

# **PSG Institute of Technology and Applied Research**

## **Quarterly Report (January – March 2022)**

### **Events Organized:**

#### **Inauguration of Science and Humanities Association:**

The Science and Humanities Association (SHA) of PSG iTech was inaugurated in the presence of Dr. Murugavel S C, Professor and Head, Dept. of Applied Science, PSG College of Technology, Coimbatore on 03.01.2022. Around 120 students along with 20 faculty members attended the inaugural function. Ms. Divyasri K S of Student of Civil Engineering Department and Secretary of Science Humanities Association welcomed the gathering. Dr.G.Chandramohan, Principal, delivered the presidential address. Dr.G.Latha, SHA Convener, introduced the office bearers of the association. Mr. Yuvanesh J of II B.E. CSE, Student coordinator, SHA, introduced the chief guest to the audience. Dr. Murugavel S C, in his talk, spoke about the importance of science education, technological advancements, and the role of science. During the talk, the speaker explained the inseparable role of science and humanities. Several interesting instances were shared about the way science and technologies impact various industries like automobiles, combustion, etc. Later, he explained the impactful role of chemistry in our daily life. Finally, Ms. Keerthana Vasana S, II B.E. ECE, Student Coordinator, SHA, proposed the vote of thanks.



**Inaugural function of the Science and Humanities Association was held on 03.01.2022**

#### **Awareness Programme on “Intellectual Property Rights”**

As a part of Azadi Ka Amrit Mahotsav, an awareness programme on “Intellectual Property Rights” was conducted by the Department of Civil Engineering, PSG iTech in association with Government of India (Ministry of Commerce & Industry) on 04.01.2022.

The function started with the invocation, followed by welcome address by Dr.M.I.Abdul Aleem, Professor and HoD, Civil Engineering. The presidential address was delivered by Dr G Chandramohan, Principal, PSG iTech. He stressed upon the need for the awareness towards Intellectual Property Rights. The chief guest of the function, Mr.P.Hariprasath, Examiner of Patents & Designs, Patent office, Chennai explained the benefits of Intellectual Property Rights. He briefed the difference between copyrights, patents, design, trademarks and geographical indicators. Mr.R.Rajkumar and Mr.V.Navin Ganesh, Assistant Professor (Sr. Gr.), Department of Civil Engineering, PSG iTech, were the coordinators of the event. Totally 92 participants have attended the session and got benefitted.



**Dr G Chandramohan, Principal, PSGiTech presenting a memento to the chief guest**

### **AICTE – ISTE Sponsored FDP on “Industry 4.0 and Electric Vehicles”**

The Department of Electrical and Electronics Engineering organized an AICTE – ISTE sponsored one-week online induction/refresher program on “Industry 4.0 and Electric Vehicles” from 17<sup>th</sup> to 22<sup>nd</sup> Jan 2022 with 285 participants from both engineering and polytechnic colleges across India. Dr. C L Vasu, Professor and Head, Dept. of EEE, welcomed the chief guest and participants during the inaugural ceremony and gave an overview of the program. Dr. G. Chandramohan, Principal, delivered the presidential address and emphasized that faculty members should be trained in the latest technologies. Prof. Vijay D Vaidya, Executive Secretary, ISTE, inaugurated the program. In his talk, he stressed the importance of acquiring knowledge and skills in emerging areas such as industry 4.0 and electric vehicles, and the need for faculty members to pursue research to enhance the rate of innovation in the country.



**Prof. Vijay D Vaidya, Executive Secretary, ISTE interacting during the inauguration held on 17<sup>th</sup> January 2022**

The inaugural session was followed by a session on “National Education Policy 2020” by Dr Gaurav Kumar Dhuria, Associate Professor, DAV Institute of Engineering and Technology. He shared his insights on the new education policy, which is holistic, futuristic, and flexible in offering value-based quality education. He described that this policy helps in creating individuals by enabling them develop their character, ethical and constitutional values, intellectual curiosity, scientific temper, creativity, and spirit of service, and becoming good human beings and global citizens.

The next session of the programme was on “Industry 4.0 – Technology and Trends” by Mr.Surendran D, Director- Global Delivery for Industry x.0 solutions, Maxbyte Technologies, Coimbatore. He presented the different layers of integration of Industry 4.0 and the challenges faced by industries in implementing Industry 4.0. In the afternoon session on 17-1-2022 and forenoon session on 18-01-2022, participants were introduced to “Edge Computing” by Dr Ananthanarayanan V, Assistant Professor (Sl. Gr.), Amrita Vishwa Vidyapeetham.

He explained the different microcontrollers and how smart systems and Industrial Internet of Things (IIoT) are driven by a combination of sensors, actuators, connectivity, people, and processes. He gave a detailed presentation on the seven-layer IoT architecture and demonstrated programming and transferring data to Thingspeak cloud using the STM 32 microcontroller board.

The second session on 18-01-2022 was engaged by Mr. Uthayan Elangovan, Founder & CEO, NeelSMARTEC Consulting. He discussed the topic “Industry 4.0 and Technology Development”.

He briefed the participants Industrial Internet of Things (IIoT) and its application with respect to saving energy in industry, smart grid systems, telematics, and communication in electric vehicles.

The third session on 18-01-2022 was on the topic “Stress Management”, which was handled by Dr. Dinesh Nayak, Director of Neurology, and Advanced Centre for Epilepsy, Gleneagles Global Health City. He indicated the various medical conditions that our body faces when we are in a stressful condition and described the methods of overcoming stress. The participants have taken part in the live session of reducing stress by Jacobson’s Relaxation Therapy and felt relaxed at the end of the session.

The first session of day-3 on 19-1-2022 was on the topic “Electric Drives” presented by Mr. Ramesh M, Senior Manager – Industrial Automation, Delta Electronics India Pvt. Ltd. He gave numerous industrial applications, where electrical drives are used extensively, and the technical aspects to be understood for selecting a drive for applications. The participants were briefed about the international standards followed for selecting a drive and the various power quality issues that occur in the drive.

