question bank with maximum number of questions for individual courses. As and when required the committee will meet and review the quality and quantity of the questions in the question bank. Thus the question bank is periodically updated with a large number of quality questions.

- Question paper generation for semester exams :

The question paper is generated by rule based method which will ensure that all the questions in the question paper are taken with the pre defined criteria such as syllabus coverage, blooms taxonomy level etc.

The rule based question paper generation method will make sure, sending of different question papers to individual students in a course, as the question papers are generated from the question bank. The questions and options are also jumbled for each question paper as stringent measures for curbing malpractice.

- Training the faculty in digital exam platform:
 - Designing MCQs in digital platform: An intensive training was organised to all the faculty members on preparing question bank and uploading it in the digital examination platform. The training comprised of the macro and micro level strategies used for designing effective MCQs to assess various height of learning outcomes.
 - Manual Proctoring: A training on manual proctoring along with the machine proctoring in the digital examination platform for all the faculty members was also conducted. Manual proctoring makes the online examination stringent and align the students perfectly in line with the examination process. Any infringement observed during the examination is noted by the manual proctor and reported immediately to the examination cell for further actions.
- Addressing student grievances during the examination:

In order to support the students during the online examinations, a good number of exclusive helpline numbers are allotted and informed to the students. The students communicate to the helpline numbers if any issues faced by them while writing the examination in online. This facility makes the student comfortable and confident in attending the online semester examinations without any hassle. Any issues received through the hotlines were immediately analysed and addressed to facilitate the students to continue the exam. Some grievances which could not be resolved during the examinations were collected through the examination cell email, acknowledged and addressed at later stage.

- Continuous Internal Assessment (CIA) integrating IT

An exclusive IT portal which can be accessed via both internet and intranet, is available for all the faculty with unique login id to enter the CIA marks for different assessment components for all the students.

A separate IT portal from our college is available to all the stake holders with individual login ids to access the information related to examinations such as CIA marks, Examination Time table , Examination Fees , Examination results and the seating arrangement pattern (for off line exams).

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://admin.exams.psgtech.ac.in/login

2.6 - Student Performance and Learning Outcomes

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

Program Education Objectives, Program Outcomes, and Course Outcomes are clearly specified and published on the Institute's website, and conveyed to instructors and students for all the programmes offered by the Institute. The institution uses the following mechanism to convey learning outcomes to teachers and students.

- During the obligatory Orientation programmes, all students are informed about the objectives and expected outcomes of their programme.
- Students are also educated and given a detailed curriculum, course outcomes, and assessment strategy for each course.
- The POs, PEOs, and COs can be accessed on the college website.
- The significance of learning outcomes will be highlighted to the instructors during the Department meeting.
- Workshops is also conducted at the college level to develop the Program Educational Objectives and Learning Outcomes.
- The course outcomes, in general, focus on the student's readiness for placements, higher education, research, entrepreneurship, and competitive examinations.

Links**Vision & Mission Statement**

<https://www.psgtech.edu/abtcllg.php>

Program Outcomes of Departments are available at the Department Websites

<https://www.psgtech.edu/index.php>

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution**Method of assessment of POs / PSOs**

The program outcomes and Program Specific outcomes are assessed with the help of course outcomes of the relevant courses through direct and indirect methods. Direct methods include direct examinations or observations of a student's knowledge or abilities in relation to measurable course outcomes. The programme outcomes are evaluated, and the PO attainment level is determined by the Program Assessment Committee.

The results of the final examination are published at the end of each semester, and the course outcomes are assessed. At the end of each module, students are given assignments to help them appreciate the expected outcome of the subject. Each semester, two internal tests are administered

- Ascertain that students have attained the appropriate level of proficiency.
- To determine, whether the associated COs have been satisfied or not.
- Depending on the student's performance in answering each question, mapping is done with the relevant COs to analyse the attainment level of the specific CO of the course.

The institution also tries to attain the course outcomes and program outcomes by conducting the activities such as cultural activities, N.S.S, Career Counselling, Personality Development Program, and Communication Skills, Lectures, Health Awareness Programs etc.,

In outcome-based education, a feedback system is employed to improve the teaching-learning process. An alumni survey is a valuable tool for determining the degree to which the programme is relevant to the industries desired competencies.

Employer surveys are undertaken to determine whether the information, skill, and attitude acquired from this institution meet their expectations or not. The purpose of conducting a student exit survey once a year is to identify numerous aspects for future strategy framing.

PSG Tech has implemented an outcome-based education system to ensure that CO and PO are met. The objective and outcomes are effectively mapped for student testing and evaluation, ensuring that PSOs are achieved through competency mapping in terms of knowledge and skills.

Direct Assessment methods • Continuous Internal Evaluation

• Group discussion • Laboratory performance (Term work) • Student projects • Assignments • End semester examination Result

The score of this assessment is taken into account for evaluation CO's.

Indirect Assessment Methods

- Placement
- Feedbacks
- Alumni survey
- Co-curricular activities
- Extracurricular activities

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

2.6.3 - Pass Percentage of students**2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution**

1995

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	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://www.psgtech.edu/NAAC/criteria_2/criteria_2.7.1.php

RESEARCH, INNOVATIONS AND EXTENSION**3.1 - Promotion of Research and Facilities**

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Promotion of Research

Having achieved a reputation as an excellent academic institute, there has been a paradigm shift to achieve excellence in research. As a measure to create a forum to discuss emerging research trends in various domains of engineering and to promote interdisciplinary research, Research Council has been established at institute level. The constitution of research council is

- Principal & Chairman
- Dean IR&D, CSRC
- Dean, Administration
- Dean, Academics
- Dean, Autonomous Functioning
- Dean, Computing and Networking
- Dean, Placement and Training

- Dean, Students Affairs
- Controller of Examinations
- Heads of Departments and Programme Coordinators from every department

The Research Council meets twice in an year to discuss on the research plans of individual departments, research electives/research related one credit courses to be introduced, additional research facilities to be established and multidisciplinary research that could be taken up.

A team of Visiting Professors and experts from India and abroad serve as R&D advisors and advise the faculty on the nascent fields of research and also keep updating on the new proposals that are invited by different funding agencies.

Faculty members are encouraged to get engaged in industrial consultancy and research. PSG college of Technology financially supports faculty in filing patents for their innovative ideas. Few commercially successful technology transfers were also made.

The research potential of the faculty members is evident by their publications in journals of repute, conferences conducted, funded projects and patents earned by them, etc. PSG College of Technology has established itself as a recognized Research Centre of Anna University for doing independent research leading to M.S or Ph.D. degrees. More than 600 research students are currently working full-time or part-time for their Ph.D degrees.

To monitor the research activities of doctoral research scholars, a student research committee has been constituted to conduct periodic review and support in furthering the research work.

Seed money is provided to faculty members of the institution to support the initial activities of research.

In order to inculcate research in the minds of students, a Student Research Council (SRC) is established with an objective of using the knowledge gained by students through their course and the unconventional thinking in creating innovations. Students are motivated to implement their conceived idea through appropriate funding.

- PSG Centre for Sponsored Research and Consultancy (PSG-CSRC) was established in 1989 in order to foster industrial consultancy and research. Consultancy work and testing of materials / products are being carried out for several Government and private industries and organizations by all the departments of the college through the centre.

The PSG-Science & Technology Entrepreneurial Park (PSG-STEP) was established in the year 1998 with the support from Department of Science & Technology, Government of India, IDBI and ICICI at PSG College of Technology to promote technology based enterprises in the areas of software, electronic products, hi-tech mechanical products, and eco-friendly textile products & bio-technology using the core strengths of PSG College of Technology. Incubation centre is available to accommodate 45 startups at one point of time and so far, have assisted more than 130 start-ups.

