



PALS – 2022-23

PALS - Activities held in the month of August and September 2022

Activity -1

IIT PALS STUDY CIRCLE FOR GATE / JAM - LAUNCH EVENT - August 12th 10.30AM - 12.30 PM - HYBRID EVENT

Launch of the **IIT PALS STUDY CIRCLE** for **GATE/JAM** in your institution for the academic year 2022-23.

The Grand launch for the same happened in a hybrid mode (Physical @IITM and live streamed) on **August 12, 2022, 10.30 AM to 12.30 PM**. By synergizing with like minded resources at IITM, we want to improve the quality of students who want to pursue their Masters' Degree in their area of interest in premier institutions of our country. We believe that bringing an awareness of the GATE/JAM enrolment process and systematic mentoring will empower the students and enhance their preparedness to get good scores.

By enrolment into the IIT PALS STUDY CIRCLE (IPSC), registering for the GATE/JAM exams before September 15, 2022, you will be taking the first step in that direction.

This IPSC is open to all the PALS partner institutes for the academic year 2022-23. While the Grand launch is open to all, the Pilot IPSC program will be for the PALS Partner Institutes.

Outcome:

1. GATE/JAM Possibilities
2. About 100 students from each PI enrolled in the IPSC program
3. To enable faculty /aspirants to the competitive exam while learning their subjects
- 4, IPSC enrolled students will be well prepared through periodic reviews and interventions.

Event Venue – Physical @ IITM

Central Lecture Theatre

IIT Madras, Chennai,

Tamil Nadu-600036



and

Cordially invite you for the

IITM PALS GATE - JAM STUDY CIRCLE

*Launch on Friday, 12th August 2022
at 10.30 AM*

**Keynote and Launch by
Prof. Kamakoti Veezhinathan
Director, IIT Madras**

Speakers

Prof. Prathap Haridoss
DEAN ACADEMIC COURSES,
IIT MADRAS,
on **Opportunities for Augmenting
your Studies, The IITM Advantage**

Prof. Shiva Nagendra, SM
Chairman,
M.Tech. Admissions,
Committee 2023
on **GATE - JAM Enrolment**

and

Dr. Ramkrishna Pasumarthy,
GATE PREP PORTAL

Event Venue

Central Lecture Theatre
IIT Madras, Chennai,
Tamil Nadu-600036

Scan here for web streaming link



RSVP / Contact: palspgm@gmail.com | **Mob:** +91 98405 50470 |
Website: <http://www.palspgm.com> | **Address:** IIT Madras Alumni
Association Office, CCW building, IIT M Campus, Chennai – 600 036

PROGRAMME

| | |
|---------------|--|
| 09.30 – 10.15 | Networking and Registration |
| 10.15 – 10.30 | Assemble in the Auditorium |
| 10.30 – 10.32 | Dignitaries: Prof. V.Kamakoti, Prof. Prathap Haridoss, Prof. Rayala Suresh Kumar, Prof.Shiva Nagendra SM, Dr.RamKrishna, Mr.PV Mohan |
| 10.32 – 10.35 | Welcome - Prof. Rayala Suresh Kumar, Chairman GATE-JAM 2023 |
| 10.35 – 10.40 | About PALS – Mr. P V Mohan, Chairman, PALS |
| 10.40 – 10.50 | Key- note Speaker - Prof.V.Kamakoti, Director, IITM |
| 10.50 – 11.00 | Opportunities for Augmenting your Studies, The IITM Advantage – Prof. Prathap Haridoss |
| 11.00 –11.15 | GATE – JAM Enrolment 2023 – Prof.Shiva Nagendra SM |
| 11.25 – 12.00 | Interaction |
| 12.00 – 12.15 | GATE PREP PORTAL – Dr.Ramkrishna Pasumarthy |
| 12.15 – 12.20 | Vote of Thanks |
| | <i>Followed by Lunch</i> |

PALS PARTNER INSTITUTES

| | |
|----------------|--|
| CHENNAI | AALIM ALPHA DR MGR EASWARI HITS KCG LICET Rajalakshmi SAIRAM SAVEETHA SRM KTR SRM RMPM SVCE VIT CC |
| KOVAI | DR NGP KKIT KPRIET |
| MADURAI TRICHY | MEPCO MAMCET RAMCO TCE |
| SALEM | KSRCE KSRCT KSRIET VCEW NANDHA SONA VCET |
| Other | Nepal KATMANDU College of Engineering Telangana Sri Vishnu Educational Society |