The second session on 19-01-2022 “Machine Learning for Automation” was discussed by Mr.Syedghouse N, Chief Product Officer, Katomaran Technologies. He briefed the participants on the basics of neural networks and explained with examples how computer vision is used for doing predictive maintenance using machine learning algorithms.

The afternoon session on 19-01-2022 was handled by Dr. Sreenath Vijayakumar, Assistant Professor IIT, Palakkad, on the topic “Efficient Interfacing Circuits for Capacitive Sensors”. He explained to the participants the various issues faced while interfacing sensors for different applications. The design of interfacing circuits was discussed with the participants.

The first session of day-4 was handled by Mr. Ravikiran Annaswamy, CEO Numocity Technologies on the topic “Electric Vehicle Charging Solutions”. He explained to the participants the challenges faced by electric vehicles and their charging infrastructure. He emphasized the issues faced in batteries and their management, optimum use of green electrical power generated, and requested faculty members to work on these emerging research areas. The second session on 20-01-2022 was on the topic “Controllers for Electric Vehicle” by Dr. Moorthi S, Associate Professor NIT Trichy. He briefed the participants on different controllers used for automation applications. He briefed about the various input, and output devices to be controlled by the general-purpose processor.

He explained about FPGA-based design, how size and power rating are being optimized, and also provided an example of computing state of charge (SoC) of battery using Kalman filtering in the battery management system.

The afternoon session on 20-01-2022 was handled by Dr. Sundaram M, Associate Professor, PSG College of Technology. He described the choice of electric motor for electric vehicles. He briefed about the different magnetic circuit parameters and their arrangement of magnets in electric motors to change the speed-torque characteristics to suit various electric vehicle applications.

The forenoon session on day-5 on 21-1-22 started with the topic of “Challenges in Electric Vehicle Testing” by Mr. Prasanth kumar Palani, Chief Technical Consultant, Haritha TechLogix. Coimbatore. The session was very informative, and the participants were introduced to different testing methods along with their standards and practical applications. He explained the challenges that are being faced by the Indian electric vehicles industry.

The second session on 21-1-22 was handled by Mr. Manikandan P, CEO, Greenerg Mobility Solutions Pvt. Ltd., on the topic “Vehicle Control Unit”. He explained to the participants about the different control units available in the vehicle, the communication protocol in which the data are transferred from one control unit to another. The function of the vehicle control unit during different modes of operation of the electric vehicle was discussed in detail with the participants.

The afternoon session on 21-1-2022 was handled by Dr. Karthikeyan V, Assistant Professor from NIT Calicut, and discussed the topic “Advancement in Power converters for EV and their Charging Infrastructure”. The different converters used along with their algorithms to maximize the efficiency were discussed. The different charging topologies used, and corresponding advantages and disadvantages of the converter techniques were discussed.

The first session on the last day of the program was on the topic “Converters for E-Vehicle” by Dr. Rama Reddy S, Dean, Electrical Sciences, Rajalakshmi College of Engineering. He briefed the participants on the various circuit topologies used for different converter circuits used for the electric vehicle.

He covered design aspects of boost converters for battery charging applications, and isolated converters for wireless charging. He also mentioned that Silicon Carbide has revolutionized the power electronic industry.

The last session of the programme on 22-1-2022 was handled by Dr. Chitti Babu B, Assistant Professor (Sr. Gr.), IIITD & M Kancheepuram, Chennai, on the topic “Peer-reviewed Model and Publication Process in SCI Journals”. He made the participants aware of the journal indexing, publishing priorities, the importance of language and grammar. He helped the participants understand the different factors in choosing a journal for publication. He insisted that journal guidelines and author instructions are to be followed.

Based on the knowledge provided in each expert speaker session, an online test was conducted daily to evaluate the learning of the participants. In addition, on the final day, a test comprising of 50 questions was conducted. Certificates were issued to participants who have scored more than 60 % of the marks and with an attendance of 80%. Based on the criteria, 83 participants were eligible for certification in this faculty development programme. The valedictory function of the programme was held on the afternoon session of the last day on 22-1-2022. Dr. Vasu C L, HoD – EEE, proposed the valedictory address and he encouraged participants to keep learning the latest technologies in their areas of specialization. Dr. Subash Kumar C S, Associate professor / EEE, the coordinator of the programme proposed the vote of thanks.

### **Republic Day celebrations - 2022**

PSG Institute of Technology and Applied Research (PSG iTech), celebrated the 73<sup>rd</sup> Republic Day on 26<sup>th</sup> January 2022 in the college premises between 8.00 a.m. and 9.30 a.m. Wing Commander R Selvaraj (Retd.) Chief Flight Test Engineer, Hindustan Aeronautics Limited, was the Chief Guest and unfurled the National Flag in the Central Courtyard. Dr.G.Chandramohan, the Principal, welcomed the gathering and expressed his happiness and appreciation that both Boys and Girls NCC Units, in collaboration with various other clubs, worked collaboratively, and organized the event successfully in spite of the pandemic.

He explained how the chief guest was highly spirited and focused on joining the national service from his school and college days. Also, he appealed to young students that besides academics, they should participate in extra-curricular activities and enhance their unique talents along with life skills and managerial skills.





**Wing Commander R Selvaraj unfurling the National Flag during the 73<sup>rd</sup> Republic Day Celebrations at Central Courtyard, PSG iTech. Dr. G. Chandramohan, Principal, Dr. P. V. Mohanram, Secretary, PSG iTech, and Ar. K Venkatesh Kumar, Principal, PSG IAP are in the photo**

Wing Commander R Selvaraj, in his speech, thanked the PSG Institutions for rendering noble and selfless service to the nation through various activities. He congratulated the students for their impressive parade. Importantly, the chief guest underscored the success journey of PSG iTech in a short span of time in being recognized as a top-ranked college in NIRF and getting accredited for all the programs by the National Board of Accreditation (NBA). He shared various painful experiences from his personal and professional life to explain the struggles encountered by him to reach his goal of joining the Indian Air Force (IAF) and how it helped him to render yeoman service to the nation. While talking about the unsurmountable sacrifices made by the freedom fighters and forefathers, he highlighted some of the significant sacrifices made by the freedom fighters to set the country free and requested everyone to be forever grateful for all those freedom fighters.