PSG - Industry-Institute Partnership Cell (PSG-IIPC) serves as a liaison between our institution and industries that are willing to collaborate in addressing the challenges in the thrust areas of research. Faculty members guide the students during their internship in industry to solve specific industrial problems.

PSG - Industrial Research and Development (PSG-IR&D) centre has a mission of bringing Industry and Institution together by providing technical R&D services to the industries. Full time engineers guided by the faculty do the R&D service to industry.

There are about 43 Centres of Excellences at PSG College of Technology established in collaboration with industry of repute spanning over a wider spectrum covering almost all the domains in Engineering. The following is the list of CoE at PSG College of Technology:

- PSG - NI Virtual Instrumentation Centre
- PSG - Festo centre for Pneumatic automation & Control Engineering
- PSG - Siemens Centre of Excellence in Automation
- PSG - Heidenhain CNC Centre
- PSG - Lectra Apprael CAD Centre
- PSG - SIRUBA-MEHALA Apparel Machinery & Equipments Centre
- PSG - ELMAQ ERP Training Centre
- PSG - Cognizant Open source Software Centre
- PSG - Juniper Centre of Excellence in Networking

- PSG - Freescale Embedded Systems Lab
- Karivardhan centre of Excellence in Automobile engineering
- PSG - Adept Centre for Robotics
- PSG - Ranal Centre for Software Testing
- PSG - Ashok Leyland Automotive Research Centre
- PSG - Techtronics Centre for Excellence in Robotics
- PSG - IBM Centre for Excellence in Operating Systems
- PSG - Cypress - PSoC Design Centre
- PSG - Siemens PLM Training Centre
- PSG - Exilant Textile ERP Centre
- TIFAC - CORE in Rapid Prototyping and Manufacturing
- PSG - Yuken Hydraulic Automation centre
- PSG - Rockwell Centre for Excellence in Industrial Automation
- PSG - L&T Centre for Excellence in Low Voltage Switchgears
- PSG - Premier Textile Technology Centre
- PSG - ASSYST BULLMER - MEHALA Fashion Studio
- PSG - Kawabata Centre for Fabrics
- PSG - Infineon Embedded Systems Centre
- PSG - Agilent Centre for Advanced RF Design
- PSG - TCS Centre of Excellence in Software Engineering
- PSG - Intel Multi Core Lab
- PSG - DRDO LSRB Wireless Telemetry Lab
- PSG - Fanuc Centre for Advanced CNC and Robotics
- PSG - Eplan Centre for Electrical CAD
- PSG - Rane Automotive Test Centre
- PSG - GENERAL MOTORS - PACE Centre
- PSG - DANFOSS Centre of Excellence for Energy & Climate Change
- PSG - Supra SAE Lab
- PSG - Juniper Networking Lab
- National MEMS Design centre
- PSG - SIMA Textile Technical Training Institute
- PSG - Welding Research Centre

Other basic facilities available for research are

- High speed internet facility with a bandwidth of 380 Mbps.
- Library with a collection 1,87,874 book volume covering the book titles of about 1,23,997 and 2438 journal subscriptions.
- Updated computing facility (including high speed computing facility) with good support system. Licensed software's are available for research use.
- High quality machining facility and rapid prototyping

facility are available.

- 24 hours power supply with the provision of a generator backup of 2010 kVA, 560 kVA UPS backup
- Generic and specialized software tools for simulation and modeling

I) Aims of the Policy

The research policy of PSG College of Technology aims to create and support a research culture among its teachers and students and leverage it for enriching and enhancing the professional competence of the faculty members. It also promotes the scientific temper and research attitudes of all learners leading to the realization of the vision and mission of the college. It also aims to ensure that the research and development activities of the college conform to all applicable rules and regulations as well as to the established standards and norms relating to safe and ethical conduct of research.

II) Scope of the Research policy

This policy is applicable to all the research and development activities of the college carried out by faculty members as well as students including the following:

- i) Research and development activities related to the basic and applied research undertaken for fulfilling the academic requirements or for solving Industrial problems
- ii) Publication, presentation and communication of the research outcomes and related activities.
- iii) Filing of patents based on the research outcomes
- iii) Creative activities involving the generation of new ideas and innovations leading to the development of a new knowledge and expertise.
- iv) Compilation and communication initiatives for keeping abreast of academic developments in any knowledge domain such as writing of text books, chapters of text books, lab manuals, monographs including the process of updating curriculum.
- v) Sponsored research projects funded by various central as well as state governments funding agencies and industries.

vi) Offering consultancy to industries including process improvement and product development.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.psgtech.edu/research_index.php
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

1.241

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

3

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

265.92489

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

32

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

199

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

13

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://dst.gov.in/
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Institution's Innovation Council (IIC) is a non-profit innovation promotion ecosystem functioning at PSG College of Technology which is dedicated to promote innovation and entrepreneurship among its faculty and students. IIC has been established with a vision to establish a vibrant innovation and entrepreneurship ecosystem to develop indigenous and sustainable solutions for addressing the societal needs. IIC supports staff, students, alumni, faculty and R&D partners in developing innovating solutions and to translate the technologies developed at its laboratories to reach out to the public as products, processes and services to benefit the society at large, which is synergetic with the institution's overall vision.

The Innovation & Start-up Policy document of IIC seeks to set clear guidelines and framework for technology transfer and commercialization of the technologies developed by the college, IPR ownership management, and technology licensing and venture development thereby striving to create of a smooth Innovation and Entrepreneurship ecosystem across the entire institution.

The major responsibilities of the IIC includes, but are not limited to:

- Organizing innovation promotion activities and events
- Organization of campus level Hackathons / idea generation events
- Providing seed funding support for promising innovative ideas
- Organizing Incubation Training and Entrepreneurship orientation for faculty mentors thereby building in-house expert pool for I & E related activities
- Establishing Regional, National and International linkages for the budding student entrepreneurs
- Building Innovation hub /Maker Space facilities with state-of-art pre-incubation facilities

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.psgtech.edu/IIC/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

B. Any 3 of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

51

File Description	Documents
URL to the research page on HEI website	https://www.psgtech.edu/research_index.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.82

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.2565

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

2831

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

16

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

50.567

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

67525501

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

From instilling patriotic spirit to hands-on tree plantation activity, National Service Scheme, PSG College of Technology has created an everlasting impact on students. 50+ students took part in the tree plantation drive. Around 70 students pledged to achieve carbon neutrality through "Not Zero, Net Zero" initiative. To foster the idea of recycling and reusing wastes, "Wealth Out Of Waste" event was conducted, where around 30 students took part and showcased their creative solutions in making wealth out of waste. Almost 25 real life problems were addressed and solutions for the same were elicited by the participants through the "Click and Decode" event. Under the

central government initiative "Ek Bharat Shreshtha Bharat", almost 25 students displayed India's rich cultural heritage and their patriotism through songs, dance and poetry. More than 100 students participated and got benefitted on healthy food habits through "Healthy Food for a Healthy Life" webinar. With around 800+ registrations from 40+ colleges, ASTRA, an intercollege event was conducted. The event addressed several societal problems and provided solutions for the same. Around 300 students participated in unit wise meetings and got to know more about NSS and its activities. To commemorate 75 years of Indian Independence in 2022, "Azadi Ka Amrut Mahotsav" was celebrated with various events like guest lecture on lessons learnt from India's freedom struggle, quiz based on India's freedom struggle and creative writing contests. Under the central government initiative "Unnat Bharat Abhiyan", a team also visited the adopted villages on 28th March 2021, noted down the difficulties they were facing and are currently working on a technological solution to address the issue of reducing water consumption in agriculture. More than 40 students participated in creating awareness posters and videos on COVID-19 vaccination through the event "Pixel Hunt and Cinimatrons". With many more initiatives focusing on voting, elimination of single use plastics, National Service Scheme, PSG College of Technology stood with the students in these tough times and infused social awareness in them. In total, the National Service Scheme of PSG College of Technology impacted 1300+ participants through several initiatives during the academic year 2020-2021.