Supported by

IIT MADRAS
ALUMNI CHARITABLE TRUST

Activity -2

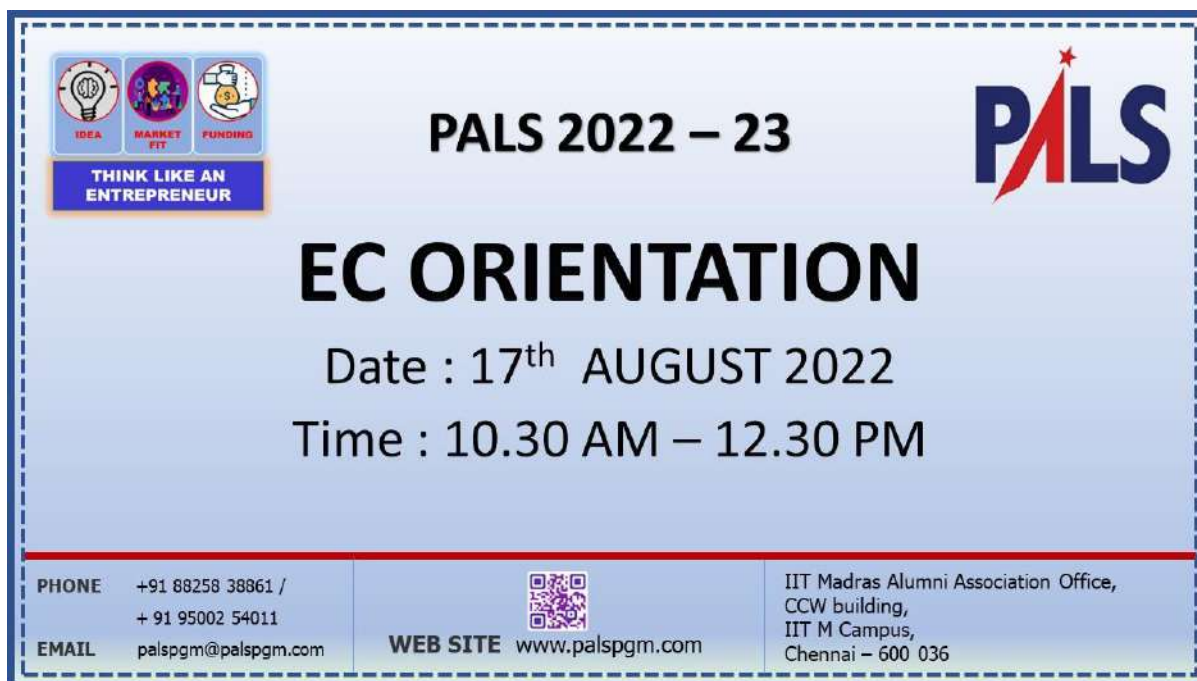
PALS 2022-23 EXECUTIVE COMMITTEE (EC) MEMBER ORIENTATION

Virtual EC Orientation Meet on **17th August between 10.30AM – 12.30PM.**

Invite is open to the key stakeholders from the management, EC members, the InnoWAH Coordinator of the colleges.

Expectations from the Partner Institutes by PALS:

- a. Two Executive Committee members from each Partner college to be identified
- b. One InnoWAH Coordinator for the InnoWAH challenge competition, and one representative from the placement division for the student internship to be identified.
- c. If possible, kindly have your academic calendar handy.



The banner features a blue background with a dashed border. On the left, there are three circular icons labeled 'IDEA', 'MARKET FIT', and 'FUNDING', with a blue box below them that says 'THINK LIKE AN ENTREPRENEUR'. The text 'PALS 2022 – 23' is centered at the top, followed by the 'PALS' logo on the right. The main title 'EC ORIENTATION' is in large, bold letters. Below it, the date 'Date : 17th AUGUST 2022' and time 'Time : 10.30 AM – 12.30 PM' are listed. At the bottom, there is a red horizontal line, and below that, contact information including phone numbers, email, a QR code, website, and the address of the IIT Madras Alumni Association Office.

