

PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH
Quarterly Report (April to June 2023)

ACADEMICS

Workshop on “3D Concrete Printing”

A National-level workshop on “3D Concrete Printing” was held on 25th April 2023 at PSG iTech. Ms Meera Mahalakshmi R, 3rd year Civil department student began the ceremony with a soulful prayer song. Welcome address was given by Dr G Chandramohan, Principal of PSG iTech. Ms.S.R.Thiruchelve, AP, Civil Engg. gave the welcome address of the chief guests Dr P S Ambily, Principal Scientist and Head CSIR-SERC, Chennai and Mr S Aswin, Sales Associate-Business Development at Tvasta Manufacturing Solutions Private Limited. The Inaugural address was given by the chief guests. Dr P V Mohanram, Secretary of PSG iTech felicitated the gathering. Dr M I Abdul Aleem, Professor and Head of Civil Engineering Department, PSG iTech gave the vote of thanks. Around 100 students of Civil 3rd year and 2nd year attended the program. Also 10 participants from other colleges (VSB Engineering College, Bannari Amman Institute of Technology, and Ramco Institute of Technology) also attended the program.

The esteemed resource person Dr P S Ambily, Chief Guest started gracefully introducing the theme for the workshop. Starting with the idea of 3D printing, then moved onto “Additive Manufacturing” and its advantages. She elaborated the definition and need of “3D Concrete Printing”. She discussed the types of printer systems used for 3D Concrete Printing (3DCP). She stated that discontinuous pattern in printing, plastic collapse and budging issue are some of the challenges faced during 3DCP. Tests that were done for the 3D Printed samples are Penetration test and compression test.

To enlighten the audience in the application of 3D printing in the emerging field of construction Mr. S. Aswin, the Guest Speaker started with the concept of 3DCP and the advantages associated with 3DCP. He explained the processes involved in additive manufacturing and showed the process related videos.



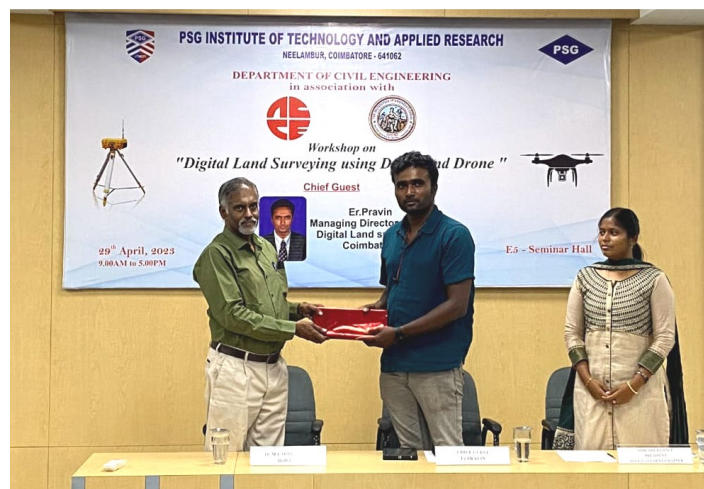
Student is interacting with the speaker Dr P S Ambily

During question & Answer session students were interactive, got clarified with their doubts related to 3D concrete printing. Also they requested for Internship and opportunities to work in projects during their final semester. Dr M I Abdul Aleem, Professor and Head of Civil Engineering Department ended the workshop with a summary.

Hands on Training on “Digital Land Surveying using DGPS and Drone”

The Department of Civil Engineering, in association with, the Association of Consulting Civil Engineers (India) and Institution of Engineers (India), organized the one-day Hands on Training on “Digital Land Surveying using DGPS and Drone” for the students of ACCE (I) - student chapter PSG iTech on 29th April 2023. Dr. M I Abdul Aleem, Head of the Department, welcomed the gathering with his presidential address. He stated the importance of latest technologies in the field of surveying.

Followed by, Ms. P. Mirudhubasini, Final Year student, President, ACCE(I), Student Chapter, PSG iTech, gave a brief introduction about the Chief Guest of the program. Er.Pravin, Managing Director, Digital Land Surveying Pvt. Ltd, Coimbatore addressed the gathering in the topic of “Significance of Land surveying and Mapping - past and present”. He elaborated the techniques, which were used before 100 years, and how it evolved in the present days, also he insisted the students to make use of this opportunity in the field of surveying.



Dr. M I Abdul Aleem, Head of the Department, Civil Engineering presenting a memento to the resource person Er. Pravin, Managing Director, Digital Land Surveying Pvt. Ltd, Coimbatore on 29th April 2023

The Resource person explained the principles of DGPS technology and how it can be used in land surveying. Participants were shown how to set up a DGPS system and how to use it to obtain accurate location coordinates. In the field, he also demonstrated how to use the DGPS system to map out an area and create a detailed topographic map. He also explained about, how drones can be used to capture high-resolution images and videos of an area from above. Participants were shown how to set up a drone, how to fly it, and how to capture images and videos using the drone's camera.

Hands on Workshop on “Advanced Design System”

The Department of ECE in association with M/s Elmack Engineering Services private limited, Chennai conducted a hands-on workshop on Advanced System Design (ADS) software at Communication System lab on 5th May 2023. Dr. Raghuraman Selvaraju, RF Application Engineer was the resource person. He discussed on RF circuit design and simulation. He also discussed on 5G implementation and its impact on communication industry. Thirty students from II, III and IV year ECE students participated in the workshop.

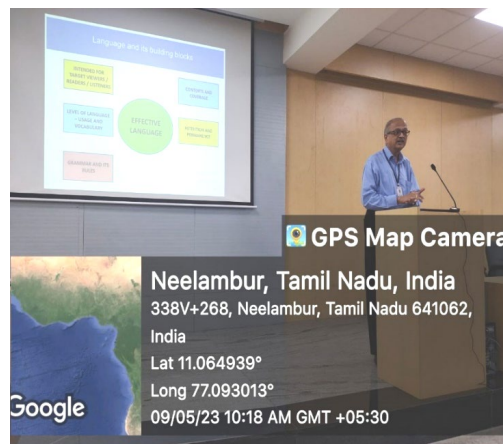


Dr.Raghuraman Selvaraju, Application Engineer, Elmack Services Pvt. Ltd handling the workshop on Advanced Design System

Workshop on “Technical Writing for Engineers”

The Department of Computer Science and Engineering organized Technical Writing Workshop on 9th May 2023 for the first year students of B.E. Computer Science and Engineering, B.Tech. Artificial Intelligence and Data Science & B.Tech. Computer Science and Business Systems. Dr R Manimegalai, Head of the Department, welcomed the gathering and gave inputs on Technical Report Writing. The guest speaker Dr. M. Devasena from Civil Department of PSGiTech and Mr.D.Muralidhar, Associate Dean-Higher Education and Training were welcomed by Dr R Manimegalai. Dr M Devasena outlined on the importance of writing a report. She also mentioned all the available tools for writing a proper error free report.

