

Annual Report

Academic Year 2023 -2024



PPG INSTITUTE OF TECHNOLOGY

NH – 209, Sathy Road, Saravanampatti, Coimbatore – 641 035
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
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Annual Report (2023-2024)

It gives me great pleasure in presenting the Annual Report of Academic year 2023-24 of PPG Institute of Technology, Coimbatore

To begin with, I thank the Management of our college for keeping faith in me and entrusting the responsibility of heading this great Institute. I have taken over as the Principal of this Institute on July 31, 2023. With the guidance from the Management and support from the faculty Members, staff and the students, I am confident that I will be able to carry out my responsibilities as per the expectation of all stakeholders.

In Coimbatore, the city famous for its hospitality and culture, **P. Perichi Gounder Memorial Education and Charitable Trust**, a renowned, benevolent, charitable educational trust was established in the year 1992 by Dr.L.P.Thangavelu, M.S., a leading Laparoscopic Surgeon, who envisioned imparting value education par excellence to students. The founder chairman Dr. L.P. Thangavelu, being the visionary and erudite educationalist has encrypted in the DNA of the Institution, the poise to evolve into a paragon of perfection and excellence. With the best support of his of PPG - making strides in achieving and accumulating accolades and laurels.PPG Group of institutions offers education streams in Engineering,



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College of Nursing, School of Nursing, College of Physiotherapy, College of Education, Teacher Training Institute, Business School and in Arts and Science. PPG Institute of Technology was approved by the All India Council for Technical Education (AICTE), New Delhi, PPGIT is affiliated to Anna University and is considered one of the top engineering colleges in Tamilnadu. The college offers an erudite atmosphere crafted with ethics and ethos of Indian culture, providing students with a holistic educational experience. Equipped with excellent facilities and state-of-the-art infrastructure, PPGIT is all geared up to perform and progress, making it one of the best engineering colleges in Coimbatore.

VISION

To be an institution of excellence that provides technical learning in Engineering and Technology to compete globally and raising the economic standard of the nation.

MISSION

The stated vision of the institution will be achieved by:

- MI1: To impart the sound technical knowledge in diverse engineering disciplines through innovative pedagogical practices.
- MI2: To create conducive learning environment with state-of-art infrastructure, laboratories and research collaborations.



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MI3: To enrich the competences of the students for economic and social developments

MI4: To empower students with global citizenship education, moral and ethical values in building sustainable society and nation.

COURSES OFFERED

We are offering the following undergraduate courses and post graduate in Engineering

1. B. Tech. Artificial Intelligence and Data Science
 2. B. Tech. Agricultural Engineering
 3. B. Tech. Information Technology
 4. B. E. - Biomedical Engineering
 5. B. E. - Computer Science and Engineering
 6. B. E. - Computer Science and Engineering-AIML
 7. B. E. - Electronics & Communication Engineering
 8. B. E. - Mechanical Engineering
 9. ME Engineering Design
 10. ME VLSI
- The annual intake of our UG programs is 360
 - The admission for current academic year including lateral entry is 281
 - The total strength of our college is 848



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- As on today, the Institute has More than 74 faculty members, which includes Professors, Associate Professors, and Assistant Professors. There are 10 non-teaching staffs in the college.

We believe that this course will make our curriculum better and help train a new group of professionals who understand Engineering and Technology really well.

SCHOLARSHIP

It's great to announce that both the Government and Management are providing scholarships to students for the academic year 2023-2024. Around 500 students benefited from the scholarships, indicating a significant outreach.

- Approximately 200 students are perceived MBC and BC students.
- 200 students have benefited from SC/ST scholarships.
- 100 students have availed First Generation scholarships.
- Apart from the previously mentioned scholarships, students have also received institutional scholarships.
- As well as 17 student beneficiaries are benefited by 7.5% Government scholarship from government.

Proposals submitted to district officials and subsequent sanctioning of scholarships for specific communities show active collaboration between educational institutions and government authorities.



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The scholarship provided by the government and PPG Educational Trust supports students in achieving their goals.

ACADEMICS – UNIVERSITY RESULTS

During the year 2023 we have achieved 34.6% /86% of results in April/May 2023 Anna University Examinations.