PALS 2022 – 23

EC ORIENTATION

Date : 17th AUGUST 2022

Time : 10.30 AM – 12.30 PM

PHONE +91 88258 38861 /
+ 91 95002 54011

EMAIL palspgm@palspgm.com

WEB SITE www.palspgm.com

IIT Madras Alumni Association Office,
CCW building,
IIT M Campus,
Chennai – 600 036

Activity -3

NORDEX - CORE INDUSTRY PLACEMENT

PALS is happy to bring on table the first placement offer from a Core industry. This offer is open for only passed out candidates preferably candidates passed out from the batch 2021-22.

About the Industry

Nordex is a group of companies, 35 years young, into design and manufacturing the Wind Turbine generator. Nordex is a European based MNC and headquartered in Germany.

Development, manufacturing, Project Development and maintenance of onshore wind turbines have been the core competence and passion of the Nordex Group and it has more than 8,600 employees worldwide for over 35 years. Since the merger with Acciona Windpower in 2016, Nordex Group is a global player and one of the largest manufacturers of wind turbines in the world.

REQUIREMENTS:

BE / Btech - Mechanical / Electrical / Electronics and Communication / Information technology or Computer science.

ME / Mtech - Mechanical / Electrical / Electronics and Communication / Information technology or Computer science.

Preferable for the candidate to have passed out from 2021-22 batch. Students with other offers or students opting to do higher studies – please do not apply.

Opening is for 10-15 candidates.

CTC to be Offered

BE / Btech – 4.5 Lac / annum

ME / Mtech – 5.5 Lac / annum

Service Agreement for 3 years is mandatory for all university freshers.

INTERVIEW TYPES

- Aptitude Test (Technical and General Topics)
 - Group Discussion
 - Rapid Fire round
 - P&C Discussion

Activity -4

PRE PLACEMENT TALK WITH AHEESA - August 23rd between 2.00pm - 3.00pm

PALS 22-23 Internship opportunities have begun!!

Last year, we had six candidates shortlisted from our PALS Partner Institutes, out of which 4 of them had accepted the opportunity and currently have already been placed in the company. With the success of the last year and the quality of resources, Aheesa has once again come back to PALS for more internship opportunities.

About Aheesa

Aheesa specialize in indigenous designs and their current solutions are primed on Telecom, Networking and Cyber Security, Communication Standards such as 5G, WIFI 6 and IoT protocols, Industrial IoT, ASIC design and fabrication, Hardware refactoring, Application overhauling, Hi speed data acquisition and management, Computing, Storage and Caching technologies. They adapt the latest advancements in technologies to bring the best in class solutions to meet the scale, performance and flexibility requirements. They are one of the very

few hardware and embedded design houses established in India focusing on indigenous designs and committed to the Make in India initiative. To know more, please visit <https://www.aheesa.com/>

They have requirements in VLSI / ASIC, Firmware / Embedded and as a Technical writer / Blog / Meme creator. This is a full time, physical internship starting ASAP. There's also an attractive stipend.

We have scheduled a brief meeting with the management of the company to share more details on the internship opening. This is scheduled on **Tuesday AUGUST 23rd between 2.00pm - 3.00pm**. Since the requirements are little urgent, we have a short notice.

Activity -5

PALS TECHNOLOGY SPEAKS ON 25th August 2022 1.30 PM – 3.30 PM

Topic: Enterprise Digital Twin as a risk free experimentation aid for business and social systems

Speaker : Dr Souvik Barat , Principal Scientist, Tata Consultancy Services Research, India

Brief Introduction of the topic:

Shifting customer purchase and consumption patterns in the face of deep uncertainties have brought a new urgency to create improved products and services to grow and retain customers. Organizations also need to enhance internal process efficiencies, reduce costs and curb revenue leakages. However, taking continuous and dynamic decisions in an ever-changing business environment is a daunting challenge. Historical data-driven models lack the capability to predict deviations and effectiveness of business responses in the face of deep uncertainties and unavailability of prior data.