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

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

19

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

9

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

404

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

868

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

21

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

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 equipments, etc.

The College (47.04 acre) has adequate facilities and has augmented its infrastructure to provide good ambience for learning. All the classrooms (183 class rooms, 10,108 m²) are well-lit by natural light through large windows and by LED lighting. Ceiling fans, Green Glass Chalk Board, Digital writing pad, LCD projector & screen with audio equipment's are fitted in the class rooms. 13 Smart boards in the class room's boosts attentiveness of the students. 89 Class rooms are equipped with PC & 100 Mbps internet facilities. Wi-Fi facility is provided in reading areas and in hostel to enhance the student's learning. Laboratories (18,540 m²) are well equipped and upgraded through TEQIP Schemes and Management support. Centre of Excellences (56) supported by leading industries are used to impart advanced technical skills. Seminar halls (3174 m²) & Auditorium (1264 m²) with ICT facilities are used for knowledge sharing, placement trainings, alumni interactions, and skill development activities. 5953 computers are used in teaching learning process for both students and faculty members. Simulation Softwares for laboratories and R&D activities are supported by Powerful server with high-speed network. Knimbus digital library platform provides remote access feature of all resource links in the e-Library.

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

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

The Department of Physical Education covers an area of five acres located near the hostel premises. The department is headed by a Physical Director, assisted by two Assistant Physical Directors and two Physical Training Instructors along with two markers as supporting staff. The activities are held throughout the year, every day, from 6.30 am to 6.30 pm. The department has sufficient facilities for both indoor and outdoor games for the students to practice and to conduct Intra-Collegiate, Inter-Collegiate tournament and Coaching Camps. The infrastructure includes a Football field and a Hockey field, indoor stadium with two Basketball courts with lighting facility, two Handball courts with gallery, three synthetic Tennis courts with gallery, four Volleyball courts, one Throwball court, two Ball Badminton courts, two Sepaktakraw courts, two Tennikoit courts, one Kho-Kho court, three Cricket pitches for net practice and one pitch for playing matches. An open air stadium with a stage, a pavilion on both the sides with a balcony gallery which can accommodate about 500 students and a VIP lounge is also available.

The facilities in the department enable students to participate in indoor games also. There are two games halls with each measuring 80' x 40'. The games halls have the provision for playing Table Tennis and Chess, a gym is also attached with the games halls. The gym has been equipped with number of single and multi-stationed equipments and other weight training accessories are also available to provide the students an arena to keep themselves fit. In addition to one old indoor badminton court (80' X 40') which is available with a seating capacity of about 100, two more new courts were established by our management (100'x40') with a seating capacity of 200. Facilities such as two parallel bars, one pull-ups bar, climbing rope and roman rings are also available for the students to develop their physique.

In order to provide an opportunity to exhibit their talents various intramural tournaments are organized. Training on advanced skills and tactics are being conducted for the college

team players by inviting eminent coaches. Boys are facilitated with facilities to participate in 15 different disciplines including events for differently abled and girls with 9 disciplines. The annual record reflects the teams' strength and their position University level. The students have show cased an impressive and consistent record of performance in almost all games and sports. They take part in the Inter-collegiate, Inter-University and various other local tournaments and have won many laurels.

Apart from various intramural and extramural competitions, we also conduct state level and national level basketball tournament, state level inter collegiate handball tournament, sepaktakraw tournament and a hockey league every year. These tournaments are completely organized by the students which give them an excellent opportunity to develop their leadership qualities and managerial skills as well.

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

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

113

File Description	Documents
Upload any additional information	No File Uploaded
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

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

3582.31

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

4.2 - Library as a Learning Resource

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

PSG Integrated Library Management System (PSG-ILMS) 5.0 is fully automated with the configuration of Microsoft Framework 1.1 (VS 2003), Oracle 9i, and Windows in 2015. Web OPAC is functioning with the configuration of Microsoft Framework 4.5 (VS 2012), Oracle 11g, and Windows 8. Advancement of Information technology shifts the In-house library management software from SYBASE to Windows 8 platform for the ease library operations. This In-house ILMS have the modules for Acquisition, Circulation, OPAC, E-Gate, Serials Control and Reports. Students can search the resources through OPAC campus wide access. It allows the users to search the Main library collections, Department library collections as well as the E-Resource Collections. All types of E-Resources links are integrated in the OPAC Homepage which facilitates the users to access through IP from their desktop itself. Integration of Library management Software developed in the following frameworks.

2000

2004

2006

2010

2015

SYBASE

Microsoft Framework 1.1 (VS 2003), Oracle 9i, Windows

Microsoft Framework 2.0 (VS 2005), Oracle 10g, Windows XP

Microsoft Framework 3.5 (VS 2008), Oracle 11g, Windows 7

Microsoft Framework 4.5 (VS 2012), Oracle 11g, Windows 8

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

- Name of the ILMS software : PSG Integrated Library Management System (PSG-ILMS)
- Nature of automation: Full
- Version :5.0
- Year of automation: 2000
- For additional information : <http://opac.psgtech/>

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	http://events.psgtech.edu/library/about-us.php

**4.2.2 - Institution has access to the following:
e-journals e-ShodhSindhu Shodhganga
Membership e-books Databases Remote
access to e-resources**

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	No File Uploaded

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

99.40821

File Description	Documents
Audited statements of accounts	View File
Any additional information	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 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

598

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

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

IT INFRASTRUCTURE

The IT Team of PSG College of Technology provides open, agile and adaptive software-driven educational networking solutions and secure digital transformation of education which improves learning outcomes.

Networking Solutions

During November 2017, the Network was upgraded to three tier topology architecture from 10 Mbps to 10 Gbps connectivity. It was segregated with multiple Virtual LAN Network for Wired, Wireless and Server farm network access.

802.11ac Wave2 based APs were procured in October 2018 and the Academic and Hostel Zones were made as Wi-Fi Campus. 500 Cameras are connected through separate Fibre optic to provide secured environment. Around 6300 computer systems are interconnected and used by Staff and students.

Data Centre

Virtual servers have been set up using high end servers and storage hardware with VMware and vSphere. Redundant Core Switches on VSS and Firewalls in High Availability Mode are deployed. This facility was established during March 2019, with a cost of Rs 1.5 Crore.

In-house Maintenance Cells

An online ticket tracking system was introduced where the staff members of Computer Maintenance Cell, Network Maintenance Cell and various other cells will rectify the problems faced by the end users immediately. This was developed and successfully implemented during September 2010.

Internet

Around 70 websites have been designed, developed and maintained in-house. Based on the Internet usage by the staff and students, the bandwidth procured from Internet Service Providers vary from 48 Mbps to 1400 Mbps over a period of seven years.

Content Management System

The Website of PSG College of Technology was made dynamic by building a content management system which enables each faculty to update their profile. This system was developed during December 2017.

Online Tools

During the pandemic period, the following online platforms such as Google suite, Microsoft teams, Cisco WEBEX and LMS tool MOODLE are being used for handling online classes for all Programmes from July 2020 to till date. An automated report generation software which takes input from Google meet Log server has been developed. The report contains the total number of hours and sessions handled for each of the courses.

Security Assessment

Security Assessment Audit was done by M/s. Cosmogenic IT Solutions Pvt Ltd, Coimbatore during February 17th, 2021

Services Provided

The IT infrastructure provides support for the students and staff

for all their academic and research related activities and remote access of Library resources and e-journals efficiently. This facility is fully utilized for e-Governance of the Institution. In addition, it supports PSG Software Technologies and PSG STEP (Science and Technology Entrepreneurial Park) for their innovative contributions.

