



**SAVEETHA  
ENGINEERING COLLEGE**

**AUTONOMOUS**



Affiliated to Anna University | Approved by AICTE

**PALS – 2021-22**

**PALS - Activities held in the month of October 2021**

Below is the list of events that were conducted during the month of October 2021:

- Special Session (AWARE Webinar for Entrepreneurs)
- PALS INDUSTRY SPEAKS -DIGITAL
- VLAB Faculty Meet
- Virtual Faculty Development Programme
- PALS ANALYZE” - Case study event : Core engineering
- PALS ANALYZE : IT / SYSTEMS engineering – Case study event
- Webinar on Lessons from IITs & IITMRP Journey and India’s Future Challenges.
- Webinar - Concurrent Engineering - Role of Designer in Product Development
- Webinar on Teach Me Something.

## **Activity – 1**

Webinar on 6<sup>th</sup> October 2021 between 06.15 PM - 07.45 PM. This AWARE Webinar for Entrepreneurs covers the PRESENTATION TIPS AND TRICKS and a quick refresher on AWE 1, 2, and 3 on the expected documentation for Concept and Design and the details of the PYP contest on the 29<sup>th</sup> and 30<sup>th</sup> October, 2021. Ms. Shachi Yelandur, Chief Technology Evangelist at Ortusolis Technology Services shared some tips to budding start-up aspirants for PALS partner institutes.

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|    | <b>PALS 2021 – 22</b>                        |           |
| <b>AWARE WEBINAR SERIES</b>   |  |  |
| <b>PRESENTATION TIPS AND TRICKS</b>   |  |  |
| By  |  |  |
| <b>Ms. Shachi Yelandur, Chief Technology Evangelist at Ortusolis Technology Services</b>  |  |  |
| <b>Date : 6<sup>th</sup> OCTOBER 2021   Timing: 06.15 PM – 07.45 PM</b>   |  |  |
| <b>Meeting Details : Zoom Meeting   You tube live Streaming<br/>(Contact Organizer to get the virtual meeting details)</b>  |  |  |
| <b>PHONE</b> +91 98416 39338<br><b>EMAIL</b> <a href="mailto:palspgm@palspgm.com">palspgm@palspgm.com</a><br><b>WEB SITE</b> <a href="http://www.palspgm.com">www.palspgm.com</a> | <b>AUGMENTING ENGINEERING<br/>EXCELLENCE</b> | IIT Madras Alumni Association Office,<br>CCW building,<br>IIT M Campus,<br>Chennai – 600 036 |

## Activity – 2

PALS INDUSTRY SPEAKS -DIGITAL on 7<sup>th</sup> October 2021 between 02.00 PM - 04.00 PM.

Topic: Trends in CyberSecurity - an IBM PoV ,Mr Mahesh Paradkar, Program Director, IBM Security, IBM.

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|   | <b>PALS 2021 – 22</b>  |                     |
| <b>INDUSTRY SPEAKS - DIGITAL</b>   |  |  |
|   | <p><u>SPEAKER</u><br/><b>Mr Mahesh Paradkar, Program Director, IBM Security, IBM</b></p> |  |
| <p><u>TOPIC</u><br/><b>TRENDS IN CYBERSECURITY – AN IBM POV</b></p>  |  |  |
| <p><b>Date : 7<sup>th</sup> OCTOBER 2021    Time : 02.00 PM – 04.00 PM</b><br/><b>VIRTUAL EVENT (Contact Organizer for more details)</b></p>   |  |  |
| <p><b>PHONE</b> +91 98416 39338<br/><b>EMAIL</b> <a href="mailto:palspgm@palspgm.com">palspgm@palspgm.com</a><br/><b>WEB SITE</b> <a href="http://www.palspgm.com">www.palspgm.com</a></p> | <p><b>With the Support from</b><br/><b>INDUSTRY PARTNERS</b></p>                         | <p>IIT Madras Alumni Association Office,<br/>CCW building,<br/>IIT M Campus,<br/>Chennai – 600 036</p> |

## **Activity -3**

PALS conducted virtual “VLAB Faculty Meet” for the Faculty Members of its Partner Institutes.

All faculty members were invited to attend these VLAB Faculty Meets, which were intended to provide general understanding and awareness amongst all faculties towards VLABS and related topics.

Faculty identified as VLABS coordinators finds this session informative and useful to their understanding of VLABS.

The VLAB Faculty Meet for the July-September 2021 Quarter - held on 8<sup>th</sup> October 2021 forenoon between 10.30AM – 12.30PM.

All EOI nominated faculty, faculty who attended the FDP session and other interested faculty of the institution can attend.