TCS TwinX leverages cutting-edge research on artificial intelligence (AI) and actor model of computation to help envision, experiment with and execute business decisions through a digital twin-based simulator. The platform creates a virtual and faithful representation of the organization based on key business entities, their interrelationships and the impact of external forces on them including competitor movement, natural calamities and unforeseen global emergencies such as the pandemic. The outcome: An accurate insight into future evolution of enterprise systems based on entities' behavioral changes and their situational responses at the n=1 level. This helps to accurately predict and simulate the future behavior of entities and the system as a whole.

Speaker Profile:



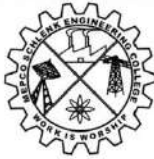
Souvik Barat is a principal scientist at Tata Consultancy Services Research India and visiting researcher at Middlesex University London. He has 24 years of experience in industrial research and his research interests include Digital Twin technology, Modelling and simulation of complex systems,

Reinforcement Learning, Model Driven Engineering, Software Product Lines, and Business Process Management.

He is actively involved in developing digital twins for complex business and societal systems. His work on digital twin for business systems led to best TCS Innovation award in 2019 and contributed towards conceptualization of TCS TwinX product that won Gold Stevie award under AI/ML category in 2021. His effort towards modelling city to systematically return to a new normal without compromising public health safety is extensively used by city-based health care organizations and municipality corporation. As part of visiting researcher, he is contributing towards various social and healthcare related research initiatives at London Digital Twin Research Centre.

Earlier, he was a lead architect of a model driven toolset that has been used for delivering large IT systems over a decade and led a research initiative to develop a platform for product line architecture.

Souvik has several patents to his credit and authored 50+ journal and international conference papers. He holds PhD from Middlesex University London and Master degree from the Indian Institute of Technology (IIT), Madras.

| | | |
|--|--|--|
|  KPR Institute of Engineering and Technology |  |  |
| TECHNOLOGY SPEAKS | | |
| SPEAKER | | |
| Dr Souvik Barat , Principal Scientist, Tata Consultancy Services Research,India | | |
| TOPIC | | |
| ENTERPRISE DIGITAL TWIN AS A RISK FREE EXPERIMENTATION AID FOR BUSINESS AND SOCIAL SYSTEMS | | |
| Date : 25 th AUGUST 2022 Time : 01.30 PM – 03.30 PM VIRTUAL EVENT (Contact Organizer for more details) | | |
| PHONE +91 95002 54011 EMAIL palspgm@gmail.com WEB SITE www.palspgm.com | With the Support from INDUSTRY PARTNERS | IIT Madras Alumni Association Office, CCW building, IIT M Campus, Chennai – 600 036 |

Activity -6

IBM Hack Challenge 2022, - Launched for students

An interesting and exciting Hackathon challenge from IBM.

We have just launched the IBM Hack Challenge 2022, aimed at developing coding and development skills in students.

I would therefore request you to motivate your students for registering and participating in the IBM Hack Challenge 2022, to strengthen their technical learning and problem solving skills. Our goal this year is simple: **Code for a**

Better Future. We want to give students the opportunity to build solutions on new technologies that can help us solve some of the world's biggest problems.

During this year's online Hack Challenge, students will learn multiple new technologies including Artificial Intelligence, RedHat OpenShift, Data Analytics and Cyber Security with Machine learning. They will also have free access to Red Hat CodeReady workspaces and IBM Cloud, as well as no-charge access to IBM SkillsBuild courseware and software. **We will invite the Top teams to present to IBM leadership at Bangalore in an offline event, with grand finale.**

And We'll also have some amazing prizes and certificates, on hand for **Top teams, Top faculty Mentors, Top performing Colleges** at the event hosted in Bangalore in Oct 2022. Request you to forward this to your respective departments/students in the institution, we're looking forward to seeing some amazing projects this year as well!

Activity -7

INTERNSHIP OPPORTUNITY - AHEESA

There are internship openings under three categories as listed below.

Skillset for VLSI/ASIC - 3 - 4 resources

Students must have gone through this curriculum.

- VLSI design
- Digital Electronics including finite automata theory and boolean algebra
- Digital Signal Processing
- Coding and Information Theory
- Microprocessor and Microcontroller.
- Project work or lab encompassing design and/or verification using Verilog and/or VHDL

Skillset for Firmware/Embedded - 2 - 3 resources

Students must have gone through this curriculum.