**Wing Commander R Selvaraj appreciating the NCC Cadets during the 73<sup>rd</sup> Republic Day Celebrations at Central Courtyard, PSG iTech. Dr. G. Chandramohan, Principal, Dr. P. V. Mohanram, Secretary, PSG iTech, Ar. K Venkatesh Kumar, Principal, PSG IAP and NCC Coordinators are in the photo.**

In addition, he explained the need for applying rational thinking in decision-making. Further, he urged all the students to stay positive, confident, and celebrate every moment of their life without losing their self-identity. Finally, the speaker requested the students to do meditation and yoga regularly to develop a sound mind and body for a happy and successful life. Later, Dr. P.V.Mohanram, Secretary, PSG iTech, and Ar. K Venkatesh Kumar, Principal, PSG IAP offered their felicitations. Finally, Dr. P Vetrivelan, Head, Dept. of ECE, proposed the vote of thanks. Students, members of faculty, and staff participated in the event. The celebration included cultural events by students from Music and Dance Clubs, tree plantation by the ECO-Club, and special Patti Mandram by the Tamil Mandram.



**Wing Commander R Selvaraj, Dr. G. Chandramohan, Principal, Dr. A. Kumaravel, Eco-Club Coordinator, planting saplings at PSG iTech ground**

### **Awareness Programme on “இணைவோம் இதயம் காப்போம்”**

The Staff club of PSG iTech organized the Awareness Programme on “இணைவோம் இதயம் காப்போம்” on 27<sup>th</sup> January 2022. Dr. G. Chandramohan, Principal, welcomed the gathering. The chief guest Dr.G.Rajendran, Professor & Head, Department of Cardiology, PSGIMSR delivered the lecture on causes of heart diseases and its symptoms and remedial measures. He explained about the pearl clinic practices in detail and its benefits. The guest of honour was Dr.V.Ramamoorthy, Professor & Head, Dept of Medicine and Rehabilitation, PSG College of Physiotherapy. He shared the importance of physical activities, yoga and exercises and its differences. Mementos were presented to the Chief guest and Guest of Honour. Dr PV Mohanram, Secretary, delivered the felicitation address. Finally Dr.G.Santhanamari, Associate Professor, Dept of Electronics and Communication Engineering proposed the vote of thanks.





**Dr M I Abdul Aleem, HoD (Civil) presenting a memento to the Guest of Honour Dr.V.Ramamoorthy, Professor & Head, Dept of Medicine and Rehabilitation, PSG College of Physiotherapy during an awareness programme held on 27<sup>th</sup> Jan 2022**

### **Third Graduation Day Ceremony**

PSG iTech celebrated the Third Graduation Day Ceremony on 12<sup>th</sup> February 2022 at PSG Convention Center. Shri.L.Gopalakrishnan, Managing Trustee, PSG & Sons' Charities, welcomed the gathering and highlighted the significant achievements made by students and faculty. He stated that PSG iTech serves as an instrument of transformation for the region and nation. While talking about the achievements, he mentioned that students of PSG iTech have been consistently securing top places in the Anna University exams and congratulated all the thirteen university rank holders, best-outgoing students, and all the 262 graduates of the 2016-20 batch.

Further, he mentioned that 95% of the students got placed in reputed companies and they were given good feedback by the employers in the workplace. During his talk, he congratulated all the administrators, faculty, and students for securing 131<sup>st</sup> rank in the NIRF and being accredited by the NBA for all five programs.

Further, various awareness programs and vaccination camps organized during the pandemic period were appreciated. He appealed to all the graduates to recommit to their passion and values. He requested the graduates to work hard and contribute to society. Finally, he administered the graduation day pledge.

Shri Sanjeev Kumar Varshney, Adviser and Head, Department of Science and Technology, Govt. of India, participated as the chief guest and distributed the awards for the best-outgoing students Ms Mega Ravi of Computer science engineering and Mr Uma Sundhar of Mechanical engineering and degrees to the graduands.

In his commencement address, he congratulated all the graduates for their efforts and parents and teachers for rendering their continuous support to the students in all aspects. While talking about the roles and responsibilities of an engineer in these highly challenging times, he underscored the key skills required to be a successful engineer like passion for work, optimism, hope, and a never-give-up attitude. It was stated that India is a land of opportunities, where the role of engineers is crucial for the development of the nation. He appealed to all the graduates to look for opportunities available in every field and contribute their knowledge and skill for making not only the industry but the country proud in the global market.

Further, he urged the young graduates to dream big and have the self-belief to achieve excellence in their desired field. Especially, he requested the graduates not only to be a part of the generation of new knowledge but work for protecting the Intellectual properties. Finally, he advised all the engineers to work till their last breath for the country with high hopes. Later, alumni interaction was organized to create space for interaction between the first-year students and the graduates. As part of the graduation day, alumni meeting was also organized in the evening with musical performance by the music club.



**Third Graduation Day ceremony held on 12<sup>th</sup> Feb 2022**

### **Third Alumni Meet**

The Third Alumni Meet of PSG iTech Alumni Association, Neelambur was held on 12<sup>th</sup> February 2022. Around 230 alumni from 2014-18, 2015-19, 2016-20 and 2017-21 batches and their parents attended this meet. The Chief Guest for the evening was Mr. Krishna Samraj, Managing Director, Magna Electro Casting Limited, Coimbatore. Heads of Departments and faculty members were also present on the occasion.



**Third Alumni meet held on 12<sup>th</sup> Feb 2022**

Principal Dr. Chandramohan G welcomed the gathering. He mentioned that while first batch of students joined in PSG iTech, the management was keen in providing quality education to the students. The importance was given to academics and the pass percentage of the first batch of students was 98.3%. It was stated PSG iTech encourages students to participate in extra-curricular activities through various clubs and creates a platform for the industry-institute interaction that gives exposure to the student to upgrade their knowledge and skills which will help them excel in their life.