Broad aspects that will be covered in the session are as below

- Remote Experiential Learning through Virtual Labs - A tool for trans-disciplinary Problem Solving: Demonstrations & Interaction
- VLAB Development overview

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| <br><b>PALS 2021 – 22</b> |  |  |
| <b>PALS VLAB FACULTY MEET</b>  |  |  |
| Date : 8 <sup>th</sup> OCTOBER 2021  |  |  |
| Time : 10.30 AM – 12.30 PM   |  |  |
| <b>PHONE</b> +91 98416 39338   | <b>With the Support from</b><br><b>IITM &amp; IITM Research Park</b> | IIT Madras Alumni Association Office,<br>CCW building,<br>IIT M Campus,<br>Chennai – 600 036 |
| <b>EMAIL</b> palspgm@palspgm.com   |  |  |
| <b>WEB SITE</b> www.palspgm.com  |  |  |

## Activity -4

PALS conducted hands-on **Three Days Virtual Faculty Development Programme on Vehicle Engineering** by our Industry Partner Ashok Leyland Limited(ALL) from Oct 25th -27th ,2021.

4 Faculty members from Mechanical Department were nominated from our college to attend the program. This FDP is from the core engineering discipline.

### Prerequisites: -

Faculty from Mechanical, Automobile engineering and allied departments

### Topics to be Covered:

Fundamentals of Engines – Heavy Duty Diesel, BS6 & IC , Vehicle Engineering for Small trucks, Buses

### Tentative Agenda:

#### Day 1: Monday 25th Oct

1. Design & Development Methodology of a Heavy Duty Diesel Engine 9:30-10:30; Q&A 10:30-11
2. Fundamentals of the IC Engine 11-12; Q&A 12:00-12:30

#### Day 2: Tuesday 26th Oct

- 3, Overview of the BS6 Engine 9:30-10:30; Q&A 10:30-11
4. Vehicle Engineering for Trucks 11-12; Q&A 12:00-12:30

#### Day 3: Wednesday 27th Oct

5. Engineering Small Trucks and Buses 9:30-10:30; Q&A 10:30-11
6. Designing Vehicles for Reliable Field Performance 11-12; Q&A 12:00-12:30

## Activity – 4

Results of PALS ANALYZE” Case study event : Core engineering – Case study 1 : **Traceability Of Billet in steel rolling mill – Special steels.**

Student Participants :

| Participant Name         | Dept     | Year     | Student ID   |
|--------------------------|----------|----------|--------------|
| GOKULA SRINIVASAN SELVAM | CHEMICAL | III YEAR | 212219210012 |
| MANOJ KUMAR.N            | CHEMICAL | III YEAR | 212219210019 |
| ABHERNA SHREE M          | CHEMICAL | III YEAR | 212219210002 |

Following their presentations, teams were provided with feedback and comments on their solutions from the industry expert in the panel.

### **APPRECIATION CERTIFICATE**

The panel has recommended that the team be awarded a “ **Appreciation certificate with reward**”, for their efforts in identifying a solution to the problem

We trust the students found this as a good experience in preparing for “**real life**” problem situations and help them in future competitions of this nature

## Activity – 5

PALS ANALYZE : IT / SYSTEMS engineering – Case study 1 : **Extract Text from Embedded Image**

Student Participants:

| Participant Name | Dept | Year     | Student ID   |
|------------------|------|----------|--------------|
| AKASH R          | CSE  | III YEAR | 212219040007 |
| NAVEEN PRABHU S  | CSE  | III YEAR | 212219040091 |
| CHANDRAMOHAN A   | CSE  | III YEAR | 212219040018 |
| KARTHICK S       | CSE  | III YEAR | 212219040058 |

### Comments :

The team did presentation covering the pre-processing and leveraging the Pytheseract for image extraction. The team has conceptually covered the solution with required components.

### Suggestions:

The suggestion for further development which the student team may pursue on their own interest is given below:

Consider building the solution covering the various industry challenges in the Image Processing. The images should be normalized for the pixel intensity reduction, gray scaling to boost the performance, Noise reduction and Skew handling to handle the exceptions. In order to determine the text present in each segment, crnn model can be used. There are ready made models also available, but we recommend to build the data for the models using your own data. This will enable learn how to handle the exceptions during the model development process.

All the students in the teams who participated in the event would be eligible for a” **Participation certificate** “.

We trust the students found this good experience in preparing for “**real life**” problem situations and help them in future competitions of this nature

## Activity – 5

Talk by Prof. Ashok Jhunjunwala - Lessons from IITs & IITMRP Journey and India's Future Challenges - 23 Oct 21, 06.30 pm IST.

IIT Madras Alumni Association  
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Lessons from  
**IITs & IITMRP**  
Journey and India's  
Future Challenges

**SPEAKER**  
**Prof. Ashok Jhunjunwala**  
Institute Professor, IIT Madras, India  
President, IITM Research Park, IITM  
Incubation Cell and RTBI

**MODERATOR**  
**Ramesh Mangaleswaran**  
Senior Partner,  
McKinsey and Company Inc

Online Engagement Platform | Saturday, 23 Oct 21 | 06.30 pm, IST

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## Activity – 6

Webinar on **Concurrent Engineering - Role of Designer in Product Development** on 23rd October 2021 at 20.00 to 21:00 hours IST.