- Operating Systems (in-depth understanding Linux OS) and Device Drivers
- Microprocessor and Microcontroller.
- Networking - OSI
- Linux Shell scripting
- C Programming
- Project work or lab encompassing Linux kernel porting and driver development for real-time data acquisition from sensors on any embedded board and plotting real-time in graph.

Skillset for Technical Writer/Blog/Meme Creator - 1 - 2 resources

- Multi linguistic and strong fluency in English and Hindi. Additional languages are a plus
- Creative, artist and voracious reader
- Should have published articles, write-ups in school, colleges and/or industry recognized magazines on Science and Technology
- Should be familiar in using tools such as Figma, Visio, office, adobe products and have build artwork/prototypes using the same.
- Copies of articles published and artworks designed using tools or handcrafted should be submitted while sharing the resume.

PLEASE NOTE

Final year Students of any discipline with the skillset as mentioned above can apply.

Internship requirements will start as soon as the shortlisting process is over.

This will be a full time physical internship. But as mentioned in the session, Aheesa will be flexible depending on the need

Interns will be given a nominal stipend during the internship period

As last year, if the interns perform well, they will be given a permanent placement in the company.

ONLY seriously interested students with the matching skill set need to apply

Activity -8

PALS TECHNOLOGY SPEAKS on 30th August 2022 1.30 PM – 3.30 PM

Topic: FUTURE TECHNOLOGIES IN AUTOMOBILES

Speaker: Dr K Subramaniam, Senior Vice President, Product Development, Ashok Leyland Limited, Chennai

Brief Abstract:

The decade we live in is surely a decade of transition for the automotive industry. A lot of major changes will be seen over the next several years. The traditional automotive disciplines are transforming into new areas in power trains, electro-mechanical systems, data analytics, advanced materials and the like. What are some of these new technologies and what are the strategies that industry is adopting to keep up with the pace of change- these topics and more will be covered in this talk.

Speaker Profile:

Dr. K. Subramanian obtained his PhD from Cornell University in Electrical Engineering with specialization in Micro-electro-mechanical Systems or MEMS. He holds a B.Tech in Mechanical Engineering from IIT Madras. He is currently Senior Vice President at Ashok Leyland where he leads Advanced Engineering and several other product development functions. Previously, he was CEO and Executive Director of R&D at Powergear Ltd., MEPZ, Chennai

where he worked on implementing several novel technologies in Energy and other sectors. He previously worked at GE's Global Research Center in New York. Subramaniam has more than 50 issued patents as inventor. He managed a large program on MEMS at GE and received two prestigious awards for his research. One of them, the Hull Award, is presented to early-career researchers at GE Global Research who have contributed significant technical achievements, are a positive influence on fellow technologists, and embrace GE values. The other award, the Whitney technical achievement award is for a project that is viewed as a potential market game changer. Subramaniam is a Six Sigma Black Belt. He has made significant contributions to multiple unique projects and has authored numerous publications and technical reports.

| | | |
|--|---|--|
|  | PALS PALS 2022 – 23 |  |
| TECHNOLOGY SPEAKS | | |
|  | <u>SPEAKER</u> Dr K Subramaniam, Senior Vice President, Product Development, Ashok Leyland Limited, Chennai | |
| | <u>TOPIC</u> FUTURE TECHNOLOGIES IN AUTOMOBILES | |
| Date : 30th AUGUST 2022 Time : 01.30 PM – 03.30 PM VIRTUAL EVENT (Contact Organizer for more details) | | |
| PHONE +91 95002 54011 EMAIL palspgm@gmail.com WEB SITE www.palspgm.com | With the Support from INDUSTRY PARTNERS | IIT Madras Alumni Association Office, CCW building, IIT M Campus, Chennai – 600 036 |

Activity -9

**THEORY TO PRACTICE(T2P) LECTURE - ON SEPTEMBER 1st, 2022,
10.30 AM TO 12.30 PM**

Topic

GROUNDWATER CONTAMINATION AND REMEDIATION by Prof. Indumathi M Nambi, Professor, Dept of Civil Engineering & a Research Scholar.