Mr.Muralidhar, Manager (Training), PSGiI, shared his work experience in different companies. He also gave many inputs on how to work with Grammarly. He showed the live working demo on how Grammarly works. It was really helpful for the students. Many new features were explored in Grammarly by the students. To incorporate the hands on practice, the students were told to bring their laptops and practice on it. Finally, the session was concluded by Dr Manimegalai.



Mr.Muralidhar, PSGII, explained about Grammarly tools

Workshop on “Statistics for Machine Learning using Python”

The Department of Computer Science and Engineering in association with Computer Society of India organized a three-day workshop on “Statistics for Machine Learning using Python” for First Year B.E.(CSE), B.Tech.(AI&DS), B.Tech.(CS&BS) students at Computer Centre during 10th and 12th May 2023. Dr G Chandramohan, Principal, PSG iTech welcomed the resource person Mr P Murugesan, Founder and CEO, Tulsi Consultancy Services, Chennai. He is having 35 years of experience in analytics, statistics and cutting-edge technologies in top firms. Dr R Manimegalai, Head of CSE, PSG iTech introduced the resource person and welcomed the gathering. She emphasized the importance of conducting workshop for the First Year Students. The workshop is coordinated by Dr.S.Lokesh, ASP/CSE. Dr. B. Gomathi ASP-CSE, Dr. P. Priya Ponnuswamy, AP(SL)-CSE. The workshop was well-attended by 162 Students of our college. Mr P Murugesan delivered inferential statistics are methods for quantifying properties of a population from a small sample and descriptive statistics summarizes observations from a set of data. He explained data cleaning and pre-processing, Selecting the right features, Model evaluation, Model prediction. Dr.S.Lokesh, one of the co-ordinators of this workshop proposed the formal vote of thanks.



Group photo of the participants along with the chief guest on 10th May 2023

Project Exhibition – III BE EEE

The project exhibition was organized by the Electrical and Electronics Engineering Department and IEEE Students branch, on 19th May 2023. With all energetic vibes the project expo, which was held in the Siemens Lab and Power Electronics Lab. Students of all five departments eagerly visited the exhibition. There were totally seventeen projects displayed in the expo. The students of Third-year EEE department gave a detailed explanation of their projects to all the faculty members and students. They were even questioned about the scientific concepts and theories behind their project. Various technical topics and ideas were chosen and demonstrated by the students. The Principal and HoD appreciated the efforts of the students and congratulated them for putting their best foot forward. The projects were evaluated by the faculty members and first three prizes were awarded. The projects which won prizes are listed below.



III-year EEE students project exhibition

Prize	Project Title	Project Team
First	Smart Load Management using IOT and Renewable Energy Management Analysis	Manoranjan M, Sreehareesh V L Ponmurugan K, Sakthivel P
Second	Raspberry VoiceCrafter: Intelligent Conversation and Object-Based Storytelling on Pi	Vignesh M, Mohamed Aseem Asfak M, Varsha N
Third	Automation of Fault Detection in Oil Filters	Shahana R, Anukeerthana S, Vallikannu V

Project Expo – II BE EEE

The Department of Electrical and Electronics Engineering organized a project expo on 22nd May 2023. This expo aimed to enhance the student's practical skills, foster teamwork, and facilitate learning in the field of electrical and electronics engineering. A diverse range of 17 projects was assigned to the teams, covering various sub-disciplines. Seventeen teams were formed, with each team consisting of four members. The teams were created to ensure a balanced combination of skills and knowledge. Each team followed a systematic approach, including project proposal development, resource allocation, project timeline creation, and procurement of required components.

Dr. C. L. Vasu, Professor and Head, EEE conducted a weekly review to organize the project work. The students also presented the status of the work to the HoD-EEE. The faculty members engaged in discussions with the teams, offering suggestions for further improvements and encouraged their critical thinking.



II-year EEE students project exhibition

Prize Winners:

Prize	Title of the Project	Team Members
1	Battery Management System (BMS)	Abhinesh S R, Girinith R, Madheshwaran S, Nandhan B
2	Automatic Fertilizer Distribution System based on Nutrient Content of Soil	Aditya Perumal E, Srinivasavi K, Harshini Gu, Iniyan A S
3	IoT enabled Patient Health Monitoring System for Primary Health Centre (PHC)	Pradhip A K, Sowmya R, Subhiksha M, Santhiya C
	Text reader for blind	Harish Muthu Shankaran B, Mohammed Abubakar Siddiq V A, Tanish Padmanabhan R J, Prince Jacob S

Project Expo - I B.E CSE

The Department of Computer Science and Engineering organized a project expo on 07th June 2023 for the first-year students of B.E. Computer Science and Engineering. Dr. P. Priya Ponnuswamy, the tutor of CSE, welcomed the gathering. On 05.06.23, the screening for the expo was done. Ten teams were shortlisted. Those ten teams presented their projects on the day of the expo. Students made their project using the image-processing concept. It was judged by Dr.D.Sivaganesan, Prof, CSE and Mr Vipin, an Alumni of PSG iTech. Each team presented for a duration of 5 minutes. A demo of the output was also performed. The selection was made and the top three teams were awarded. Finally, Dr.Manimegalai, HoD, CSE gave her comments and conveyed the vote of thanks.