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
8028	5953

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. 250 Mbps

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

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

C. Any two of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

2281.40

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

The separate system is available for maintaining electrical equipment's, Buildings, Computers Electronic Equipment's, and laboratory equipment's. Users can register their service needs through <http://maintenance.psgtech/> intranet website for getting service from electrical, plumbing, networking and computer technicians. Class rooms service support is provided by information desk established at each block. DG set, UPS, Lifts, and other major laboratory equipment's are covered under Annual Maintenance contract. Utilisation of seminar halls and facilities are made easier through online hall reservation system using <http://halls.psgtech>. Students welfare committee will meet at regular intervals to resolve the issues if any in the facilities. Digital library maintenance and updating e-learning facilities and software is regularly monitored by the dedicated library committee Under the Physical Director supervision, the indoor and outdoor games, Gyms, yoga training facilities are maintained well in a systematic manner. Maintenance of sports complex is taken care by separate team from hostel maintenance. Fire fighting system with dedicated staff is deployed in the campus, training to the students and users are provided at regular intervals. Drinking water dispenser unit is maintained by external agency

and the testing of water quality is ensured by regular sample test. Waste water treatment plant is operated and maintained 24 X 7 by dedicated team.

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

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1153

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

95

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://www.psgtech.edu/
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

837

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

B. Any 3 of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	No File Uploaded
Upload any additional information	No File Uploaded

5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
953	
File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded
5.2.2 - Number of outgoing students progressing to higher education	
129	
File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	No File Uploaded
5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year	
5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year	
147	
File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded
5.3 - Student Participation and Activities	
5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year	
22	

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

Students union of PSG College of Technology is a large wing which provides opportunities for the development of technical skills and knowledge through the various affiliated associations and promotes social, cultural and literacy activities through the various affiliated clubs. The students union is represented by chairperson, co-chairperson, secretary (men), secretary (women), secretary (science) and guided and monitored by Dean, Associate Deans and a team of faculty advisors. The office bearers of the students union are selected through a rigorous process by a team of faculty constituted by the Principal. The activities of students Union are governed by by-laws. The students union has a general council comprising of office bearers, general secretary of the hostel (men & women), and two secretaries of the previous year, sports secretary, secretaries of the affiliated clubs and associations, and class representatives. Students Union functions with 25 Clubs and 38 Associations which are guided by nearly 100 faculty advisors. Five NSS units, Four NCC wings and Physical Education activities play a vital role with additional support of Students Union in enhancing the personality traits of our students. Each club has students representation in the form of two secretary (1 boy & 1 girl) and executive members elected every year to run the club with the guidance and support of the faculty advisors. Co-curricular and extra-curricular activities, seminars, workshops, interactions with experts are organised by the clubs and associations to develop the personality, leadership and communication skills of students throughout the year. Associations provide a forum for discussing topics of general and technical interest and organize activities to promote their technical knowledge and to improve their understanding in the field. Every year, General Council Meeting is conducted by the students union in order to discuss the issues raised by the students. The students union is a democratic forum that finds solutions for the problems of the students related to academic and non-academic. The class representatives, secretaries of various clubs, associations, NCC and NSS attend various meetings and discuss about any issues/ problem or any other need for the Students welfare. The academic meetings represented by students

includes Class Committee Meeting, Board of Studies and Academic council. Class Committee Meeting comprises of a boy and a girl representative for the respective classes by each department to express their views on the teaching- learning process. Board of Studies meeting of each department include final year students to get their opinion on refining the syllabus. Students represent their feedback on the academic process in the Academic Council meeting. Internal Complaint Committee (ICC) consists of external experts, faculties and students to take care of internal complaints of students especially for girl students. Grievance Redressal Committee a dedicated online portal has been setup for students and staffs to log grievances, track and follow them up on the same. An Anti-Ragging committee is framed to ensure ragging free environment which is administered by Principal, representatives from faculty, representatives from parents association and student's representatives. The boys and girls hostel students also represents Hostel Council Meeting for the welfare of hostel students. The Hostel council consist of secretary, joint secretary, library secretary, PDC coordinators, Mess and block representatives who are elected by principal, dean and warden.

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

5.3.3 - Number of sports and cultural events / competitions organised by the institution

25

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

PSG Tech Alumni Association carries out various tasks that aim towards bringing the alumni to close interaction with the college. An engaged alumni network allows the college to benefit from the skills and experience of our graduates, by offering their support to our students, to the institution, and to each other.

Every year the PSG Tech Alumni Association at Coimbatore organizes events like Alumni Day, Young Alumni Meet, Technical Meetings, Entrepreneurship development programs, and product exhibitions. The Association has been conducting a state-level PSG Tech Talent Test for the 9th and 10th standard school students for the past 35 years. It conducts state-level PSG Tech Inter-Collegiate Tamil elocution for college students for the past 18 years.

The association provides financial support to needy and deserving students through scholarships annually worth Rs.20,00,000. Its operating Alumni - instituted Excellence Awards to be given for final year students of academic excellence. Every year Association conducts a Silver Jubilee reunion, Golden Jubilee Reunion, platinum jubilee reunion, and such occasions at the Campus.

Distinguished Alumni Awards are given to PSG Tech Alumni for Commendable Achievements in their field. Student Best Project awards were also provided to all UG and PG students worth of Rs.2,00,000. PSG Tech Alumni Association distributed Technovator Students Project awards for the students every year worth about Rs 3,00,000/-. On the occasion of Teachers day on 5th September, greeting cards were sent to all the teachers of PSG Tech and also to the Principals and the faculty members of other institutions, who are alumni of PSG Tech.

Young Alumni Awards were presented to young entrepreneurs who, after graduating from the college, had gone on to start business and brought about innovations in their respective fields and also notable achievements in their chosen field and got government service as IAS/IPS.

In more information:<https://alumni.psgtech.ac.in/>

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

5.4.2 - Alumni's financial contribution during the year

B. 10 Lakhs - 15 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 an effective leadership in tune with the vision and mission of the Institution

INSTITUTIONAL VISION AND LEADERSHIP:

- PSG college of Technology aspires to be a leader in imparting high quality education relevant to the societal needs by providing (a) facilities of world class standards (b) opportunities to create appropriate technologies (c)entrepreneurial skills.
- In this process, the norms of the government, regulatory bodies and the value system of the management pave the strong foundation for building the resources and their enhancement.
- To achieve such a noble goal decentralization is essential and teachers are involved in administration, decision making and grooming students. Senior faculty members participate in higher levels like governing council, academic council, grievance cell, academic audit and planning.
- Teachers with medium experience (8-15 years) look after students clubs and technical associations, and other supporting systems (alumni, scholarship, extra-curricular activities).
- Teachers with 3-8 years of experience takes care of students as tutors and senior tutors. Thus, all the teachers are involved in administration or supporting administration in addition to academic activities.

- Details of a few committees are provided that depict the functioning of academic council, general administration of the college and the administration of departments.

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

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

As a decentralization measure of general administrative responsibilities, new portfolios are created at different time intervals and Deans are appointed for the same. Heads of Departments are responsible for the academic and administrative matters of the departments with one or more programmes. Programme Coordinators are empowered to strengthen each programme of study and support the HoDs in providing outcome based education. Overall quality is managed through ISO system with Internal Quality Assurance Cell (IQAC) and Internal Quality Circle (IQC).

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

During Covid 19.

As this was an unexpected situation and graduation of students was of prime importance during the onset of first wave (March 2020- September 2020) it was decided to conduct online classes for pending semesters followed by online examinations. For final year students also a similar practice was attempted.

The outcome expected is a reliable examination system without any

serious difficulty for students that minimizes the chances of malpractice.

This was achieved by assigning email id by the college to all students, implementation of a question bank with more number of questions enabling random generation of questions and proctoring live. Questions were scrutinized by a team for every subject.

Sufficient training was given to all students and their genuine grievances were addressed. Subsequently, students found it value adding as interviews and other competitive examinations are held online.