Profile of the Speakers

Dr Indumathi M Nambi is Professor at the Environment and Water Resources Division, Department of Civil Engineering, IIT Madras, Chennai. She has received her doctorate in Civil and Environmental Engineering from Clarkson University, Potsdam, NY and has served as a postdoctoral fellow at University of Illinois at Urbana Champaign in the U.S.A. Dr. Indumathi's research cores

areas are Contaminant fate and transport in groundwater, specifically organic solvents, petroleum hydrocarbons and heavy metals. Other research areas include Solid and Hazardous waste management, Saline water Intrusion, Fluoride removal, Wastewater reuse for agriculture, Lakes and Wetlands restoration. She has been leading the effort in inspiring youngsters in innovating on technologies for environment protection and has been instrumental in nurturing several Clean Tech Start-ups. Dr. Indumathi is a member of the Ministry of Environment's State Environmental Appraisal Committee, Jal jeevan Mission, Unnat Bharat Abhiyan. She is serving in the expert committees of several departments in Tamil Nadu State Government. She has also been serving in the editorial board and review committee of international journals

Abstract

Petroleum leakage from underground storage tanks and pipes are a very common scenario in all facilities handling oil. Tondiarpet in Chennai has witnessed several such incidents. The groundwater in that region was impacted severely and people filed a case against the oil company for compensation. Oil industry offered to supply drinking water through tankers and move on the with their routine operations. The research team from IIT Madras stepped in to do investigations on the extent of pollution, impact of the contaminated groundwater and offered to find permanent remediation of the contaminated groundwater and executed it.

| | | | |
|---|--|-----------------------|--|
|  | | PALS 2022 – 23 |  |
| THEORY TO PRACTICE LECTURE | | | |
|  | <u>SPEAKERS</u> | | |
| | Dr. INDUMATHI M. NAMBI, Professor, Department of Civil, IIT Madras. | | |
| | with | | |
| | RESEARCH SCHOLAR | | |
| <u>TOPIC</u> | | | |
| Groundwater Contamination and Remediation | | | |
| Date : 1ST September 2022 Time : 10.30 AM – 12.30 PM | | | |
| Venue: TTJ Auditorium, ICSR, IIT Madras. | | | |
| PHONE +91 98416 39338 | With support from | | IIT Madras Alumni Association Office, CCW building, IIT M Campus, Chennai – 600 036 |
| EMAIL palspgm@palspgm.com |  IIT MADRAS | | |
| WEB SITE www.palspgm.com | ALUMNI CHARITABLE TRUST | | |

Activity -10

PALS 22-23 innoWAH! LAUNCH - SEPTEMBER 10th between 10.30AM - 12.30PM

The objectives of PALS innoWAH! Innovation Challenge competition are:

- To recognize promising young innovators in the Partner Institutes.
- To showcase their creations to the outside world and give them an opportunity to get recognized.
- To build confidence among the participants through development of their business and communication skills.
- To enable the students to understand the importance of documentation and compliance.
- To hone intrapreneurial skills for working in the industry
- To enhance collaborative teamwork
- To provide the more enterprising individuals, a glimpse into the path of entrepreneurship.
- To mentor and guide the talented individuals.

We will take all necessary steps to sculpt and shape to train our participants to fulfil the needs of effective completion of the activities which are part of the competition.

Theme: “Innovation for the Techade: SMART ENGINEERING FOR BUSINESS

“The engineering solution provided as a response to an identified context to enhance business performance with associated improvement in personal productivity and environmental conditions”

The Team

A minimum of three students and maximum of four students in each team with e a faculty advisor as part of the team . To simulate close to real situations, the teams are encouraged to be diverse in nature. It can have members from different fields, different years (second and third year pre-dominantly).

The innoWAH! coordinators also known as ICs will be the extended arm of PALS relating to innoWAH! in their colleges.

Max Number of teams who can register with PALS from each college for PALS innoWAH! 22-23 is 5 (**FIVE**)

Immediate Steps:

The EC / IC with the help of the interested faculty advisors

1. **Register** all InnoWAH! aspirants for attending the AWE (AWARE WEBINAR FOR ENTREPRENEURS) Series by **Sept 10th 2022** ,.
2. **Help** them attend the AWE’s to be conducted shortly after the launch - to understand, think, collaborate and add contents to the building blocks in the Concept and Design Document.