The students were given prizes as a token of appreciation

Python Mini Project Expo - I B.Tech CS&BS

The Department of Computer Science and Engineering has organized Mini-Project Expo on 8th June 2023 from 2.45 pm to 4.45 pm for the first-year students from B.Tech. Computer Science and Business Systems. Dr.R.Manimegalai, Head of the Department, welcomed the gathering and congratulated the students for the final Mini-Project Presentation and she introduced the Project Expo Jury Ms L R Harismithaa, and listed her achievements in the field of Machine Learning. Following the Jury's introduction, the Jury Ms L R Harismithaa gave a short lecture on the topic "Introduction to Machine Learning and Deep Learning". After the lecture by 3:35 pm, the project presentations began.

Dr. N. Saravanakumar, Principal I/c, PSG iTech visited the expo and spectated each project presented by the students along with the HoDs, faculty members and students exhibited by the students of I Year B.Tech CSBS. The Principal gave his motivational and optimistic insights about the projects displayed by the students and finally encouraged the students to take part in such events in the future. The Chief Guest and the jury of the event announced the winners of the expo, The 1st position was secured by Team Student Study Sneak (Mr Arshad Ahmed, Mr Pavithran, Mr Vimal Balaji, Mr Yogeshwaran).



Dr. N. Saravanakumar, Principal i/c visited the expo and reviewed the Projects

Mini Project Presentation by First Year Students (2022-2026)

The Department of Computer Science and Engineering has organized Mini-Project Expo on 9th June 2023 for the first-year students from B.Tech. Artificial Intelligence and Data Science. Dr R Manimegalai, Head of the Department, welcomed the gathering and congratulated the to be shortlisted for the final Mini-Project Presentation and Dr V C Maha Vishnu, AP (Senior Grade), CSE introduced the Guest Mr. Rishikeshav K H, Software developer, Micro Service-JAVA.



Mini-Project Expo review by Dr I Kala on 9th June 2023

First prize:

Title: GOWA - A communication and Monitoring Assistant.

Team:

1. 715522243049 - Mr Sree Snehan
2. 715522243006 - Mr Anto Nickson J
3. 715522243027 - Mr Kuhan M
4. 715522243041 - Mr Sanjay Palanisami

Hands on Training on “Tekla Structures”

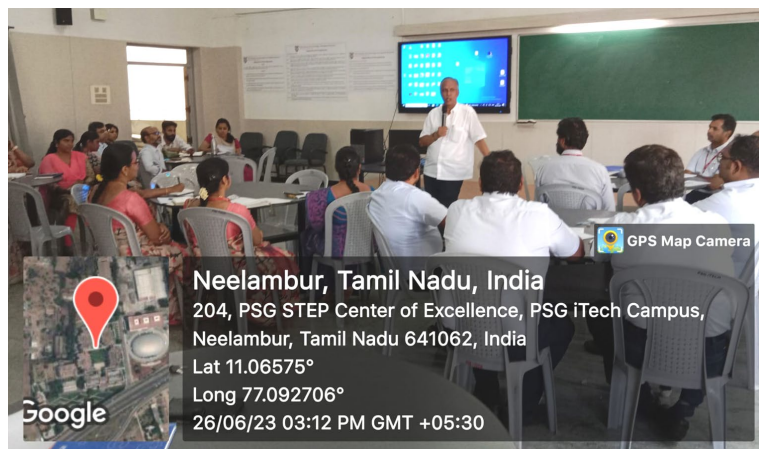
The Department of Civil Engineering has organized hands on training on “Tekla Structures” Software for the 3rd year Civil Engineering and M.E (Structural Engineering) students on 24th June 2023. Dr. M.Arun, Associate Professor initiated the training and Dr.J.Karthick, Assistant Professor of Civil Engineering was the coordinator for this program. The trainer Mr. S. Kanimozhi, Kani CAD Solutions, Tiruppur conducted the hands on training on Tekla Structures software. Also, she shared the information about the job opportunities in the field of detailing engineer among the students. She also insisted the students to build the passion on software learnings. The vote of thanks was gratified by Dr. J. Karthick, Assistant Professor of Civil Engineering. At last, the feedback has been collected from the students. Good feedback was obtained from both UG and PG students.



Ms. S.Kanimozhi delivering the introduction about the Tekla Structures Software on 24th June 2023

“Orientation Programme on Teaching-Learning Pedagogy in PSG iTech

An Orientation Programme on “Teaching-Learning Pedagogy” was organized by the Centre for Teaching-Learning Practices in association with Department of Electronics and Communication Engineering on 26th June 2023. Totally 43 faculty members across all the Engineering departments, Science & Humanities and PSG IAP participated in the programme. Principal, Dr.N.Saravanakumar, welcomed the gathering and briefed the importance of the orientation programme on Teaching-Learning pedagogy. Secretary, Dr. P.V. Mohanram, was the resource person of this programme. Dr.P.V.Mohanram shared his experiential learning on Teaching-Learning process in his career with many interesting stories. He emphasized all the faculty members to inculcate higher order thinking process to the students by asking more number of “why” type questions. Also, informed that how the faculty members to be prepared for the upcoming microteaching process practiced in PSG iTech. Faculty members shared their feedback and stated that the session was highly helpful to prepare for the microteaching process. The session ended with distributing the certificates to the participants.



Dr. P.V. Mohanram, Secretary addressing the faculty members in the orientation programme held on 26th June 2023

RESEARCH ACTIVITIES

Talk on “Research Opportunities at Deakin University”

The Department of Civil Engineering organized a guest talk on “Research Opportunities at Deakin University” on 06th Apr 2023. Dr. G. Chandramohan, Principal welcomed the faculty members and the guest Prof. Mahmud Ashraf, Associate Head of the School (Research), School of Engineering, Deakin University, Australia. Dr.T.Sakthivel, Assistant Professor, Department of Civil Engineering introduced the guest to the participants. During his talk, the guest emphasized the importance of bilateral research between PSG iTech and Deakin University. He briefly gave a talk on the various laboratories, centre of excellence and the present research areas in the Deakin University. Prof.Ashraf also gave a positive impact on the student exchange program for the present III year and the opportunity for internship at Deakin.