Managing Trustee Shri L Gopala Krishnan delivered the presidential address. He spoke about the services rendered by the PSG and Sons' Charities for the welfare of society. He mentioned that PSG and Sons' Charities Manavar Illam have adopted 180 children, those who have a single parent or no parents, irrespective of caste, creed, religion, etc. and those who hail from economically weaker sections of the society to provide succor. PSG Hospitals inaugurated 'Santham' in October 2021, 40-bedded palliative care and hospice unit. PSG Vishnugranthi, another initiative by the PSG and Sons' Charities, provides education to children with special needs. It will also address their health, education, and skill needs to help them lead a quality life. He mentioned that Alumni are the brand ambassadors of the institution. He highlighted the strength of the PSG Alumni Network with 1, 50,000 Alumni, and most of them are working in a reputed industry at the top-level management or doing their higher studies in renowned universities abroad.

Also, he stated that PSG iTech is always at top in Anna University Ranking among 526 colleges in Tamilnadu. He shared that 2017-21 batch students have secured 25 university ranks. He appreciated the alumni for setting up a benchmark for all the juniors. He expressed that PSG management is always humble and grateful for the love and devotion that loyal alumnae have for their alma mater.

Chief Guest Mr. N Krishna Samraj shared the importance of the alumni-institution relationship. He appreciated that PSG iTech is good in technical education, and mentioned that present alumni are the torch bearers of the institution. He requested the office bearers of PSG iTech Alumni Association to establish strong alumni connect through the advanced software and multimedia tools to support the growth of the parent institution. He also mentioned that the IT industry required a lot of training in the areas such as technical knowledge, communication skills, supervision, and financial management, etc. He insisted the alumni to offer courses related to the aforesaid key areas for the benefit of students and fellow alumni. He wished all the alumni to keep the legacy of PSG through alumni activities.

Secretary, Dr. Mohanram P V delivered the felicitation address. He thanked the Managing Trustee and PSG & Sons 'Charities for their noble service to the society through various initiatives such as Manavar Illam, Santham and Vishnugranthi etc. He also agreed to implement the special courses suggested by the Chief Guest for the benefit of the students and alumni through alumni association. He placed a record on the achievement made by PSG iTech alumni for their financial support to the juniors and also for their contribution to the institution in technical and placement activities. He requested alumni to build an industry-institute interaction cell that makes PSG iTech as a globally recognized institution.

Mr. K. Hariharan, Vice-President, PSG iTech- Alumni Association, presented the future plans of the alumni association. He mentioned that the alumni chapters will be inaugurated in Chennai and Bengaluru, and coordinators will be appointed for the effective coordination of alumni activities under each chapter. He also expressed that the webpage and login have been created to bring all alumni under a single platform for effective interaction. It is also planned to provide an option in the web login for the juniors and fellow alumni to have a one-to-one interaction.

He stated that the connections between Alumni and juniors will be established through "Alumni Talks" via College Clubs. He thanked all the alumni for their previous scholarship contribution of Rs. 4.2 Lakhs, and mentioned that many of the alumni have conveyed their willingness to contribute more in the next academic year. It is also decided to contribute Rs. 10 Lakhs as scholarship for the benefit of needy students. He mentioned that the Alumni Association decided to give Alumni Awards for their outstanding contribution towards their scholarships, placement and achievements in their profession career etc. He thanked PSG Management for providing the facility and support of organizing these events to help and interact with the alumni, students and faculty.

The 2016-20 Batch students and project supervisors have received the best project award certificates and prize from the dignitaries. PSG iTech alumni (2014-18 and 2015-19 batches) handed over the scholarship money of Rs. 85,000/- (Rupees Eighty five thousand only) to the Principal.



**Best Final year project awards have been handed over by the Chief Guest and Managing Trustee to the top two project teams in each branch of 2016-20 Batch.**

Mr. Navaneetha Krishnan S U, President, PSG iTech- Alumni Association thanked the Guests and Managing Trustee for their continuous support and encouragement. He thanked the Principal Dr. Chandramohan and Secretary Dr. P V Mohanram for their guidance and support. He also thanked the Alumni association faculty coordinator Dr. M Sathiyathan for his motivation and giving full freedom to conduct alumni events in grand manner.

He thanked the alumni who contributed for student scholarship. He thanked Vice-President Mr. Hariharan and other office bearers for the support and coordination. He also thanked the PSG iTech students union headed by Mr. Akash and members of estate office for their help and coordination in successful conduct of second alumni meet. He thanked the iTech music band guided by Ms. Lakshmi Kalpana Roy, Assistant Professor, CSE and Mr. Mahesh, Incharge- PSG hostel mess and supporting staffs for their refreshment and dinner arrangement. He also thanked the excellent contribution made by Mr. Rathan Aswath and Ms. Shruthi for MOC.

He thanked all the alumni, parents, faculty and staff members who are present for the event and making the event a grand success. The gathering relished a musical treat given by iTech music band at PSG Convention Centre. The Principal and secretary presented the gifts to the members of iTech music band for their outstanding performance. The guests, alumnus, parents and faculties had enjoyed their dinner at food court.

**Faculty Awards (July – December 2021)**

In order to recognize the research contributions and achievements made by faculty from 1<sup>st</sup> July 2021 to 31<sup>st</sup> December 2021, Faculty Awards Function was held on 16<sup>th</sup> February 2022.

Members of Faculty have been awarded as per the norms established in approval with management for each category of awards. The management was gracious enough to sanction Rs.1,38,721/- (One Lakh Thirty-Eight Thousand Seven hundred and Twenty One Only) for the same. The function was presided over by Dr J S Bhuvaneshwaran, M.D, D.M (Cardio), Director, PSG Super Specialty Hospital, Coimbatore. As shown in the table below, around 47 faculty members were recognized for their accomplishments.