This is an example of implementing a strategy and it is different from just implementing online mode of TLP. The success of this strategy is measured by the student's feedback and their performance in placement. Both are encouraging. We used the expertise of teachers in creating a large question bank and this can be used for several situations even after off line mode is brought into practice after some time.

This strategy was discussed online with all HODs and approved by the Chairman, Governing council.

PLACEMENT & TRAINING

The Placement and Training office primarily focuses on enabling job opportunities for every student of the college who aspires to get employment. With autonomous status, the institution ensures students to undergo a rigorous and exuberant teaching & learning process, amassing knowledge about both foundational concepts and latest advancements in their respective fields. To achieve this goal, measuring the common skills sought after by the employers must be continuously measured and improved in every batch of students. VISION Training Programme is an initiative in that direction.

The VISION programme is a psychometric-based career orientation programme designed to help students to understand and reflect on some of their inherent abilities for improvement. The Vision training program is conducted for the students enrolled in the first year B.E/B.TECH programmes. This programme provided necessary orientation for the fresher as well as a psychometric-test based counselling to ensure that they make the best use of their time in the institution. This programme measures the competencies of the students under the following skills.

1. - The knowledge and skills that students need in order to use mathematics in a wide range of situations
2. - The ability to read and write in at least one method of writing, an understanding reflected by mainstream dictionaries
3. Visual Reasoning - The logical reasoning topics using graphical representation of a problem and solving the problem based on the representation
4. Algorithmic thinking - A derivative of computer science and coding. It attempts to automate the problem-solving process by creating a series of systematic logical steps that process a defined set of inputs and produce a defined set of outputs
5. Attention to detail - The ability to identify and solve problems, particularly recognizing small issues that are not immediately obvious but have a significant impact on the solutions
6. - The ability to appreciate aesthetics and usability while presenting information or representing a flow

For continuous measurement and improvement, these skills are tested in the first, second and prefinal year of the programmes. The evaluation is done through the Placement & Training Office of the institution collaborating with a vendor offering professional counselling and psychometric evaluation services, and the results are reported as average percentages. These results enable the department and institutional stakeholders to evaluate the areas for improvement and the methods for improvement. Using this information the courses, course content, content delivery and evaluation methods may be fine-tuned. The VISION programme has been started with the 2019 admitted batch who will be graduating in 2023. The overall college level pattern of scores are shared and discussed with the heads of the departments by the Principal of the institution.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

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

Administrative Structure The Managing Trustee of PSG Son`s and Charities Trust is the chairman of the Governing Council of PSG College of Technology and Principal is the secretary. Principal is entrusted with the responsibility of smooth and effective functioning of institution. As a decentralization measure of general administrative responsibilities, new portfolios are created at different time intervals and Deans are appointed for the same. Heads of Departments are responsible for the academic and administrative matters of the departs with one or more programmes. Programme Coordinators are empowered to strengthen each programme of study and support the HoDs in providing outcome based education. Overall quality is managed through ISO system with Internal Quality Assurance Cell (IQAC) and Internal Quality Circle (IQC).

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.psgtech.edu/NAAC/criteria_6/criteria_6.2.2.php
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

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) Documen	No File Uploaded
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Faculty members with post graduate qualification are encouraged to pursue Ph.D either through full time in reputed institutes like IITs, IISc and NITs or part time mode within the college.

Faculty members are also encouraged to write competitive examinations like GATE / NET to improve their technical knowledge and qualified faculty members are honored for their achievements.

Faculty members are encouraged to organize international conferences/workshops/seminars in collaboration with reputed universities and institutes in India or abroad. Support is also extended to faculty members to publish their conference proceedings in reputed publishing houses like IEEE, Springer etc., so that the papers get indexed in Scopus/Web of Science.

Faculty members are encouraged to attend national and international conferences / workshops / seminars either within the country or abroad to upgrade their knowledge and to establish contacts with renowned academicians.

Faculty are motivated to attend online courses conducted by reputed agencies like SWAYAM based NPTEL, GIAN, Coursera, Edx in order to upgrade their subject knowledge and also the tools and methods for developing online content for their courses.

Faculty are motivated to contribute for improvement in teaching, training and learning facilities by establishing new laboratories and strengthening library by online journals and e-resources.

Faculty members are empowered to create new courses and opportunities are provided to introduce them twice in a year through Board of Studies.

Faculty members are allowed to network with similar group through Professional bodies. Active Memberships in professional bodies is given due recognition.

Faculty members are permitted to pursue research in their area of interest. The institute provides funds as seed money to the faculty for their research activities. Also, every faculty member is encouraged to undertake consultancy work in their area of expertise.

Faculty contribution with regard to paper publication, book publication, project received, research accomplishment, obtaining of patents etc are duly recognized and honored.

Non-teaching staff are encouraged to acquire additional skills and qualifications. Special training programs are organized by the college for the non-teaching staff which will help them to acquire technical as well as administrative skills necessary for the smooth running of the college.

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

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

59

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 programmes organized by the Institution for its teaching and non-teaching staff during the year

100

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

361

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal & External financial audit:

State government grant: Audit is conducted annually by the office of the State government Local Fund Audit and the consolidated report is submitted to the Directorate of Technical Education (DoTE), Chennai, for further action. In case of discrepancies pointed out by the audit team, remarks from the college are sought and if satisfactory, the issue is closed. If not, a suitable corrective action recommended by the DoTE is carried out by the college for closure of the issue.

Central government grant: Audit is conducted by the Chartered Accountant appointed by the college and relevant Utilisation Certificate signed by the Chartered Accountant and the Head of the Institution is sent to the sanctioning authority. Subsequently, audit is also carried out by the Accountant General's Office for final approval.

Management Grant: Concurrent Audit is conducted by the audit team of the accounts department of the PSG Trust. Annual audit is conducted by the Chartered Accountant appointed by the Management and the report is submitted to the Managing Trustee for further action.

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

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

nil

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

Mobilisation of funds is very important as this is an opportunity for all teachers to showcase their expertise to various agencies of Gov of India and industries on innovation and relevant problem solving.

It is monitored by the head of the institution and the targets are set and accepted by the faculty members and the HOD. The sources of funds are (a) Grant in Aid from the government of Tamil Nadu (b) Tuition fee (c) Autonomous grant from UGC (d) Consultancy activities and revenue earned (e) Continuing education Programmes and charges collected (f) Sponsored projects to augment research facilities and research activities towards the award of PhDs.

There is clear budgeting process submitted to the Government of Tamil Nadu and this is available for salaries of the aided staff and capital expenditure for the aided programmes. The funds are allocated from the fee collected towards salaries and other expenses of the self-financing programmes.

The autonomous grant sanctioned by UGC is spent as per UGC guidelines stipulated in the order (Library facilities, academic council related expenses and other autonomous functioning related expenses) Finance committee approves the funds allotted and college spend the same in those heads.

There is separate section dealing with Continuing education programmes and industrial consultancy. The revenue earned is put back into the system and faculty members are remunerated as per norms.

All PhD holders get the approval to guide PhD scholars and they are persuaded to apply for sponsored research. Various agencies like DST, AICTE, UGC launch various schemes and faculty members apply for grants through such schemes. These are the modes of securing resources and grants.

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

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Practice 1: Exploring of E-resources through Infed Shibboleth Access facility to students and faculty

Dr.GRD Memorial Library of our institution has introduced the Shibboleth access for accessing the library resources using the tool called Infed platform by Infilibnet. This tool helps the faculty, students and scholars to access the subscribed electronic resources even out of the campus. This tool also provides an option to understand the usage of electronic resources of our institution. The objectives of this practice is to provide remote access facility to all the students, faculty and scholars, promote the e-resources procured by the library, understand the effective utilization of e-resources subscribed by the library and facilitate the students, scholars and faculty to access the resources anywhere anytime. Our institution students are provided with Infed Shibboleth access by which they are able to access the e-resource available with the library in the campus as well as in the remote location. As an administrator, it is able to pull out the reports on publisher wise usage, publication wise usage, and content wise usage. Students are able to access the e-resources remotely. It helps widely during the pandemic period. Moreover, with a single click, all are able to get the relevant results in various content types. All the students are able to browse and familiar with the subscribed electronic resources. E-resources usage can be tracked and promoted to the

targeted user group. Less utilised resources can be identified and removed for the future purchase.