Group photo with the participants during the talk on “Research Opportunities at Deakin University” held on 06th Apr 2023

National Conference on “Communication & System Design”

The inaugural function of NC2SD 2023 was held on 13th April 2023 at PSG iTech. The chief guest for the conference was Dr M. Sabarimalai Manikandan, Associate Professor, Department of Electrical Engineering, IIT Palakkad. The event started with a prayer song rendered by Ms Mirnalini, 3rd year ECE dept, and Ms Harita, 2nd year ECE dept, followed by a welcome address delivered by Dr .P. Vetrivelan, Associate Professor and Head of the ECE Department. Followed by, Dr M Jayasanthi, Assistant Professor, ECE, who shared the conference in detail. The inaugural address was delivered by our beloved principal Dr G. Chandramohan and the presidential address was by Dr P. V. Mohanram, Secretary. The conference proceedings were released during the function. Ms. D. Archana, Assistant Professor (Sr. Gr), of the ECE, introduced the chief guest and highlighted his research contributions and expertise in the field. Dr Sabarimalai Manikandan delivered the chief guest address and briefed about the benefits of writing research articles by students.



Release of Conference Proceedings

The highlight of the conference was the keynote address delivered by the esteemed chief guest on the topic of "Internet of Things and Deep Learning Networks." The chief guest shared his vast knowledge and expertise in the field, providing insights that proved to be illuminating and thought-provoking. The keynote speaker highlighted the importance of signal processing techniques such as filtering, enhancement, detection, localization, and prediction in improving the quality of data obtained from sensors. Additionally, the speaker discussed the need for data reduction and quality assessment techniques, as well as data visualization methods, to effectively analyze large datasets. The keynote address also emphasized the significance of emerging technologies such as deep neural networks, edge computing, and IoT architecture. The valedictory address is delivered by Dr P Vetrivelan, HoD, ECE. He appreciated all the participants who presented at the conference. Best Paper Award for each session and Participation Certificates were distributed. Mementoes for the Chairpersons and Co-Chair Persons were presented as a token of appreciation. HoD thanked all students and faculty members who rendered their support for the successful completion of the conference.

International Conference on “Sustainable Materials and Recent Technologies for Built Environment (SMaRT 23)”

The Department of Civil Engineering in association with Deakin University, Australia and PSG CARE organized a SERB sponsored International Conference on “Sustainable Materials and Recent Technologies for Built Environment (SMaRT`23)” during 27th and 28th April 2023. The inaugural function was held on 27th April 2023. Dr. M. I. Abdul Aleem, Prof and Head of the Department of civil engineering welcomed the gathering of the conference. Prof Rajasekhar Balasubramanian, from National University of Singapore was the chief guest and Dr. Asokan Pappu, Chief Scientist, CSIR – Advanced Materials and Process Research Institute (AMPRI), Bhopal was the guest of honor of the inaugural function. During his speech, Prof Rajasekhar Balasubramanian emphasized the importance of the global warming and the role of indoor air quality for the better habitant.

Dr. Asokan pappu projects his idea on smart materials and the processing of the modern materials in the field. Dr. P. V. Mohanram, Secretary felicitated the conference and he addressed this conference is the need of the hour for the sustainable construction practice. Mr. S. El;ayaraja one of the organizing secretaries presented the vote of the thanks at the end of the function. Five key note lectures were organized in various fields such as structural engineering, geotechnical, environmental engineering and construction management. Prof. Mahmud Ashraf, from Deakin University, Australia presented the importance of timber and wood construction and briefed the advantages of the same. Prof. Ramanathan Ayothiraman, IIT Delhi emphasized the advances of the soil reinforcement application and the alternative materials of the conventional systems. Dr. V. Senthilkumar, IIT Palakkad, projected his ideas on the digital transformation in the infrastructure construction and the provided the importance of building information modeling and its future in the field.



Dr. M. I. Abdul Aleem, Prof and Head of the Department of Civil Engineering presenting a memento to the chief guest on 27th April 2023

For paper presentation, a total of 80 recent advancements in the civil engineering papers were received from countries such as Oman etc and institutes such as NIT, VIT, Karunya University etc., Peer reviewed quality papers have been shortlisted for the oral presentation with three parallel session was scheduled in various halls with chair and co-chair for each session and an online session was also scheduled.

Guest Lecture on “Nanostructures and Nitride compounds in Energy and Environmental Research”

PSG Institute of Technology and Applied Research organised a guest lecture on 2nd May 2023 on the topic "Nanostructures and Nitride compounds in Energy and Environmental Research" by Dr. Tiju Thomas, Associate Professor, Metallurgical and Materials Engineering Department, IIT Madras in online mode. A total of 20 faculty members (from PSG institution and various institutions) attended the program.

Dr. Tiju Thomas presented detailed information on functional properties of materials (electrical and electronic, optical, magnetic; applied surfaces and interfaces) are of abiding interest to us. In particular, solar energy harvesting, efficient light emission systems, and remediation materials have been the group's recent focus. Much of the science we do is easily extensible to sensor materials research as well. Eco-friendly, green engineering perspectives guide the synthetic chemical and fabrication routes that the group develops for fulfilling its goals. Furthermore correlations between synthesis, materials processes, and device performance is an increasingly common theme in the group's activities.

Dr Tiju Thomas discussed the funding opportunities and ways to write for any collaborative work with IITM. This would motivate our faculty members to apply for more projects and receive funding from DST, DBT and similar funding agencies. Also, it helps to make collaborative research across various institutions. The guest lecture ended with fruitful discussions.



Dr Tiju Thomas is presenting in online mode

Launch of GWAT- Atmospheric Water Generator

On the occasion of World Environment Day, 5th June 2023, PSG Institute of Technology and Applied Research, Coimbatore in association with A & A Consulting Services Ltd, UK launched GWAT a portable device which generates drinking water from air. GWAT was launched at PSGiTech by Prof.VS.Raju, former director, IIT Delhi in the presence of Former Principal of PSGiTech Dr.G.Chandramohan, Dr.Prasada Raju, former scientist, DST SERI, Delhi, Dr.N.Saravanakumar, Principal, PSGiTech and Mr. Vivek Subramanian, Director, A & A Consulting Services Ltd, UK.

Mr. Vivek Subramanian has initiated this project as a part of CSR activities of A&A Consulting Services Ltd. Dr. M. Devasena, Professor and Lead Research, and Dr.P.Manojkumar, Professor, Department of Mechanical Engineering were instrumental in the development of air to water generator which is intended to find solutions to the existing water scarcity. The primary focus is to produce safe and clean drinking water through a four step process. The machine needs a minimum humidity level of 50% to achieve optimal results. It is expected that 15-20 litres of water can be generated in a day. The product could also be used in pharma, hospitals, hotels and in any other water stressed area.