<b>No of Faculty Receiving Awards - 47</b>			
<b>S.No</b>	<b>Category of Awards</b>	<b>Sub-Category</b>	<b>Count</b>
1.	Patents	iTech Granted	1
		iTech Published	2
		Non-iTech Published	4
2.	Int. Journal Papers / Book / Book chapter Published	WoS & Scopus	35
		Book	1
		Book Chapter	5
3.	Online Courses Completed	NPTEL	10
4.	Conferences Organized	National	1 (CSE)
		International	1 (Mechanical)
5.	FDPs/PMKVY/Workshops Conducted for Faculty & Staff	-	3
6.	Value Added Courses/Workshops conducted for Students (Coordinators)	-	4
7.	PhDs	Faculty Awarded	4
		No of Students Guided	-
8.	Research Projects (DST, DRDO, TARE etc)	Sanctioned >10 L	4
		< 10 L	-
		< 1 L	-





**Ms.D.Archana, Assistant Professor, Dept. of ECE, receiving the honorarium from the chief guest Dr. J.S.Bhuvaneshwaran, Director, PSG Super Speciality Hospital, Coimbatore, Principal Dr. G Chandramohan, and Secretary Dr. PV Mohanram during the Faculty Awards Function held on 16<sup>th</sup> Feb 2022**

### **Webinar on IEEE Xplore Digital Library**

was jointly organized by Central Library and IEEE Students branch, PSG iTech, on 28<sup>th</sup> February, 2022. During the inaugural session, Dr.V.Krishnamurthy, Librarian, introduced the resource person Mr.Nanda Lal TS, Senior Training Manager - South India EBSCO Information Services & IEEE Xplore Digital Library. Around 16 participants actively taken part and they were interactive throughout the session. Mr.Nanda Lal TS, Senior Training Manager - South India EBSCO Information Services & IEEE Xplore Digital Library, gave a detailed view on IEEE Xplore Digital Library.

**The Value of IEEE Research and Career Development**



**Nanda Lal T.S.**  
(BBA, MLISc, UGC NET & JRF)  
Senior Training Manager  
EBSCO Information Services &  
IEEE Xplore Digital Library

**EBSCO**

**About IEEE Xplore Digital Library**

**What we do**  
We publish the **top-cited science and technology research** in the field, most notably our journals, conferences, and standards.

**Who we serve**  
We serve professionals and students involved in **all aspects of the electrical, electronic, and computing fields and all related areas of science and technology** that underlie modern civilization.

**What sectors we serve**  
Our publications are sold to **academic, corporate, and government** organizations around the world via our online database: the IEEE Xplore digital library.

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Access to IEEE research helps students, faculty, scientists, and engineers **save time and money by accelerating R&D efforts**, and getting research and products to market faster.

**IEEE**

**Webinar on IEEE Xplore Digital Library held on 28<sup>th</sup> Feb 22**

### **Online Webinar on “Academic Identity and Faculty Profile: An Overview”**

An Online Webinar on “Academic Identity and Faculty Profile: An Overview” was jointly organized by Central Library and Institutions Innovation Council, PSG iTech on 01<sup>st</sup> March 2022. The webinar was inaugurated by our beloved Principal, Dr.G.Chandramohan. Dr.R.Ramesh, IQAC Director, briefed about the IRINS and VIDWAN ID. Dr.V.Krishnamurthy, Librarian, introduced the resource person Dr.P.Kannan, Scientist – E, INFLIBNET, Gandhi Nagar, Gujarat. The session started at 12.00 noon on 01<sup>st</sup> March, 2022. During the session, 54 participants participated and the session was interactive. During the questionnaire session, Dr.Manimegalai, HoD/CSE, Dr.R.Ramesh, IQAC-Director and Dr.V.Krishnamurthy, Librarian, raised some questions with regard to the topic. The resource person clarified their questions with real examples. Finally, Dr.P.Manojkumar, Associate Professor and coordinator of Institutions Innovation Council, proposed the vote of thanks.



**Online Webinar on Academic Identity and Faculty Profile: An Overview held on 1<sup>st</sup> Mar 22**

### **Celebration of Dr.G.R.Damodaran Birthday**

The Staff club and Tamil Mandram, of PSG iTech organized the celebration of Dr.G.R.Damodaran birthday on 22<sup>nd</sup> March 2022. Mr.M.Jothibas, Staff Club Coordinator, welcomed the gathering. Dr. G. Chandramohan, Principal, delivered the presidential address. He stated the good practices of Dr.G.R.Damodaran such as punctuality, dedication towards teaching and research. In the felicitation address, Dr P V Mohanram, Secretary, shared his memories with Dr.G.R.Damodaran and also shared his interest towards sports and other administrative activities. In lieu of the celebration, a Tamil Patti Mandram on the topic “மனிதனின் முன்னேற்றத்திற்குப் பெரிதும் துணை நிற்பது உறவுகளே!, நடப்புகளே!” has been organized, the faculty and staff members were enthusiastically participated in it. Mementos were distributed to all the participants of Patti Mandram. Finally, Ms.N.Vasanthi, Staff Club Coordinator, proposed the vote of thanks.

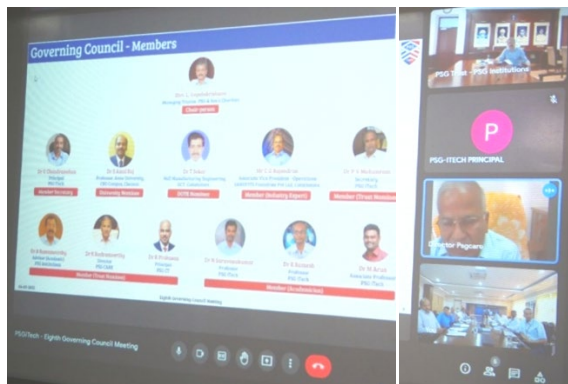


**Celebration of Dr.G.R.Damodaran birthday on 22.02.2022**

### **The Eighth Governing Council Meeting**

The Eighth Governing Council Meeting was held on 04<sup>th</sup> March 2022 at Board room from 9.30 am to 12.30 pm both in-person as well as online mode using Google Meet platform. The following data pertaining to the academic year 2021-2022 were presented and approval was sought from the members.