This consistent growth in the results shows the academic excellence of our institution due to the untiring efforts of the students and staff members and also the support given by the Management.

VALUE ADDED COURSE

In the academic year, students have accomplished a significant achievement by successfully completing a range of value-added courses, showcasing the institution's commitment to offering supplementary skills and knowledge alongside the core curriculum. These courses include:

- Auto CADD & Solid Works
- Additive Manufacturing
- Web App Development using React JS Mongo DB
- PCB Design
- Database Management System

These achievements highlight the institution's dedication to providing a well-rounded education and equipping students with practical skills in various domains. Moreover, these value-added courses not only broaden students' skill sets but also contribute to their holistic development, preparing them for the challenges and opportunities in their respective



fields. Congratulations to all the students who have triumphantly completed these courses.

INTERNSHIP

Internships serve as invaluable opportunities for students to bridge the gap between academic learning and real-world application. They offer a platform for students to gain hands-on experience, practical skills, and industry insights in their field of study. Internships provide a structured environment where students can apply theoretical knowledge to real-world projects, collaborate with professionals, and explore various career paths.

By participating in internships, students have the chance to refine their technical abilities, develop professional networks, and cultivate essential soft skills such as communication, teamwork, and problem-solving. Additionally, internships offer a glimpse into the day-to-day operations of organizations, helping students understand industry dynamics, workplace culture, and professional expectations.

Internships play a pivotal role in students' academic and professional development, preparing them for successful transitions from academia to the workforce.

In the academic year, several internship opportunities were successfully facilitated, each contributing to the professional growth and development of participating students. The internship details, as documented in the annual report, are as follows:



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Four students enrolled in the Computer Science and Engineering department seized the opportunity to undertake internships at **Yuvdeek Technology**. This experience allowed them to immerse themselves in real-world projects, gaining practical insights into their field of study.

A student from the CSE department had the privilege of completing an internship at **Accent Techno Soft**. This hands-on experience provided the student with exposure to industry practices and a chance to apply classroom knowledge to practical scenarios.

Seven CSE students were selected to participate in internships at **Gateway Solutions**. This significant engagement enabled them to collaborate with professionals, tackle real-world challenges, and develop essential skills crucial for their future careers.

Five students pursuing Electronics and Communication Engineering embarked on internships at **Wizard Systems**. This opportunity allowed them to explore their field of interest, gain practical experience, and expand their professional networks.

These internship experiences were invaluable, offering students the chance to apply theoretical knowledge in real-world settings, enhance their skills, and gain insights into industry practices. Such hands-on exposure is instrumental in preparing students for the demands of their future



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MEMORANDUM OF UNDERSTANDING

PPG Institute of Technology has partnerships with esteemed companies through Memorandums of Understanding (MoUs), demonstrating a commitment to collaborative growth and development. These MoUs, organized by department, reflect the institute's dedication to fostering knowledge exchange, innovation, and industry-academia collaboration

In Mechanical Engineering, Pandiyan Tea Factory & Industries has signed Mou with the institute.

For Artificial Intelligence & Data Science, Fuint Technology Solutions Pvt. Ltd from Coimbatore has signed Mou with PPGIT.

In Information Technology, SRI NANDHA INFO TECH, also from Coimbatore, has signed a MoU with the institute.

Additionally, IBM Cloud - Digilab (STAR Systems - Delivery Partner) collaborates with the institute's Chennai-based operations.

These collaborations open avenues for enriched learning experiences, research opportunities, and industry exposure for both students and faculty members. Through these partnerships, PPG Institute of Technology aims to maintain its position at the forefront of innovation while contributing to the advancement of technology and knowledge in collaboration with industry leaders.



PROFESSIONAL BODY MEMBERSHIP

In the academic year, the management demonstrated its commitment to fostering professional growth by facilitating the acquisition of memberships for faculty and staff. This strategic initiative emphasizes the organization's dedication to building a collaborative and knowledgeable community. Such efforts contribute to continual skill enhancement among members, positively impacting both individuals and the institution as a whole. By providing access to professional memberships, employees can engage in ongoing learning, networking. This investment in professional development benefits individuals by expanding their knowledge and expertise and strengthens the institution's culture of excellence and innovation.