Launch of GWAT on 5th June 2023

Interaction with Prof Abir De Sarkar

Prof Abir De Sarkar, Scientist F and Dean, Institute of Nano Science and Technology, Mohali visited PSG iTech for an interaction with HoDs and few faculty members on the research areas in Nano Science and Technology. The meeting was held between 3 to 4 pm on 23rd June 2023 in the board room followed by visit to Polymer Engineering Lab and Nano - Crystal Design & Application Lab between 4 to 5 pm. A total of 10 faculty members participated in the interactive talk with Prof Abir De Sarkar.

He shared his research experience, which included Nano science in energy conservation and next generation electronics. Research clusters such as Computational nanosciences, valleytronics, piezo-spintronics were briefed to the group of faculty members. Possible avenues of research in computational nanosciences, energy conversion and next generation electronics were discussed. Funding opportunities and collaborative research with Institute of Nano Science and Technology, Mohali were also discussed.



Interaction with Prof Abir De Sarkar, Scientist F and Dean, Institute of Nano Science and Technology, Mohali

Visit to Christ University

Dr G Chandramohan, Principal and Dr R Ramesh, Director IQAC attended a two-day national seminar on “Benchmarking Academic Processes and Practices in Higher Education” on 27th and 28th April 2023 in Christ University Bangalore. Eminent personalities and veterans in the field of accreditation and ranking of higher education institutes took sessions. Some of the topics addressed are Bench marking for future direction of higher education, Bench marking as self-assessment tool in higher education and Data identification for documentation for bench marking process in higher education. This seminar has helped in identifying key parameters that is to be benchmarked in higher education institutes for getting and improving their ranking both in national and global level.



**Dr G Chandramohan, Principal and Dr R Ramesh, Director IQAC
attended a two-day national seminar on 27th and 28th April 2023**

CO-CURRICULAR ACTIVITIES

Two-Day Hands-on Training on "Sensing the Future - IoT and Automation"

The Two-Day Hands-on Training on "Sensing the Future- IoT and Automation" was organized by the Department of Mechanical Engineering from 12th & 13th May 2023. The event aimed to provide participants with practical insights and hands-on experience in the field of IoT and automation, facilitating the development of their skills and knowledge in this rapidly evolving domain. The Inauguration commenced with a soulful rendition of the Tamil Thai Vazthu, paying homage to our motherland. Dr. G. Chandramohan, the esteemed Principal of the institution, delivered a motivating welcome address, setting the tone for the event. Dr. P. V. Mohanram, the respected Secretary, delivered the felicitation address, emphasizing the institution's commitment to excellence. Dr. N. Saravanakumar, Head of the Mechanical Department, also shared his valuable insights. The training program featured practical sessions divided into two batches.

One batch participated in exercises at the Sensorics lab, while the other explored the Festo Industrial Automation Center. These state-of-the-art facilities offered participants a rich hands-on experience, enabling them to deepen their understanding of IoT and automation concepts. The training program attracted participants from diverse backgrounds, including students, faculty members, and industry professionals. The active participation of 50 participants enriched the program by bringing in their unique perspectives and expertise. The IoT module was led by Mr. J Nagarjun, Assistant Professor in the Department of Mechanical Engineering, who is a vibrant faculty member with expertise in IoT, sensor interfacing, and reverse engineering.

Mr. Nagarjun provided valuable guidance during the training, ensuring a fruitful learning experience for the participants. The Automation module was facilitated by Mr. M Senthilvel, Assistant Professor in the Department of Mechanical Engineering and the course coordinator for the event. At the conclusion of the two-day training program, certificates were distributed to the participants, and their feedback was collected. The participants expressed a high level of satisfaction with the program, providing positive feedback. The inclusion of the Sensorics lab and the FESTO Industrial Automation Center provided valuable opportunities for participants to acquire practical skills in the field.



Mr M Senthilvel distributing a Certificate to a Participant during the session

FPSI Training and Certification Programme on “Pneumatics Module-I”

The three-day training and certification program on Pneumatics Module I, an initiative by the Fluid Power Society of India, was hosted by PSG Institute of Technology and Applied Research from 5th to 7th June 2023. The event commenced with an inauguration function on 5th June 2023 with Dr. S. Chandrasekar, Corporate Director of Roots Groups of Companies, as the Guest of Honor from the industry, and Dr. N. Saravanakumar as the Guest of Honor from academia. The event witnessed the participation of 24 industry professionals and 4 academia representatives, marking its grand success.

Dr. R. Ramesh, Head of the Department, Mechanical welcomed the gathering, while Mr.S.Hemanth, President of FPSI, was available online to explain the activities of the Fluid Power Society of India. Mr. Shrikant Baikragi, Managing Director of Argo Hytos and Chairman of Training and Certification, provided a detailed explanation of the training and certification program. The Guest of Honor addresses were delivered by Dr. N. Saravanakumar, Principal of PSG iTech, and Dr. S. Chandrasekar, Corporate Director of Roots of Companies. The vote of thanks was given by Mr. Kaustubha Parki, Director of Fluidics Pvt Ltd. The entire session was moderated by Mr. M. Senthilvel, the course coordinator. After the inaugural function, several sessions were conducted on Pneumatic Control Chain, followed by Mr. J. Nagarjun, Assistant Professor in the Department of Mechanical Engineering at PSG iTech, who provided participants with knowledge about sensors and touched upon Industry 4.0.

The second day was handled by Mr. S. Ravikrishna, Assistant Professor in the Department of Electrical and Electronic Engineering at PSG iTech, who conducted sessions on electrical control systems and programmable logic controllers (PLCs). The afternoon session was dedicated to hands-on training in the Industrial Automation Center, facilitated by Mr. M. Senthilvel.



A group photo during the inaugural session with all the delegates and participants

On the final day, two pneumatic experts from Janatics India Pvt Ltd shared their expertise, combining inputs from both industry and academia for this three-day training. A theoretical and practical exam was conducted for the participants, and those who met the requirements were certified during the valedictory function on 7th June 2023, with Mr. J. Ganesh Kumar, Managing Director of Indoshell Private Ltd, as the Guest of Honor.