- Action Taken Report on academic and other activities of the 7<sup>th</sup> GC meeting
- Faculty Accomplishments
- Summary of University Results
- Students' Achievements
- Placement Statistics & Training
- Accreditation/Ranking Status
- Improvement plan based on NBA team visit
- New Programmes Planned
- Students Feedback on General Facilities
- Budget for the year 2022 - 23
- Any other matter



**Members at online during Eighth Governing Council Meeting was held on 04<sup>th</sup> March 2022**



**Members at board room of PSGiTech during Eighth Governing Council Meeting was held on 04<sup>th</sup> March 2022**

### **National Science Day-2022**

The Science and Humanities Association along with the Astronomy club organized an event for National Science Day 2022 with the theme “Integrated Approach in Science and Technology for sustainable future” on 07.03.2022. The chief guest was Dr. Ravindra Naik, Principal Scientist, Central Institute of Agricultural Engineering, Coimbatore. Seventy eight students and 15 faculty members were present.



**A talk given by Ms Dharsana of 1<sup>st</sup> year EEE about National Science Day**

#### **Fourth International Conference on Sustainable Practices and Advancements in Civil Engineering (SPACE'22)**

The Dept. of Civil Engineering (PSG iTech), in association with Deakin University, Australia, the Indian Society for Technical Education (ISTE), and the American Concrete Institute, organized the Fourth International Conference on Sustainable Practices and Advancements in Civil Engineering (SPACE'22) during 11<sup>th</sup> and 12<sup>th</sup> March 2022. Dr V Saraswathy, Chief Scientist and Head, Corrosion and Materials Protection Division, CSIR –CERCI, Karaikudi participated as the chief guest and delivered the inaugural address. Dr M I Abdul Aleem, Professor and Head, Department of Civil engineering, PSGiTech welcomed the gathering.

Dr R Rajkumar, Asst. Professor, Dept. of Civil Engineering, elaborated the conference theme and shared the unique features of the conference. It was stated that the two-day international conference will feature six keynote speakers from different parts of the world and eleven technical sessions on various interesting topics. Around 84 research papers were presented after a careful scrutiny of 124 papers received from various Colleges and Universities across the world.

Dr G Chandramohan, Principal, delivered the presidential address. In his presidential address, he appreciated all the members of the faculty for organizing a need-based conference in a professional manner. Dr PV Mohanram, Secretary, spoke about the significant role played by sustainability in the Civil Engineering.

Dr V Saraswathy, in her address, emphasized the importance of sustainability aspects and advanced materials used in the construction of infrastructure in recent days. Further, she appealed to civil engineers to learn from the traditional structures which are very good examples of sustainable structures. She also released the proceedings of the conference (SPACE'22).

Finally, Mr.V.Navinganesh, Assistant Professor, Dept. of Civil Engineering, proposed the vote of thanks. Dr. R. Rajkumar, Mr. V Navin Ganesh, Mr K Sakthi Prasanth, Asst. Professors, Dept. of Civil Engineering, were the organizing secretaries of the conference. Members of Faculty in the Dept. of Civil successfully co-ordinated the event.





**Release of SPACE'22 Conference Proceedings**

### **“ICMDMSE 2022 Conference”**

ICMDMSE 2022 Conference was held on 11<sup>th</sup> and 12<sup>th</sup> March 2022. Dr.G.Chandramohan, Principal, PSG iTech welcomed the gathering and Dr.P.VMohanram, Secretary, offered the felicitation address. Dr.R.Ramesh, Professor of Mechanical Engineering, explained the significance of the theme “Digital Solutions for Sustainable Earth”. Also, he spoke about the necessity of the conference with relevance to the contemporary issues and shared activities schedule. Dr.Krishnakanth Pulicherla, Scientist D, Technology Development & Transfer Division (TDT), Department of Science and Technology, Govt. of India served as the chief guest for the function. He highlighted the importance of taking up R&D jobs in collaboration with industries instead of service-oriented jobs. He also emphasized the importance of industry supported higher studies and the student participation in the same. Finally, Dr.D.Elangovan, Professor of Mechanical Engineering, proposed the vote of thanks.

Total number of papers received: 90

Total number of papers accepted for Conference: 65

Total number of papers presented: 62

Total number of keynote address: 5

Total number of participants: 210

### **Paper presentation tracks**

1. Track 1- Materials for Sustainability
2. Track 2 - Design of Materials for Sustainability
3. Track 3- Manufacturing and Industrial Engineering
4. Track 4 - Thermal and Fluid Sciences for Sustainability





**Release of ICMDMSE 2022 Conference Souvenir by Dr.Krishnakanth Pulicherla, Scientist D, Technology Development & Transfer Division (TDT), Department of Science and Technology, Govt. of India along with Dr P V Mohanram, secretary, PSG iTech, Dr G Chandramohan, Principal, PSG iTech and Mechanical department faculty members**

### **International Women's Day Celebrations**

PSG Institute of Technology and Applied Research (PSG iTech), in association with the Women Empowerment Cell (WEC), organized a special lecture on the occasion of International Women's Day on 8.3.2022 (Tuesday). Dr. R.Manimegalai, Professor and Head, Dept. of CSE and Chairperson of the Women Empowerment Cell, welcomed the gathering. Mrs. Hemalatha Annamalai, Former Global Chair, TiE Women, Founder and Former CEO, Ampere Vehicles, President and Patron of Society for Smart E-mobility addressed the audience on her successful entrepreneurship journey, the various challenges encountered and the ways to handle challenging situations.