The memberships acquired include

- ISTE (Indian Society for Technical Education)
- IAENG (International Association of Engineers)
- SAE (Society of Automotive Engineers)
- IEEE (Institute of Electrical and Electronics Engineers)
- ICT (Information and Communication Technology)



WORKSHOP, FDP, CONFERENCE AND SEMINAR ATTENDED BY THE FACULTY

During the academic year 2023-2024, the institution allocated financial assistance to support faculty members in attending conferences and workshops. A total of 50 faculty members benefitted from this support, collectively attending a diverse range of programs. These workshops, conferences, and seminars provided valuable opportunities for faculty members to enhance their knowledge and skills.

Moreover, the faculty members actively participated in these events, fostering a rich learning environment. The engagement of faculty members in such professional development activities not only enhances their expertise but also serves as a platform for students to learn from industry experts and cutting-edge research. Overall, these initiatives contribute significantly to the continuous growth and development of faculty enriching the academic experience and promoting a culture of lifelong learning within the institution.

CONFERENCE AND SEMINAR CONDUCTED

In the academic year 2023-24, our institution is dedicated to providing comprehensive career guidance and opportunities for higher education and competitive exams. Through specialized seminars, workshops, and programs, we aim to equip students with the necessary knowledge and skills to excel in their academic pursuits and career aspirations. Some of the notable events planned for this academic year include:



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"Web Application Open Source Technologies" is an enlightening session that delves into the latest trends and technologies in web application development, particularly focusing on open-source tools and platforms. This seminar aims to enrich students' comprehension of contemporary web development practices and equip them with pertinent skills applicable to the industry.

"GoKart - TNKC Season 1" presents an exhilarating competition tailored to challenge students' engineering prowess and creativity in constructing and racing go-karts. This event offers an exciting platform for students to translate theoretical knowledge into practical application, showcasing their innovation and teamwork.

The seminar "Future Trends in Industrial Automation" is dedicated to providing insights into upcoming trends and advancements in industrial automation technologies. Students will gain exposure to emerging technologies such as artificial intelligence, the internet of things, and robotics, along with their industrial applications.

The "Atomic Nuclear Energy Awareness Program 2023" is an educational initiative aimed at fostering awareness about atomic and nuclear energy, covering principles, applications, and implications. This program endeavors to educate students on the significance of nuclear energy across various sectors and its role in addressing energy challenges.

The "Innovation and Robotics Boot Camp" offers an intensive program focused on nurturing innovation, creativity, and robotics skills among



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participants. Through hands-on activities, challenges, and projects, students will enhance their problem-solving abilities and expertise in robotics.

The "Antimicrobial Resistance Awareness Program" is a dedicated effort to raise awareness about antimicrobial resistance, encompassing its causes, consequences, and preventive measures. This initiative seeks to educate students about the escalating threat of antimicrobial resistance and the importance of responsible antibiotic usage.

"How to Crack the GATE Exam" is a workshop meticulously crafted to provide guidance and strategies for students aspiring to excel in the Graduate Aptitude Test in Engineering (GATE). This prestigious examination serves as a gateway for admission to postgraduate programs in engineering.

"Cloud Computing with AWS" is a session tailored to explore the principles and practices of cloud computing, with a specific focus on Amazon Web Services (AWS), a prominent cloud service provider in the industry.

"Higher Studies Abroad" is an informative session aimed at offering insights and guidance to students contemplating pursuing higher education opportunities overseas. Topics covered include application procedures, scholarship options, and academic requirements.

"Project Development from Requirement to Implementation" is a workshop designed to impart practical insights into the entire project development lifecycle. From initial requirements gathering to final



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implementation, participants will refine their project management and execution skills.

"Career Interaction on Career Opportunities in the IT Industry" is an interactive session facilitated by industry experts. It aims to provide students with valuable insights into career opportunities and trends in the Information Technology (IT) industry, enabling them to make informed career decisions and develop relevant skill sets.

These events offer students invaluable opportunities to explore diverse fields, cultivate essential skills, and gain insights into emerging trends and technologies. Through active participation in these programs, students can enhance their academic knowledge, broaden their horizons, and position themselves for successful careers in their chosen fields.