Certificates were distributed during the function, and feedback from the participants was received. The overwhelming positive feedback from the attendees highlighted their appreciation for the three-day event, with many expressing interest in a Pneumatics Module II. The vote of thanks was delivered by Mr. U. L. Jayaprakash, Deputy Director of Argo Hytos Private Limited marking the end of the three day event.



Hands on training at FESTO Industrial Automation Center

EXTRA-CURRICULAR ACTIVITIES

iTech Dialogue

PSG Institute of Technology and Applied Research, Coimbatore hosted “iTech Dialogue” for the students of PSG Institutions on 01st April 2023 at PSG Convention Centre. Shri Sridhar Vembu, Founder and CEO, ZOHOO Corporation, served as the chief guest for the event. Students from PSG Tech, PSG iTech, PSGCAS and PSG Institute of Architecture and Planning participated and interacted with the chief guest. He insisted students to deepen their technical skills to compete on a global scale. He also requested the faculty members to enable out-of-the-box thinking among the students and encourage doing multi-disciplinary projects. While talking about rural development, he stated that the greatest challenge of India lies in transforming rural India and empowering rural students to think big and create great wonders.



Chief guest, Shri Sridhar Vembu, Founder and CEO, ZOHOO Corporation, addressing the gathering during “iTech Dialogue” held on 1st Apr 2023

Speaking about entrepreneurship and entrepreneurial culture, he urged the students to think about engineering in terms of business, especially analyzing business facts from a number perspective to enhance productivity for gaining huge profits. In addition, he emphasized that the demand for software was excessively high in comparison to the level of output and declared unequivocally that India has the capacity to become the richest nation on earth. He also insisted on the importance of spiritual faith and the necessity of staying rooted in one's culture. Further, he spoke about the important qualities required for graduates like curiosity, commitment and passion. Shri L Gopalakrishanan, the Managing Trustee, PSG Institutions, Dr G Chandramohan, Principal, PSG iTech, Dr P V Mohanram, Secretary, Heads of the Departments, Members of Faculty, Staff and Students of PSG institutions graced the occasion.

SAE India BAJA 2023

The team named "Velocita Racing" from PSG Institute of Technology and Applied Research demonstrated their commitment to learning, perseverance, and hard work by participating in the SAE BAJA India competition, held at Chitkara University, Chandigarh, from 5th to 8th April 2023. Diverse teams from various colleges across India took part in this prestigious event. A cohesive group comprising 25 aspiring engineers specializing in both Mechanical and Electrical Engineering dedicated an entire year to collaborative efforts, sacrifices, relentless labor, failures, and valuable lessons, resulting in the creation of an all-terrain vehicle compliant with the regulations set forth by SAE BAJA. Throughout the process, the team successfully completed different presentations, including sales, cost analysis, and a virtual presentation employing IPG Carmaker, during the initial phases (Phase 1 and 2).



A group photo of the team at the pit area of Chitkara University, Punjab

Furthermore, they accomplished both the Electrical and Mechanical technical inspections during Phase 3. This challenging year presented the team with novel situations that necessitated critical thinking and problem-solving skills. They embraced these experiences as opportunities for growth, with the aspiration of continuously improving and aiming for a triumphant participation in SAE BAJA 2024.

The team was accompanied by their experienced faculty advisors, Mr.M.Senthilvel, Assistant Professor in the Department of Mechanical Engineering, and Mr.S.Ravikrishna, Assistant Professor in the Department of Electrical and Electronics Engineering, who provided invaluable guidance and support throughout the event.

Physical Activity Day

The Department of Physical Education of PSG iTech organized a Physical Activity Day - Walkathon for the members of faculty, students, and staff on 19th April 2023 from the college entrance gate till iTech Kalai-arangam. Mr. A. Robinson, Physical Director, PSG iTech, welcomed the gathering. Around 140 members participated in the event and benefitted. The rally was led by Dr. G. Chandramohan, Principal, PSG iTech and Ar. G. Tamilvanan, Principal, PSG IAP.



Group photo with the Participants after Physical Activity Rally organized on 19th Apr 2023

Installation of Office Bearers for 2023-24

The Youth Red Cross (YRC) club of PSG iTech organized an inauguration and installation of Office bearers for the club on 19th Apr 2023. The event was started with a prayer song by Ms. A. Ramya, 2nd year CSE, PSG iTech. Ms. D. Varsha, Joint Secretary, YRC Club of PSG iTech introduced the chief guest, and Dr. M. Sathiyathan, Faculty Coordinator, YRC Club of PSG iTech welcomed the gathering. Chief Guest, Mr. M. Ravi, M.A., B.Ed., Admin Secretary, IRCS, Erode dist. Branch, delivered the Chief Guest Address. He gave a wonderful speech regarding Humanity, Neutrality, Impartiality, Independence, Voluntary Service, Unity and FNS. More than 25 members attended the event. The MC desk was chaired by Ms. M. R. Abinaya, Vice President, YRC Club of PSG iTech and Ms. Samyuktha, Executive Member, YRC Club of PSG iTech. Dr. M. Sathiyathan gave the felicitation address and the induction of the office bearers took place. The Chief Guest presented badges to all the office bearers of YRC Club of PSG iTech. Finally, the vote of thanks was given by Mr. J. Johan Benoni Raul, President, YRC Club of PSG iTech.



YRC Club Office Bearers and volunteers along with the Chief Guest

Kurukshetra -Technovation:

The CEG Campus of Anna University in Chennai recently sponsored the International Techno Management Fest "Kurukshetra" on 19th April 2023 which included a project competition called "Technovation". The objective of the competition was to encourage students to develop innovative solutions for challenges encountered in the real world. Students from the third year of the EEE department at PSG iTech, Mr. Vignesh M, Ms. Varsha N, and Mr. Gnana Prakash S, participated in the competition by developing a project titled "Plasma Ionised Air Purifier." The project, which aimed at solving the issue of poor air quality, was based on negative ion technology, and the system was created to be compact, portable, and cost-effective. The concept earned excellent praise from the judges, and the team won the third place and a cash prize of Rs.10,000/-.