Practice 2: Vision Benchmark Assessment

The VISION programme is a psychometric-based career orientation programme designed to help students to understand and reflect on some of their inherent abilities for improvement.

This programme provides necessary orientation for the freshers as well as a psychometric-test based counselling to ensure that they make the best use of their time in the institution. Based on the psychometric analysis of a student, a one-to-one counselling is initiated to assist in academic and career planning sessions that follow in the subsequent semesters.

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

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Example 1: Reviews of teaching-learning process, and learning outcomes through PASCO, PADCO and BoS

Programme Assessment committee (PASCO), Programme Advisory Committee (PADCO) and Board of Studies (BoS) are created at each department to monitor teaching-learning process, its requirements in terms of curriculum development, introduction of new courses, creation of new facilities, training programmes needed, etc. PASCO meeting is conducted to measure and compare attainment levels of learning outcomes with set targets every semester. Necessary actions to improve those attainment levels are discussed in PADCO meeting and proposed to BoS.

Initially, each department conducts an internal Department Quality Circle meeting (DQC) within the faculty members to review teaching-learning process in terms of Course Outcome (CO) attainment for all courses including theory, laboratory, project work, and innovative practices laboratory. Programme coordinators

further map the CO attainment to a pre-defined Programme Outcomes (POs) and Programme Specific Outcomes (POs) of the programme. Overall findings would be presented by the Programme Coordinators, along with analysis and suggestion for improvement, in an upcoming PASCO meeting headed by the HoD. This facilitates to improve the quality of course and to revisit learning outcome targets. Also, a decision would be taken on faculty training in a particular domain, and syllabus content revision to bridge the gap, if any. Inferences from the PASCO meeting would be carried forward to the PADCO meeting which encompasses industrial experts and Ph.D. holders. On consultation with the experts, the HoD finalizes course of actions considering the expectation from job offering companies and institutions like NITs, IITs and foreign educational institutions. Findings from PASCO and PADCO meetings will be presented in BoS meeting, conducted every semester. Outcomes of BoS in the form of new courses introduction, syllabus revision, value-added courses, new assessment methods, etc. will be submitted to the Principal for further action. The suggestions thus submitted would be discussed, approved and passed on in the Governing council.

Example 2: Academic Audit

Academic audit has been planned to be conducted to monitor and review the performance of all the programmes in the institution. Academic Audit team evaluates the processes involved in the design and development activities of curriculum, teaching-learning process, student learning assessment process, the quality of resources to meet the learning outcomes, curricular and extra-curricular activities. In addition, the academic audit team also assesses the faculty competencies, quality and quantity of research and consultancy outcomes. A Self Assessment Report, (a specific format created by the institution) which is envisioned to elaborate upon curriculum, teaching learning, research, infrastructure and learning resources, student support and progression and student performance is prepared for each programme to quantify the efforts of the faculty and the students and is submitted electronically. All the programmes of the institution undergo academic audit process once in two years. An audit team comprising of two external academicians experienced in accreditation work and professionalism is nominated by the Principal Incharge for each programme /department. The audit team conducts offline / online evaluations through check of documents and interaction with stakeholders. An audit report indicating commendation / recommendation for enhancing the system is shared.

Example 3: Institutional reviews conducted by external/internal experts through ISO

External Surveillance Audit conducted by TUV-SUD yearly once to cover the process of admission, academics (Teaching Learning Activities), placement, examination system. Major non-conformities are reviewed during successive audit to ensure adherence to the process. All the departments are internally audited at least once in every semester. During the audit, any non-conformity observed is recorded in Corrective Action Request (CAR). Other observations are recorded through the Audit observation sheet. A closing meeting is conducted by Quality Management System (QMS) team to discuss the status of the quality system at the end of each internal audit among the auditors and auditees. Auditees propose corrective action with target date in case of CARs and observations if any. Through a follow up audit, auditors verify the implementation and effectiveness of the corrective action and record in CAR and Audit observation sheet. CARs which require management's attention regarding resource requirements and the status based on audit are discussed at the QMS review meeting for review.

After 2nd Continuous Assessment Test (CAT), an audit of CAT answer papers is carried out. The observations are recorded as per CAT answer paper audit report by Auditors and are collected during closing meeting by QMS Office. Observations collected are forwarded to COE Office for taking further actions based on deviations, if any, through office note authorized by Principal. QMS review meeting is conducted at least once in every semester. The Department Status Report (DSR) along with QMS computation is collected by QMS Coordinator as per the format before the meeting. Status of actions from previous reviews, changes in external and internal issues relevant to QMS, information on the performance and effectiveness of QMS, adequacy of resources, effectiveness of actions taken are discussed in every meeting to address risks and opportunities for improvement.

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

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the

A. Any 4 or all of the above

IQAC Feedback collected, analysed and used for improvement of the institution
Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.psgtech.edu/tech%20bulletin.php
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

PSG College of Technology promotes equal opportunities to all without any gender discrimination and has taken several measures for sensitization of gender equality for UG, PG and research students. Measures have been taken for equal opportunities during the implementation of various programmes. Five NSS units, Four NCC wings and Physical Education activities play a vital role with additional support of Students Union in enhancing the personality traits of our students. Security measures have been taken up for the safe environment for girl students to be free from ragging and sexual harassment. Grievance Redressal Committee a dedicated online portal has been setup for students and staffs to log grievances, track and follow them up on the same. An Anti-Ragging committee is framed to ensure ragging free environment which is administered by Principal, representatives from faculty, representatives from parents association and students representatives. Internal Complaint Committee (ICC) consists of external experts, faculties and students to take care of internal complaints of students especially for girl students. Separate common rooms and wash rooms are provided for both boys and girls.

Vending machines are installed in the women's wash rooms and its user guidance is provided by means of posters. To ensure safety and security of our students the security system is available with supervision and CCTV surveillance system in whole campus including one at main entrance. The hostel timings followed by students are strictly monitored by tutors and wardens for the safety of the girl students. Ladies hostel is especially monitored by both lady securities inside the hostel and male securities outside the hostel during both day and night time. The boys and girls hostel students also represents Hostel Council Meeting separately for the welfare of hostel students. There are various women secretaries in various clubs, sports, associations, hostel council and student council. Counselling sessions were organized by the institution with the help of the medical institute of the same management in order to create awareness on of gender sensitivity. The team of counsellors with Office of Placement and Training provided counselling services to students from the early days in college to get themselves clear about their career goals. As many students need guidance and care during their adolescence, counsellors continuously provided guidance on one to one basis for the entire class. Throughout the academic year our Institution,

- Guides incoming students to settle for campus life.
- Helps students in resolving issues related to learning difficulties.
- Assists students in exploring career pathways that suit them.
- Drives students towards setting and achieving career and academic goals.

The latest ICT infrastructure of the college and the online capabilities engaged in the office of Placement and Training enable students to register, submit all the documents, and undergo training/counselling/interviews and provide Full Time Employment (FTE) and Internships opportunities. Several workshops were organised by various clubs and associations to develop social responsibilities among the students. The programme "Vigilance Awareness on Corruption" was conducted by Women Development cell in association with Martial Arts club to create awareness among students on corruption and to extirpate it. Women Entrepreneurship was promoted through series of Tech Talks by Mrs. Sudha P, Founding President, WOBEDA and Ms. Jhansi Rani Vedachala, Managing Director, Jiore Skincare, in association with

Students Union, PSG College of Technology. "Tree plantation" event and "Jan Andolan Campaign on Covid-19" by NSS, and "Evening with Entrepreneur" webinar by E-club inculcated the socio-economic awareness and entrepreneurship awareness among students. In addition, many girl students took part in donating blood under the guidance of the Youth red cross society.