RESEARCH PAPER PUBLISHED

In recent academic pursuits, our institution has spearheaded a range of impactful research endeavors across various fields. Noteworthy among them are:

Papers authored by Dr. V. Bindhu, including "Brain Tumor Detection and Marker-Based Watershed Segmentation for Size Estimation using CNN" and "Intelligent Systems and Applications in Engineering."

A research contribution from Mr. S. V. Ramanan, comprising two papers: "An Improved Modified Tracking Algorithm Hybrid with Fuzzy C means Clustering in Digital Mammograms" and "To Ameliorate Quality in Software Development Projects By Using Contemporary Agile Bug Tracking System."



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Dr. V. Bindhu's paper titled "Link Quality and Energy Efficient Optimal Simplified Cluster-based Routing Scheme to Enhance Lifetime for Wireless Body Area Networks," published in Nano Communication Networks.

Mr. S. V. Ramanan's contributions to "Eco-Friendly Sustainable Development in Power Consumption for Wireless Networks using Optimization Method," published in the Journal of Environmental Protection and Ecology, and "Energy Efficient Lightweight Scheme to Identify Selective Forwarding Attack on Wireless Sensor Networks," published in the Intelligent Computing and Networking Proceedings of IC-ICN 2023.

Additionally, Mr. S. V. Ramanan authored a paper titled "Challenges and Limitations of Few-Shot and Zero-Shot Learning," presented at the conference "Applying Machine Learning Techniques to Bioinformatics."

Ms. Mary Metillda showcased research on "FPGA Interfaced ECG Signal Processing Based on Machine Learning Classifier" at an IEEE Conference.

Furthermore, Ms. Shanthamani contributed to the publication of a book titled "Cloud Computing," while Global AasanResearch published another book.

Mr. Karuppanasamy published the paper titled "A Crossover Optimization Based Control for Making Strides in BLDC Motor Utilizing Renewable Source," which was published in the Taylor & Francis journal.

Under the Ministry of Commerce and Industry, Muthukumar J. filed a patent.



Muthukumar J published two papers "Influence of Cold Extrusion on Mechanical Properties In-situ Formed MMC" and "Analysis of Mechanical Properties on Bamboo E-Glass Reinforced Composite"

S. Balakrishnan contributed with "Evaluation of Coated and Uncoated Inserts of the Cutting Tool for Improved Machinability of Inconel 825 Alloy."

Mr. C. Vigneshwaran authored two books entitled "English Language Teaching - Present, Past, and Future" and "Optimizing Global Digital Marketing Communication Strategies for Cross-Border Success"

Dr. S. Omprakash published a book titled "Python for Machine Vibration Analysis."

NUMBER OF EXTENSION AND OUTREACH PROGRAMS CONDUCTED BY NSS

The National Service Scheme (NSS) at our institution continued its commitment to community service with various impactful activities during the academic year. These programs aimed to contribute to social welfare, awareness, and community development. Here are some notable activities:

- Voters Awareness Programme
- NSS Volunteer For karatumettu Temple Festival
- Mother Language Day
- Blood Donation Camp
- Isha Yoga Man Kaapom



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- National Welfare Project (Masakavundan Chettipalayam) - Awareness about Cleaning Campaign
- Blood Donation Awareness
- Donation to Orphanage
- Free Eye Checkup at Kurukkampalayam - Let's Love Your Eyes
- National Unity Day
- National Voters Day
- Orphanage Visit - Environmental Awareness Program to Students in Orphanage
- Road Safety Rally
- Save Tree Rally
- Swachh Bharat Mission at Masagounden Chettipalayam - Swachh Bharat - Cleaning Campaign
- Temple Cleaning and Service Activities at Oraikalpalayam
- Voter Awareness Rally
- Women Skill Development Training Program at Kurukkampalayam

These activities showcase the NSS's dedication to fostering a sense of responsibility, community engagement, and holistic development among students and the wider community.



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PLACEMENT

We are very happy to announce our 2022 - 2023 batches of students. Our efforts to groom our students have been successful and not only they have done well in academics, they have also excelled in finding job opportunities. Our placement cell has done a wonderful work in finding job opportunities for our students in arranging on campus and off campus placements. The following few companies have come to our college for on campus recruitment.