Award distributions to students at the valedictory ceremony

8th Sports Day

The 8th Sports Day was celebrated at PSG iTech on 12th May 2023. Principal of PSG iTech Dr.G.Chandramohan presided over the function. Mr.V.Ajithkumar, a renowned Pro Kabaddi player, participated as the Chief Guest and delivered the Sports Day Address. The event kick-started with flag hoisting by the chief guest. The chief guest along with the audience witnessed the impressive march past by the sports students.

Earlier, Heads of the Departments and Members of the Faculty distributed the certificates to the participants and winners of various events organized by the Dept. of Physical Education. The finals of the 4x200 relay event were conducted for boys and girls and prizes were distributed to the winners by the chief guest. During the valedictory function, Ms. Snehal Jain, III B.E. CSE, Sports Secretary of the college, welcomed the gathering, and Dr. G. Chandramohan, Principal (PSG iTech) delivered the presidential address. In his presidential address, Dr. G Chandramohan highlighted some of the significant achievements made by students in various competitions organized in the zonal, state-level matches, and appreciated them. He explained about the importance of physical fitness for leading a happy, healthy and fulfilling life and urged all the students to utilize the sports facilities available in the campus to stay fit physically and mentally.

Speaking on the occasion, Chief Guest Mr. V. Ajithkumar spoke about the role of discipline in sports like punctuality, respect etc. In addition, he requested the students to work hard and practice regularly irrespective of the result. Also, he stated that one should never be afraid of failure and quit as success and failure are both sides of the same coin. Further, he mentioned that developing good health is more important as it helps to lead a healthy life and spend time with loved ones to make beautiful memories. Finally, the chief guest along with other dignitaries released the sports magazine of PSG iTech 'Fitech 2023'

Later, Sports Joint Secretaries Mr. C. Kishore of II B.E. ECE and Ms. K. Anandhi of II B.E. EEE, presented the Men's and Women's Annual Sports Reports separately. Finally, Sports Secretary Mr. K. Sri Sivahare of III B.E. Civil proposed the Vote of Thanks.



Chief Guest Mr. V. Ajithkumar, Principal of PSG iTech Dr. G. Chandramohan, PSG IAP Ar. T. Tamilvanan awarded the Overall Championship Trophy for Girls to Godavari House which scored 150 points

“Cleaning Program” in Neelambur village

The NSS of PSG iTech conducted a cleaning program in Neelambur village on 17th May 2023. Around forty student volunteers participated, collecting approximately 100 kg of solid waste.



They also repaired a damaged road near the college gate to enhance public safety. The volunteers created awareness about cleanliness, proper use of dustbins, and tree plantation at the Neelambur Bus stop. Dr. P. Chinnaraj and Dr. D. Thangaraju, NSS Programme Officers organized the event. The Programme Officers expressed gratitude to the student volunteers for their valuable contributions to the society and for the successful conduct of the event.

Group photo with the NSS Volunteers

“Best NSS Volunteer Award”

Ms.M.P.Akshithaa, III year Civil Engineering department has received the Best NSS Volunteer Award on 28th May 2023 at Anna University, Chennai. The NSS Award Ceremony was graced by the presence of Honourable Minister of Youth Welfare and Sports Development, Thiru. Udhayanidhi Stalin, Thiru. Atulya Misra I.A.S., the Additional Chief Secretary of the Youth Welfare and Sports Development Department and Prof.R.Velraj, Vice-chancellor of Anna University.



Ms.M.P.Akshithaa, III year Civil receiving the Best NSS Volunteer Award on 28th May 2023

Event on “Junk Crafts and Life Hacks”

The competition on ‘Junk Crafts and Life hacks’ was organized by the Eco Club on 31.05.2023 in Chemistry Laboratory at 11.15 am to 12.05 pm as part of world environment day celebrations. The core idea of the event was to encourage students to put their innovative ideas into action to recreate waste materials like used water bottles, newspapers and used clothes into crafts and life hacks. A total of 5 teams (three or four per team) participated in the event. The duration of the completion was 45 mins. The winners were given prizes.



Students participating in the Junk Crafts and Life Hack event organized by Eco Club on 31st May 2023

Session on “Food safety and Hygiene”

As a part of Health and Hygienic practices, NSS club conducted an event on the topic “Food safety and Hygiene” on 31st May 2023. Students from all departments took part in this event. The chief guest of the event was Dr. Thenmozhi Subramanian, Medical Practitioner, PSG iTech. She gave a brief speech on the health practices to be followed in day to day life. She explained various yoga practices to be followed regularly to lead a healthy and peaceful life.



Dr. P. Chinnaraj presenting a memento to the chief guest

World Environment Day Celebrations

PSG iTech's Eco Club celebrated the World Environment Day by planting trees on iTech campus (near the earthquake lab) on 05th June 2023. The event was inaugurated by the Principal (i/c) Dr N Saravanakumar. In his insightful speech, he emphasized the importance of environmental conservation and the role of educational institutions in creating a sustainable future. About 200 students, Faculty, and Staff members actively participated and planted trees. Dr. A. Kumaravel, Eco-Club coordinator organized the event.



Celebration of World Environment Day on 05th June 2023

9th International Day of Yoga

The Department of Physical Education of PSG iTech organized the 9th International Day of Yoga for the Faculties, Staff members and Students on 21st June 2023. The yoga session started with prayer song and simple exercises. Around 44 members participated in this event. Mr.M.Senthilkumar, Yoga Instructor, elaborated on various yoga asanas and pranayamas (breathing exercises).



Resource person Mr. M. Senthilkumar along with the Faculty members, Staff members and Students participated in the 9th International Day of Yoga on 21st June 2023

OTHER MAJOR EVENTS

Faculty Awards Function

PSG Institute of Technology and Applied Research organized the Faculty Awards Function for the period July-December 2022 on 10th April 2023. Faculty Awards Function is being organized every six months to acknowledge contributions made by the members of the faculty in research and academics. Dr. E Malar, Professor, Dept. of EEE, and Mr. M Jothibas, Asst. Professor (Selection Grade), Dept. of ECE, organized the function successfully. Dr. G Chandramohan, Principal, welcomed the gathering and encouraged everyone to publish more no. of papers in reputed journals and urged everyone to enjoy the joy of doing research. Also, he appreciated the members, who gained international repute in research like Dr.G.Rajeshkumar, Associate Professor, Dept. of Mechanical Engg. and expressed his thanks to all the members for making meaningful research contributions. Finally, he thanked the management for generously granting money to encourage the faculty members.