3. Based on the interest shown and completion of the sections in the prescribed manner in the AWE sessions, **select** the five best teams and share the same by Oct 15th, 2022 along with the Registration link and Declaration document.

Activity -11

PALS 22-23 INNOWAH! IDEATION WORKSHOP - 17TH SEPTEMBER BETWEEN 9.00AM - 5.00PM @ HALL 4, ICSR BUILDING, IIT MADRAS CHENNAI

Activity -12

PALS TECHNOLOGY SPEAKS on 22nd September 2022, 1.30 PM – 3.30 PM

Topic: 3D PRINTING AND ITS APPLICATIONS

Speaker: Padarthy Padmaja, Chief Executive Officer, Next generation 3d printer private limited, Chennai

Brief Abstract:

To give an introduction into the digital manufacturing sector

1. What is 3d printing?
2. Applications in various verticals
3. Careers in AM

Speaker Profile:

Padarthy Padmaja obtained her bachelor degree in Meenakshi Sundararajan Engineering College and completed her Master in Business Administration in Institute For Financial Management And Research. She is currently CEO of NexGen 3D Printers. Previously she served as Director and Co-Founder. She served as a senior level position in JP Morgan & TCS. She has contributed significant technical achievements, are a positive influence on fellow technologists in NexGen 3d Printer as well as in 3d Printing fields.



TECHNOLOGY SPEAKS



SPEAKER

**Padarthi Padmaja, Chief Executive Officer ,
Next generation 3d printer private limited , Chennai**

TOPIC

3D PRINTING AND ITS APPLICATIONS

**Date : 22nd SEPTEMBER 2022 || Time : 01.30 PM – 03.30 PM
VIRTUAL EVENT (Contact Organizer for more details)**

PHONE +91 88528 38861
EMAIL palspgm@gmail.com
WEB SITE www.palspgm.com

**With the Support from
INDUSTRY PARTNERS**

IIT Madras Alumni Association Office,
CCW building,
IIT M Campus,
Chennai – 600 036

Activity -13

PLACEMENT TO TuTr HYPERLOOP LTD - FRESH GRADUATES

Interesting and exciting placement offer has come from Tutr Hyperloop Pvt. Ltd. Please note that this is a placement offer open for only passed out graduates. Kindly go through the details carefully and advise interested aspirants to apply.

About TuTr Hyperloop

TuTr Hyperloop is incubated at the Indian Institute of Technology Madras (IITM), India's #1 Technology University with the largest startup ecosystem in the country. They currently work out of IITM Research Park, haven for the most advanced deep-tech startups emerging from India.

To know more about the company please go through the attached "Tutr Introductory Note" document.

Company Address

TuTr Hyperloop Ltd.,
IIT Madras Research Park No. 1 FA,
I Floor, Kanagam Road Taramani, Chennai – 600 113

Placement Opening

TuTr is looking for hiring 4-5 fresh graduates. Candidate profile, Focus domain, Soft Skill requirement and Academic record requirements are as given below.

Qualification: BE / BTech / ME / MTech / MS in

- Electrical,
- Electronics,
- Mechanical,
- Aerospace,
- Mechatronics, and
- Instrumentation

Focus Domains:

1. Power electronics and motor drive systems
2. Control systems
3. Sensors and Actuators
4. Electromagnetics
5. Materials Technology and Structures
6. Propulsion systems and vehicle dynamics
7. Embedded Systems
8. Instrumentation

Software Tools Exposure:

1. MATLAB and Simulink
2. ANSYS – Mechanical, CFD, or Magnetics
3. HIL & SIL – Vector, dSPACE, or OPAL RT
4. CAD Tools such as CATIA
5. PCB Layout tools such as Cadence
6. Wiring Harness Tools such as Zuken

Academic Record:

1. First class with passing all subjects in 1st Attempt
2. > 75% overall percentage
3. Internship experience in related industry, preferred
4. Publications and Patents, preferred

Attitude:

1. Open to learning and acquiring new skills
2. Entrepreneurial mindset
3. Delivery Focus
4. Team Player
5. Proactive and a self learner

Activity -14

PALS ANALYZE -A CASE STUDY BASED EVENT-28th SEP 10 AM-BATCH-1

| Case Study 1 - CORE | College | Time |
|--------------------------------|---|-------------------|
| TmCore1_Batch1_SHARKS | KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY | 10 AM-10.15 AM |
| TmCore2_Batch1_MECH SPARKERS | MEPCO SCHLENKER ENGINEERING COLLEGE | 10.15 AM-10.30 AM |
| TmCore3_Batch1_FOURCORE ENGINE | SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM CAMPUS | 10.30 AM-10.45 AM |
| TmCore4_Batch1_Rising Star's | VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY | 10.45 AM-11 AM |
| TmCore5_Batch1_mechon s | SAVEETHA ENGINEERING COLLEGE | 11AM-11.15 AM |
| TmCore6_Batch1_SAIRAM_CORETEAM | SAIRAM GROUP OF INSTITUTIONS | 11.15 AM-11.30 AM |
| TmCore7_Batch1_ | SRI VISHNU EDUCATIONAL SOCIETY | 11.35 AM-11.45 AM |
| TmCore8_Batch1_ | AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING | 11.45 AM-12 PM |

| Case Study 2 – IT | College | Time |
|-------------------------------|---|-------------------|
| TmIT1_Batch1_Schutzengel | KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY | 10 AM-10.15 AM |
| TmIT2_Batch1_TECHNOPIRATES | MEPCO SCHLENKER ENGINEERING COLLEGE | 10.15 AM-10.30 AM |
| TmIT3_Batch1_404_Error | SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, RAMAPURAM CAMPUS | 10.30 AM-10.45 AM |
| TmIT4_Batch1_Jet Tech | VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY | 10.45 AM-11 AM |
| TmIT5_Batch1_ABYSS INTELLECTS | SAVEETHA ENGINEERING COLLEGE | 11AM-11.15 AM |
| TmIT6_Batch1_SYNERGY | SAIRAM GROUP OF INSTITUTIONS | 11.15 AM-11.30 AM |
| TmIT7_Batch1_ | SRI VISHNU EDUCATIONAL SOCIETY | 11.35 AM-11.45 AM |

| | | |
|---------------|--|----------------|
| TmIT8_Batch1_ | AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING | 11.45 AM-12 PM |
|---------------|--|----------------|

The Winners and the Appreciation certificate awardees identified by the Panel are:

| | Core Engineering | IT / Systems Engineering |
|----------------------------------|---|--|
| Prize Winners | TAGORE ENGINEERING COLLEGE | MEPCO SCHLENK ENGINEERING COLLEGE KIT – KALAINAR KARUNANIDHI INSTITUTE OF TECHNOLOGY EASWARI ENGINEERING COLLEGE K. S. RANGASAMY COLLEGE OF TECHNOLOGY |
| Appreciation Certificate: | SAVEETHA ENGINEERING COLLEGE RAMCO INSTITUTE OF TECHNOLOGY JERUSALEM ENGINEERING COLLEGE | SRI VENKATESWARA COLLEGE OF ENGINEERING |

**PALS 2022-23 STUDENT LEADER SELECTION for
Leadership Program**

| Name of student | Year | Dept | Contact (Whatsapp) | E-Mail |
|--------------------------|-------------|--|-------------------------------|----------------------------|
| Kiran raaj k.v | III YEAR | MECH | 9789994338 | kiranraaj1507@gmail.com |
| vincent isaac jeyaraj | III YEAR | ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (AIDS) | 9940035225 | vincentisaac777@gmail.com |
| Surekha P G | III YEAR | CHEMICAL | 9003143749 | surekhapg679@gmail.com |
| Kiran R | III YEAR | Medical Electronics | 9080083973 | johnkiran2002@gmail.com |
| Siddhesh Nandhan M S | III YEAR | CSE | 7845955119 | siddhesh.nandhan@gmail.com |
| S.SHRIJA | III YEAR | BME | 6369608120 | shrijasekhar@gmail.com |

All the Best...