- OneYes Infotech Solutions: Python Developer
- Thirvusoft Solutions: Implementation Engineer (Trainee)
- Skyraan Technologies: Trainee Developer (Digital Marketing)
- Linga Technologies: Trainee Engineer
- Infy Gain Technologies: Web Developer
- Aquasub Engineering: Trainee Engineer
- Pss Groups (Mobile Manufacturing)
- Cotivity: Medical Coding

Packages starting from 2.5 lac per annum to 8 lac per annum.

We are proud to say that, we have placed 90 % of our eligible students and we are looking forward to place 100% of in the forthcoming years. Congratulate the efforts of the placement officer and also thank the Management in supporting the placement activities.



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INFRASTRUCTURE

Our Management is continuously taking care in upgrading the infrastructure of the college in setting up state of the art laboratories and other requirements.

In the year 2023-2024 they were upgraded in various Departments. We are continuously upgrading IT infra also.

LIBRARY FACILITY

Our college has Central Library with 60 seating capacity available and separate Stockroom is also available. Our Management has to spend Rs. 185980/- for printed Journals, online Journals, Magazines, books and other expenditure for this academic year.

TRANSPORT FACILITY

PPG Institute of Technology having around 25 buses and operating in various places in and around Coimbatore. The use of cameras and GPS monitoring in each bus is a commendable initiative to enhance safety and security, ensuring a safer travel environment for the students and monitoring the buses to avoid any misconduct or mismanagement. PPG Institute of Technology is actively supporting government schools by providing buses for industrial visits.



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INTERNET FACILITY

Our college provides 24 hour's internet facility with 100 MBPS leased line connection for the benefit of the staff and students.

Also open Wi-Fi facility is made available throughout the campus

AWARDS/MEDALS FOR OUTSTANDING PERFORMANCE

PPG Institute of Technology is happy to announce the remarkable achievements of its students in various fields. We extend our heartfelt congratulations to the winners and participants.

- S. Ajith Kumar secured the first place in the Hockey Match event.
- Anand V and Akshay from the II ECE department participated in the Hockey event at the Anna University Zonal Tournament.
- A student from Hockey-2 at Sri Ramakrishane Engineering College participated.
- Our Volleyball team participated at Anna University Regional Center won the Third Prize.
- Students participated in both Hockey and Football at Park College of Engineering.
- Students from PPGIT participated Volleyball at Sri Ramakrishane Engineering College.
- Students from PPGIT participated Hockey at Anna University Regional Center secured the Second Prize.



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We sincerely congratulate all the winners and participants for their outstanding contributions. The student's dedication and talent have brought immense pride to PPG Institute of Technology. We encourage the students to continue participating in events and contributing to our vibrant community in the future.

VARIOUS COMMITTEES

In our institute, several committees have been formed to enhance the overall quality, discipline, and other aspects of the campus environment. The Anti-Ragging Committee is dedicated to controlling and preventing any instances of ragging, with a primary objective of ensuring a ragging-free campus.

Additionally, the Grievance Redressal Committee has been established to address and resolve concerns related to the quality of education and infrastructure. This committee plays a significant role in the ongoing development and improvement of our institution.

Furthermore, the Internal Complaint Committee has been set up to handle and rectify internal complaints. This committee is designed to address various concerns and issues raised within the institute, ensuring a fair and effective resolution process.

These committees collectively contribute to maintaining a positive and conducive learning environment within the institute, fostering quality education, discipline, and the overall well-being of the campus community.

SPORTS ACTIVITIES



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Our students are motivated in various sports activities and they have participated in the various tournaments conducted by Anna University.

Our institute has very strong kabaddi and hockey team. They have participated in various tournaments.

CULTURAL ACTIVITIES

We have different clubs like fine arts, yoga club and etc though which are conducting cultural activities continuously for the betterment of students.

EXTRACURRICULAR & CO – CURRICULAR ACTIVITIES

Our students are continuously motivated in these activities to bring in their inner skills. During the year 2023 our students have participated in the following activities conducted in other institutions

FUTURE GOALS

We have set in the following goals

1. NBA
2. Autonomous

I thank the support and encouragement given by our Management.

And I congratulate the efforts put in by our faculty members and students in achieving this success.