Later, Dr E Malar, Professor, Dept. of EEE, made a presentation about the summary of awardees and other significant contributions made by the faculty members. Chief Guest Dr.V.Geethalakshmi, Vice Chancellor, Tamil Nadu Agricultural University, delivered the special address and distributed the prizes to the faculty members. During her address, she appreciated all the awardees for their contributions and reminisced about her rich experience in research collaborations with various national and international funding agencies. She shared how her passion for research led her to stamp success in the field. She also mentioned that teachers are the pillars of the institute and how teachers influence students in several aspects. In her talk, she stated with pride that 253 projects worth 39 crores have been received by TNAU. Also, she shared her experience in securing one of the significant projects worth seven crores.

Apart from these, she has given several tips and tricks for writing project proposals and advised the participants to choose the collaborators carefully.



Chief Guest Dr.V.Geethalakshmi, Vice Chancellor, TNAU, along with Principal Dr.G.Chandramohan, and Dr.P.V.Mohanram Secretary, PSG iTech, presenting the award to Dr A Kumaravel, Assoc. Professor, Dept. of Chemistry during the Faculty Award Function held on 10th Apr 2023

During the felicitation address, Dr. P.V. Mohanram, Secretary, PSG iTech, thanked the chief guest for her informative speech and recalled some of the important points shared during the speech. Finally, Mr.M Jothibas, Asst. Professor (Selection Grade), Dept. of ECE, proposed the vote of thanks.

Alumni Induction Programme - 2019-23 Batch

The Alumni Induction Programme for the 2019-23 batch students was organized by PSG iTech Alumni Association on 18th May 2023. About three hundred and four final-year students and faculty members have attended the event. Mr. Vijay Jayaram, Secretary, PSG iTech Alumni Association welcomed the gathering and the Principal Dr. G Chandramohan presided over the function. The Guests of honour, Mr. Aravindan R, 2014-18 batch Mechanical Engineering and Mr. Johny, 2015-19 Batch Civil Engineering were present. They shared their experiences in networking and also highlighted the importance of networking. Principal also highlighted the achievements of PSG iTech alumni and insisted that 2019-23 batch has a good contact with the institute and help the institution to reach greater heights.

Dr. M. Sathiyathan, Faculty Coordinator, PSG iTech alumni association, introduced the student coordinators for 2019-23 batches, Mr. Mugesh Kanna V (Civil), Ms. Nithiksha (Civil), Mr. Rawat Batul (CSE), Mr. Arawind (CSE), Mr. Gowtham GG (EEE), Ms. Amrutha V (EEE), Mr. Pranav R (ECE), Ms. Darshini S (ECE) and Mr. Sukumaran (Mechanical) and Ms. Harini (Mechanical) were introduced. The Principal and Guests of Honors presented the best final year project awards (first and second prize) to all the branches. Dr. M. Sathiyathan delivered the vote of thanks.



Alumni Induction Programme for the 2019-23 batch students held on 18th May 2023

Annual Day - Daksha: 2023

PSG Institute of Technology and Applied Research (PSG iTech) celebrated its 8th Annual Day on 23rd May 2023 at PSG Convention Centre. Ms. Dharani Karthikeyan, Vice-President, SAP Labs India participated as the Chief Guest and delivered the Chief Guest address. Shri. L. Gopalakrishnan, Managing Trustee, PSG and Sons' Charities, presided over the function and delivered the presidential address.

Dr.G.Chandramohan, Principal, welcomed the gathering and presented the Annual Report for the academic year 2022-2023. During the presentation, Principal highlighted some of the outstanding achievements made by the students and members of faculty in research, academics, sports, and other extension activities.

Shri L. Gopalakrishnan, in his presidential address, congratulated the students and faculty members for their remarkable achievements and urged all the students to play some sports regularly. Also, he requested everyone to utilize all the state-of-the-art facilities available in the campus for holistic living and to achieve great heights in life.

Ms. Dharani Karthikeyan, in her chief guest address, spoke about the opportunities available in start ups and highlighted some of the significant developments taken place in the start ups. While stressing the impact of latest technological developments like Artificial Intelligence, Chat GPT, Data Analytics, she pointed out how such technologies cause tremendous changes in the workplace and simplify the everyday work. In addition to that, she emphasized that customer is the heart of any business so understanding the needs of the customers and empathizing with them is important in business arena. Importantly, the chief guest stated the importance of emotional quotient over Intelligence quotient. She requested the students to be proactive, life-long learners, trustworthy, thoughtful and thankful. Later, the Chief Guest along with Managing Trustee, Principal, Secretary, and Heads of the Departments awarded the overall Best-Outgoing Student Awards to Mr Hari Nandhan of ECE (Boys) and Ms Prema of CSE (Girls). During the occasion, department-wise best outgoing students, class toppers, faculty of the year awards, supporting staff awards were also awarded.

Finally, Dr P V Mohanram, Secretary, PSG iTech, recapitulated some of the significant points shared during the session and proposed the vote of thanks. Later, iTech Music club along with Dance Club entertained the audience with mesmerizing dance performances and soulful songs. Also, NSS students performed a mime on the theme patriotism. Dr.R.Manimegalai, Professor and Head, Dept. of CSE along with her team successfully organized the event.



Mr Hari Nandhan of Final Year B.E. ECE (Boys) receiving the Best-Outgoing Student Award (Boys) from the Chief Guest Ms. Dharani Karthikeyan, Vice-President, SAP Labs, India during the 8th Annual Day Celebrations held on 23rd May 2023

Installation ceremony of the new Principal (i/c):

Dr. N Saravanakumar officially assumed the position of Principal (i/c) on 1st June 2023. Prior to this role, he served as the Head of the Mechanical Department, showcasing his extensive experience and expertise in the field. Dr.P.V.Mohanram, the Secretary, and Dr.G.Chandramohan, the former Principal, PSG iTech, Dr Jayabalan, Secretary - Institutional Interface and Dr.B.Ramamoorthy, Secretary, Research and Analysis –TQM were among the distinguished guests present at the installation ceremony.



Installation ceremony of the new Principal (i/c) Dr N Saravanakumar on 1st June 2023