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

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

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management

Solid waste is collected from different locations and disposed through vendors, Food waste and vegetable wastes in the hostel are used in bio-gas plant and gas generated is used for preheating purpose, Kitchen oil and coconut shell wastes are used in our crematorium.

- **Liquid waste management**

Waste water in College and Hostel is treated using 1.5 MLD and 0.25 MLD plants. The treated water is used for gardening and discharged back into the environment.

- **Biomedical waste management**

Bio-waste is not generated in the campus

- **E-waste management**

All e-wastes are collected from the user departments and disposed through authorised vendor. MoU is being signed with M/s Green Era Recyclers.

- **Hazardous chemicals and radioactive waste management**

Not generated in the campus

- **Waste recycling system**

It is under process

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

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
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

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

B. Any 3 of the above

4. Ban on use of plastic	
5. Landscaping	
File Description	Documents
Geotagged 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 undertaken by the institution	
7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: <ol style="list-style-type: none"> 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	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded
7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities:	B. Any 3 of the above

accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

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

PSG College of Technology provides an inclusive environment for the students through the affiliated clubs and associations which plays a vital role in enhancing tolerance and harmony among the students. To expose the students, various activities such as personality development, leadership, managerial, socio-economic and cultural events are conducted entitled "Intrams" by the institution. Due to COVID pandemic, most of the activities are conducted through online this year. Auditions "Talent Hunt 2020" was conducted in Discord and Google meet platform by Tek Music to recruit new members into the club. Around 250 students took part in the audition and showcased their singing talents. A 12 hour digital live show "Completion of Phase one - RH for Coimbatore" was streamed digitally for completing phase one of RH of Coimbatore, an event includes recording the audios of 50,000 community people in and around Coimbatore, in getting their ideas and the changes we need for the upliftment of society. Another Digital live show was streamed for "Independence day" for 12 hours with back to back shows based on the significance of our Independence. Recruitment 2021 was conducted in zoom for 8 hours and around 300 students participated in the virtual recruitment. "World Radio Day Digital Live show" was streamed for 4 hours on account of World Radio Day. The inauguration of the Tamil Mandram club's "Kanitamizh Peravai" was performed by Mr. Marai T. Thayumanavan and around 80 students took part in the event.

"Netaji Piranthanal Vizha" was addressed by Dr. K. Sangavai, to realize the greatness of Netaji. A two day event called "Thulir" was conducted to encourage first year's students to join the club. A vocabulary event "Hindimania" was conducted by Paathshala Club in Quizizz and Google meet platform, to enhance the knowledge of students in basics of Hindi and 34 students took part in the event.

An awareness programme "Surviving the pandemic" was conducted by NSS to provide awareness on COVID-19 caused by SARS CoV-2 and nearly 50 students took part in the event. "Tree plantation" event was organized from 6th November to 9th November 2020, which inspired many students and as a result, 50 saplings were planted in their neighborhood. "Click and Decode" event has encouraged students to come up with new solutions to the prevailing socio-economic problems. The three different talent hunts -- singing, drawing and poetry -- were conducted on "Patriotism". The event "Ek Bharat Shreshtha Bharat" promoted learning culture and traditions. A two-day intercollege event "Astra 2021" was organized by NSS to connect the students from campuses all over Tamilnadu and provide a platform to showcase their talents. The events "Teaser" and "Ikonic" conducted by Youth Red Cross Society promoted blood donation and created awareness on saving earth among the students. More than 20 students took part in the event. Blood donors are encouraged and arranged regularly to meet the blood requirements in the hospitals in Coimbatore and other districts in the state. The programme "Vigilance Awareness on Corruption" was conducted by Women Development cell in association with Martial Arts club to create awareness among students on corruption and to extirpate it and around 40 students participated in the event. Women Entrepreneurship was promoted through Tech Talks by Mrs. Sudha P, Founding President, WOBEDA and Ms. Jhansi Rani Vedachala, Managing Director, Jiore Skincare, in association with Students Union, PSG College of Technology. PSG College of Technology's Youth Outreach Club enrich the 12th standard students knowledge of Manavar Ilam to set achievements every year. CHALKIE 2k21 is one of the grand events of Youth Outreach Club which brings out some passionate students who has a teaching skill within them. TEDxPSGTech an independently organized TED event, was organized by the Global Leaders' Forum which aims to empower and give voice to ideas from local community on a global stage.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

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

The Constitution of India has certain basic constitutional values that constitute its spirit and are expressed in various articles and clauses. It contains modern, universal, human and democratic values. It also helps as a set of principles, rules and procedures to reach a consensus. Values are the key to determine the rightness and wrongness in different situations. The values of integrity, transparency, accountability, fairness, public welfare and fairness are the guiding principles of Indian Constitution. These values are evident in the preamble, which describes Indian state as sovereign, socialist, democratic and republic; and the goals of the Indian state are freedom, equality, justice and brotherhood. It can be said with certainty that the values nurtured by the Constitution of India are based on solid moral foundation. The values enshrined in the Constitution of India inspires the Indian society to be more ethical, tolerant and helps to become responsible citizens of the nation.

PSG College of Technology offers the mandatory course 'Indian Constitution' as prescribed by AICTE for all the undergraduate engineering streams during their IV semester. The course helps to create awareness and sensitizes students on the significance of upholding the constitutional ideas, values and rights. The students are motivated to deliberate by organizing group discussions and debates on topics that help to inculcate constitutional values like, human rights, democracy, and fundamental duties. In 2012 regulation itself, a course on 'Sociology, Ethics and Human Values' was offered by the Department of Humanities to BE/BTech students.

The college observes and celebrates Republic Day, Independence Day and Constitution Day to remember the leaders of this nation and imbibe their values that were exhibited during freedom struggle, to uphold democracy and sovereignty and to protect the integrity of the nation at all times.

The Department of Humanities organizes and conducts a series of conferences entitled "Integrating Humanistic Values and Social Concerns with Technical Education" once in four years since 2006. The conference has served as a platform to instill the essence of human values among students, scholars and faculty members by eminent resource persons.

Provision for scholarships / rewards for deserving and well performing students and faculty members. Well planned and executed professional training by experts from the beginning leading to laudable career guidance in placement, entrepreneurship and higher education. Teachers are awarded international fellowship for advanced studies / research. In summary, PSG Tech offers a comprehensive and wholesome educational program to its students to become professionally competent to contribute to the world at large.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

C. Any 2 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 programmes, etc. in support of the claims	View File
Any other relevant information	No File Uploaded