**Dr.G.Chandramohan, Principal, welcomed the Chief Guest Mrs. Hemalatha Annamalai, Former Global Chair, TiE Women, Founder and Former CEO, Ampere Vehicles, President and Patron of Society for Smart E-mobility during the International Women's Day celebrations held on 8.3.2022**

Dr. G.Chandramohan, Principal, delivered the presidential address and stated with pride the achievements of girl students and women faculty members at PSGiTech. Also, the commendable activities carried out by the women empowerment cell was appreciated and they were encouraged to do more activities in the future. Also, Dr.G.Chandramohan highlighted the crucial role played by women at home and office. Also, he emotionally recalled the sacrifices made by women and their selfless contributions. Later, Dr.G.Santhanamari, Member, WEC, introduced the chief guest to the audience. Mrs. Hemalatha Annamalai, in her insightful presentation, expressed that the most important attributes in business are swiftness and technical competency rather than the size. The four major points for making the most of ourselves are giving paramount importance to health and inner well-being, spending quality time with the family, working until last minute and taking up social responsibility.



**Student receiving the book written by Mrs. Hemalatha Annamalai and Dr. M.Devasena, Co-Chairperson of Women Empowerment Cell are in the photo during the International Women's Day celebrations held on 8.3.2022.**

Further, the key takeaways from her talk were “Small beginning, Incremental improvement, Sustained progress and Monumental possibilities are the eight words that will lead to success. Mrs. Hemalatha Annamalai, the former founder of Ampere vehicles, also talked about the hardships and challenges and her experience in breaking the barriers. Prizes were distributed to the winners of various events like cooking, drawing and painting, speech and poetry contest organized in connection with women's day celebration by various clubs. Students delivered brilliant speeches, recited poems and soulful songs praising womanhood. PSGiTech band rendered beautiful medleys. Dr.Kala I, Associate Professor, Dept. of CSE, member of WEC, proposed the vote of thanks.

### **Food Wizard- Women's day competition**

PSG iTech, in association with the Women Empowerment Cell (WEC), Drawing and Cooking club, organized International Women's Day celebration on 8.3.2022. As a part of the celebration, the cooking club conducted a cooking (team) competition called "Payback time- Mom's or Sister's favorite dishes" on 07.03.2022. The participants were encouraged to prepare healthy dishes by using the ingredients like Sprouts, Groundnut, and fruits. Three teams of staff and students were selected for prizes based on comments given by the judges. Prize winners were awarded cash prizes during the Women's Day celebration on 8.3.2022 (Tuesday) by the Chief Guest Smt. Hemalatha Annamalai, Former Global Chair, TiE Women, Founder and Former CEO, Ampere Vehicles, President and Patron of Society for Smart E-mobility.



**Ms K Jothimani, Technical Assistant and Ms V Sumathi, Junior Assistant, Library presented Roasted Gram & Pohaaladdu and Allo Vera sarpath and won first prize**

### **Visit of Dr. V Chandrasekar**

Dr.V.Chandrasekar, Professor of Electrical and Computer Engineering, Colarado State University (CSU) visited PSG iTech on 7<sup>th</sup> March, 2022. Dr. G Chandramohan, Principal, Dr. R Ramesh, Prof (Mech) and Dr. C L Vasu, HoD (EEE) had a fruitful discussion with Dr.Chandrasekar regarding the master's program at CSU. Dr.Chandrasekar told that the Anna University rank holders from PSG iTech, who would like to do their masters at CSU, could be given a complete fee waiver and also scholarship. Principal Dr. G Chandramohan advised Dr. Manoj Kumar P, Associate Professor, Mechanical Engg. to be in touch with Dr. Chandrasekar and to identify the rank holders who are interested in pursuing their masters at CSU.



**Visit of Dr. V Chandrasekar, CSU to PSG iTech on 7<sup>th</sup> March 2022**

### **Best Spoke College Award**

PSG Institute of Technology and Applied Research has been awarded as Best Spoke Institution for IEDP promotional activities under PMO-IEDP scheme by Entrepreneurship Development and Innovation Institute of Tamilnadu Government (EDII) and ED Cell of Anna University regional centre. Cash prize of Rs.10,000 has been given to us. This amount can be utilized for conducting Entrepreneurship development programs in our campus. Principal Dr.G.Chandramohan and EDC Cell coordinator Mr.S.Elayaraja have received the cash prize and certificate from the Honorable Vice Chancellor of Anna University Dr.R.Velraj on 11.03.2022 at AURCC campus near Vadavalli.



**Dr G Chandramohan, Principal, PSGiTech and Mr Elayaraja, AP, Civil Engg received a Best Spoke Institution Award for IEDP promotional activities for PSGiTech on 11<sup>th</sup> March 2022 from Honorable Vice Chancellor of Anna University Dr.R.Velraj**



### **Program on “Holistic Wellness Journey”**

PSG iTech in association with the Women Empowerment Cell (WEC) and Staff club, organized an activity-based one-day workshop on “Holistic Wellness Journey” for all faculty and staff members on 12.03.2022 (Saturday). Around 35 faculty and staff members from various departments participated in the workshop. Dr. G. Chandramohan, Principal welcomed the gathering and introduced the resource person, Mr Saravana Prabhu, Software Quality Specialist, D.E. Shaw & Trainer-Art of Living Foundation. While felicitating the speaker, Principal appreciated the services being rendered by Mr. Saravana Prabhu for physical and mental wellbeing of people, guiding to attain happiness. He also explained the importance of happiness to do better always in life. Mr. Saravana Prabhu started the session by sharing his experience as a student at PSG College of Technology, Coimbatore. He briefed the activities planned for the session.



**Participants involved in games and objects-based activities**

Later, participants shared their feedback about their learnings and fun-filled experiences. Finally, Dr. E. Malar, Associate Professor, Dept. of EEE, offered her feedback and stated that the session evoked nostalgia of her childhood days.