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

PSG Tech values discipline as a core character of professional development in its students which will be necessary for their professional development. There are several associations' aid in character building among the students. These associations offer opportunities for learning life skills outside the academic setting by encouraging students to enrol as members in professional bodies, national / international organizations, local chapters, and skill development clubs. PSG College of Technology celebrates and organizes various national and international commemorative days, events and festivals. Mr. Cottalango Leon, a proud Alumnus of PSG College of Technology - 1992 Batch, Software Architect, Sony Pictures Image works, USA and an Oscar Awardee was invited as the chief guest to inaugurate the Students Union 2020-21 through Cisco WebEx. An Induction Programme for first years was conducted, in which Dr. Lakshmikanthan Ramakrishna, Vice President of Solidarity & Action against the HIV infection in India (SAATHII) Chennai, a national non-profit organization, was the chief guest. He pointed out the importance of gender equality. A series of eight tech talk was conducted relating higher studies abroad, opportunities in TNPSC and UPSC examinations, Entrepreneurship, Women Development, Women Entrepreneurship, and Importance of Healthy Food to lead Healthy Life. The 72nd Republic Day was celebrated in our college premise. The chief guest of the day, Dr K Prakasan, Principal in-charge, PSG CT unfurled the Tri-color Flag. A goal setting and motivational session was organized for office bearers, secretary of clubs and associations affiliated to Students Union. Ms. Anuradha Bhatkar, the resource person of the event discussed on "Discover yourself through strengths and weaknesses". National workshop on design, construction and flying of radio-controlled

aircrafts, National level aeromodelling competition and National workshop on Critics of Aviation Technologies and Operations (CATO-2021) was conducted by Aeromodelling club. KRIYA 2021, the most expected Techno management festival was successfully conducted online. Around 900 students from more than 50 technical institutions all over the country participated in 45 events and 7 technical workshops. Tech Days conducted every year to felicitate the outstanding meritorious students with Best Outstanding Awards for their excellency. Social Day is conducted for the final year's graduates for their social get together followed by some entertainment activities. Guest Lecture on "Wildlife SOS" was conducted with a motto to spread awareness about rescuing, rehabilitating wildlife and to save India's natural heritage. All India Council for Technical Education (AICTE) and Fine Arts Club of PSG College of technology conducted "Netaji Subash Chandra Bose Birthday event" to celebrate the 123rd birthday of the most inspired freedom fighter Subhash Chandra Bose. Guest Lecture on "Evening with Entrepreneur" was organised by E club to allow the students to interact and meet the pioneering entrepreneurs. "Young kalam Innovator" and "Technovator Ideation Challenge" was an idea presentation event which was conducted to kindle the creativity among students. TEDxPSGTech an independently organised TED event, is organised by the Global Leaders' Forum is to empower and give voice to ideas from local community on a global stage.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Practice: Energy, Environment, and Green Audit.

Objectives of the Practice

- Identifying the scope for conserving energy and water in

the campus and Broadly communicate the benefits of, and opportunities for, energy efficiency.

- Use of renewable energy to the maximum possible and limiting the carbon foot print
- Conservation of Energy and water by implementing energy efficient system and good practices.
- Effectively maintaining the solid waste, e waste, hazardous chemicals, and fire safety systems
- CO 2 audit at different locations and its solutions

The Context

- Lackluster awareness to leverage the latest technology in energy conservation and usage of best practices
- Space and security take priority over in-house waste management
- Effective use of recycled water in flushing system due to nature of available plumbing system

The Practice

- Roof-top solar PV system and Wind farms with wheeling agreements enables the usage of green energy to the tune of 85.5 % of total demand
- Variable frequency driven water pumps with pressure sensor integration made the aqua system becomes energy efficient and trouble free operation
- Efficient lighting system implemented though LEDs and servo stabilizers. BLDC fans, Centralised UPS, and Fan regulator system contributes significantly for energy conservation
- Wastewater treatment plant is built to meet the water quality requirements.
- E-waste is maintained by authorised outsource company
- Quality drinking water dispensing system with well-maintained RO Plant and filtering station
- Fire safety pumps installed with integrated fire alarm building systems
- Rain water harvesting at various locations of campus is being implemented and for farmer's community welfare rainwater harvesting scheme is supported along with the state government in the district.
- The treated water from STP is being stored in nearby water pond to increase the water table of local place

Evidence of Success

- Energy, Environment, and Green Audit was done with certified Energy Auditor during 01.07.2021 to 03.07.2021. Based on the auditor report the following points are provided for the evidence of success
- Electrical energy consumption in college and hostel put together is around 52,32,032 kWh. Out of this much consumption 44,73, 764 kWh are being from green energy.
- Through Solar water heater the equivalent electrical energy saved is 8,04,000 kWh
- Bio gas plant supporting for preheating cooking applications in hostel mess, through which 8,490 kg of LPG gas is saved
- CO2 emitted in the campus is around 4556 Tons / Annum, CO2 neutralised through green energy is around 4385.8 Tonnes / Annum. Per capita CO2 is found 24.3 kg / Annum.
- Our Institution is nearly 96.3 % green Energy Institution
- Nearly 200 Water dispenser units with 2 RO plants of capacity namely 6,000 Litre/hour in academic building and 25,000 Litre/hour hostel building. TDS is well maintained between 70 -100.
- Around 1350 trees are being numbered and maintained with treated water
- 0.25 MLD and 1.5 MLD Sewage Treatment Plants are operating well and treated water is tested at regular intervals
- 7 MLD rain water harvesting bore-well for the depth of 110 m is provided at 7 locations to cover 14 acres

Problems Encountered and Resources Required

- Evacuation of unutilised roof top solar PV power during holidays is not possible due to regulations of TANGEDCO, a proper programmable load shedding unit may help in improving the utilisation
- Utilisation of bio gas plant is to be improved and management is working on it.
- Solid waste management system is to be improved by proper segregation at the collection point
- Water conservation steps to be implemented through awareness programme among the users

Notes (Optional)

- Navigation among different blocks is made easy through connection corridors at different levels of the buildings and usage of lift is reduced
- Smart app for registering complaints and maintenance is

developed.

- Electric vehicles are using in material movement and local travel

File Description	Documents
Best practices in the Institutional website	https://www.psgtech.edu/NAAC/criteria_7/criteria_7.2.1.php
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The current priority or the focus area of the institute is to encourage budding student entrepreneurs who can bring out innovative solutions in terms of products or services resulting in startups or patents through Institution Innovation Council (IIC), which was established in the college for the same. Towards this goal, student engagement in Startups and the academic benefits they derive in such activities are brought in their programme regulations. In order to prepare the interested students to transform themselves as budding entrepreneurs, integration of innovation and entrepreneurship activities with academic processes will be exercised in a slow and steady pace with due diligence. Students are free to dedicate any time outside their regular academic hours and duties towards their companies. Besides, student entrepreneurs may earn academic credits for their efforts in working on innovative prototypes/business models with an intent of setting up a start-up with a possible incubation under IIC. They will be allowed to earn credits by opting for startup related activities in place of the courses under the category of Employability Enhancement Courses (EEC) in UG and PG curriculum. Interdisciplinary/ multi-disciplinary areas will be given special preference. Students are advised to form teams from various disciplines while working in such projects.

The Innovation & Entrepreneurship (I&E) expert committee will review the startup/ innovation proposals submitted by students and give approval for credit conversion. Such proposals should clearly define the objectives and the expected tangible outcomes

in a clear and objective manner. At the end of the designated semester, the student teams are expected to make a presentation on the progress to the I & E expert committee which will then recommend grades based on the level of attainment of the stated objectives. Apart from undergraduate and post graduate students, PhD scholars are allowed to base their startup on their thesis or dissertation with due approval from their respective supervisors.

File Description	Documents
Appropriate link in the institutional website	https://www.psgtech.edu/IIC/
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

The following are the plan of action for the next academic year.

1. Encourage and support both full time and part time PhD scholars to complete their PhDs in the stipulated time by providing them support for publishing papers in peer reviewed journals and for writing their PhD thesis, in terms of plagiarism checking, formatting and grammar checking through appropriate software.
2. Encourage quality publications from the faculty and scholars in order to improve the h-index of the individual faculty as well as that of the college.
3. Increase the number of citations per faculty of the college benchmarking with colleges with higher ranks in NIRF rankings.
4. Increase the number of industry linked PhDs by providing a platform for industries to interact with the research scholars through research conclaves.
5. Promote student innovation and entrepreneurship by encouraging them to participate in innovation contests like Hackathons, Robocons etc. through financial and academic support.
6. Increase the number of industry consultancy projects carried out by the faculty and students by improving / upgrading the facilities and by providing training to faculty members in emerging areas.