**Participants involved in meditation**

## **Advaya – 2022**

PSG Institute of Technology and Applied Research celebrated the annual cultural festival Advaya–2022 on 19<sup>th</sup> March 2022, Saturday at the iTech Kalaiarangam. Dr.G.Chandramohan, Principal, delivered the welcome address and spoke about the importance of honing skills beyond academics and shared that organizing such events help students learn the art of managerial skills, leadership skills, negotiation skills, and various other skills required to sustain in the workplace. Further, he stressed that students should actively take part in all activities and explore multifarious opportunities provided by the college to identify their unique talents. Also, he appealed to all the students to enjoy their day.

In his felicitation address, Dr. P V Mohanram, Secretary, appreciated the members of the Students' Union for organizing the event successfully amidst various struggles and explained the significance of the Advaya, which means oneness. He stated that the ideation behind Advaya is to bring all the students together, celebrate their unique skills and capabilities. Importantly, he pointed out that organizing such events will help to break the differences amongst students and work dedicatedly towards the mission. Also, he explained the importance of yoga and meditation for harmonious living. Finally, he urged the students to exchange love and share good thoughts for a peaceful life.

Later, the event kick-started with a beautiful welcome dance performance followed by *Pattimandram* judged by Mr.Venkatesh, Asst. Professor, on 90's Kids vs 2k kids. The speakers on both teams came up with excellent points in support of their teams. Then, the prizes were distributed to all the winners and certificates of appreciation to all the participants and event coordinators of the club. Various events were organized over the span of a week by different clubs to bring out the hidden talents of the students.

Further, the National Service Scheme (NSS) and Youth Red Cross (YRC) club members came up with a creative skit each and demonstrated their performative skills on stage. The skit performed by the members of YRC focused on 'Mental Health of Students' and the NSS with their fun-filled concept on the 'Butterfly Effect'. The post-lunch session commenced with the spontaneous 'Adapt Tunes' contest followed by a dazzling musical performance by the iTech band. Apart from these, various stunning dance performances by members of alumni, girls, and boys decorated the stage in the evening. Students powered their performances with full energy and cheers. Finally, Mr. B.Aakash, Chairman, Students' Union, proposed the vote of thanks.





From the right-side: Dr. P Vetrivelan, Dean, Students' Union, and Head, Dept. of ECE, Dr.V.Jayabalan, Former COE, Anna University and Dr.G.Chandramohan, Principal, distributing certificates for the participants during Advaya-2022 held on 19.3.22 (Saturday) at PSG iTech



Students performance during Cultural Fest - Advaya 2022

### Sankatahara Chathurthi Celebrations

Sankatahara Chathurthi was celebrated in the Vidhya Ganapathi temple on 21<sup>st</sup> March 2022 in the presence of Dr. G. Chandramohan, Principal. First, Second, Third-year Students, Faculty Members from Staff quarters with their family members, and Club Coordinators participated in the special pooja. On behalf of the Drawing and Painting Club, Ms. Bhuvaneswari (II B.E. ECE) and her team made a beautiful kolam at the entrance of the temple. Ms Lakshmipriya, Ms Preethi (II EEE) and their team performed special Bajans and Ms Chandrika (II EEE) and team from cooking club prepared and served Tamarind rice for the devotees.



Kolam made at temple entrance by Ms Bhuvaneswari (II ECE) and team



"Tamarind Rice" was prepared by Ms Chandrika (II EEE) and team

## **iTech Expo 2022**

PSG iTech, Coimbatore, hosted iTech Expo for school students and the public during 26<sup>th</sup> and 27<sup>th</sup> March 2022 at PSG iTech campus. The ideation behind the event was to provide visitors with valuable insights about various programs, scopes, college life, and campus ecosystem. It provided a platform for the school students to interact with members of faculty and college students about their projects and infrastructure. The chief guest of the function was Dr.G.S.Sameeran I.A.S, District Collector, Coimbatore District. During the expo, events like treasure hunt, quiz competition, management games, project displays, and interactive seminars were organised for the school students.

Totally 3500 students from various schools in and around Coimbatore registered for the expo and 3000 students along with parents and teachers visited the campus. As part of “Coffee with collector” event, Dr.G.S.Sameeran I.A.S interacted with the students from Government School, Anamalai Block. In his interaction, he insisted them to work hard and focus on achieving their goals in life.

Dr. G Chandramohan, Principal, PSGiTech, Dr. P V Mohanram, Secretary, and all Heads of the Departments were present during the event. The school students visited around 31 venues (labs) which include centres of excellence in all departments. The interactive seminars were engaged by the Principal, Secretary, Heads of the Departments, and iTech alumni on the following topics: Best Practices at iTech, Materials in Everyday Life, Why Engineering?, Recent Trends in Communication Engineering, Potentials in Civil Engineering, Technological Trends in Electrical Engineering, Computer Science Pioneers, Virtual tour of BMW Factory, Role of Architect in Society and Expectations of Industries.



**Dr.G.S.Sameeran I.A.S (Chief Guest) inaugurated the PSG iTech Expo-2022 on 26<sup>th</sup> Mar 22**



**Group photo taken during iTech Expo 2022**

### **Indiaskills 2021 competition**

Ms. A. Susmeta, III B.E.CSE of PSG iTech, Coimbatore, Tamil Nadu, participated and secured the 4<sup>th</sup> place under the Mobile Applications Development category in the Indiaskills competition, organised by the National Skill Development Corporation (NSDC), held from 6<sup>th</sup> to 10<sup>th</sup> January 2022. Notably, Ms. A. Susmeta was the only woman contestant among the top 10 finalists and received the Medallion of Excellence Award among participants from various states and union territories. The inter-college and district-level of the Indiaskills competitions were conducted through online MCQ rounds and questions were asked from Java and other programming languages. In the regional-level, she designed and developed a snake game application and traveller's guide application.



**Ms. A Susmeta, III year BE(CSE),  
PSG Institute of Technology and Applied  
Research, Coimbatore, Tamil Nadu**



**Ms. A Susmeta, III BE(CSE) PSGiTech felicitated  
by Dr. G. Chandramohan, Principal, PSG iTech  
and Dr R Manimegalai, Head, Department of  
CSE, PSG iTech**