**kite platform Webinar Series**



Ministry of Heavy Industries  
Government of India

**Webinar**

**Concurrent Engineering - Role of Designer in Product Development**

**Shri. D B Kulkarni**  
Trainer and Freelance Consultant  
23<sup>rd</sup> October 2021  
at 20.00 to 21:00 hours IST

**Meeting Link:** <https://meet.google.com/fzn-xzkq-tny>

**About the speaker**

Mr. D B Kulkarni completed his graduation in Mechanical Engineering (BE) from Walchand College of Engineering, Sangli during 1978 and post-graduation in Mechanical Engineering (ME) from Indian Institute of Science Bangalore during 1980. He was elected as FIE by Institute of Engineers, Kolkata in 2014. He has 40+ years of experience in the area of Design of Rotating Machines, Rotor Dynamics and Balancing, Alignment & Vibration Analysis of Rotating Machines. Shri Kulkarni worked with M/s Kirloskar Electric Bangalore for 18 years as Deputy Manager, and 2.5 years with M/s Crompton Greaves, Mumbai as Chief Design Engineer. He worked in the areas of mechanical design of motors and generators, VE and ISO. He has worked with M/s GE India for 4.5 years at JFWTC, Bangalore. He worked in the areas of modelling and analysis of aircraft engines using Finite Element Techniques.



Mr. Kulkarni has worked with M/s B Fouress Ltd for 5.5 years at Hoskote, Bangalore as Chief of Technology. He has worked in the areas of mechanical design & stability of Turbine – Generator system, site support, erection & trouble shooting. He has worked with M/s Fowler Westrup, India for 2.5 years in the area of post-harvest machinery as AVP Design and New Product Development. He has worked in the areas of hydrodynamic bearing design, static and dynamic analysis of individual rotor as well as coupled rotor systems, CAD, CAE and FEA, Rice Milling Machines design and plant design, Small Power Plant design, Erection and Commissioning of small Plants – Power and Rice Milling. Developed various standard and special range of Motors and Generators, Power Plant. He has visited many sites and successfully solved vibration problems in rotating machinery. He is an expert in the failure analysis of site problems of rotating machines. He is a corporate trainer and conducted 150+ training sessions pan India and abroad.



**Moderator:** Srikanth R, Principal Research Engineer AMTDC

**Engineering Students Internship Program**



## Activity – 7

PALS has shared the Invite to webinar session on “Teach Me Something Season 2” – October 28<sup>th</sup>, 2021 from 3.00 PM to 7.00 PM



**IBM.**

**THE MOST AWAITED MASTERCLASS OF THE YEAR IS BACK.**

**TEACH ME SOMETHING SEASON 2 WITH NIKHIL TANEJA.**

OCTOBER 28, 2021 | 3:00 PM – 7:00 PM

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**TEACH ME SOMETHING SEASON 2**

IBM and Yuvva is back with 'Teach me something'. We would like to invite you for the season 2 of the much awaited masterclass and take part in the power packed sessions featuring IBM leaders and key influencers of the country.

**KEY SPEAKERS**

|  |  |
|--|--|
|  <p><b>AKHTAR ALI</b><br/>VICE PRESIDENT<br/>ISDL AND TECHNICAL COMPUTING DEVELOPMENT SYSTEMS<br/>IBM</p> |  <p><b>THIRU NAGARAJAN</b><br/>VICE PRESIDENT<br/>HUMAN RESOURCES<br/>IBM INDIA</p>                                 |
|  <p><b>ANUJ MALHOTRA</b><br/>VICE PRESIDENT<br/>SERVICE LINES AND OPERATIONS<br/>IBM</p>                  |  <p><b>SREEJIT ROY</b><br/>SENIOR PARTNER<br/>SERVICE LINE LEADER, GBS<br/>IBM</p>                                  |
|  <p><b>SOUMITRA LIMAYE</b><br/>DIRECTOR<br/>DIGITAL TECHNOLOGY LAB<br/>IBM SOFTWARE LABS</p>              |  <p><b>RAJEEV PALANKI</b><br/>LEADER<br/>EMPLOYEE EXPERIENCE<br/>PEOPLE OPERATIONS<br/>IBM SOFTWARE LABS, INDIA</p> |
|  <p><b>TUHINA PANDEY</b><br/>COMMUNICATIONS LEADER,<br/>IBM, INDIA AND SOUTH ASIA</p>                   |  <p><b>MONA BHARADWAJ</b><br/>IBM GLOBAL UNIVERSITY<br/>PROGRAMS LEADER – INDIA</p>                               |

**THOUGHT LEADERS AND KEY INFLUENCERS**

|   |  |   |
|---|--|---|
|  <p><b>VARUN DUGGIRALA</b><br/>CO-FOUNDER/CEO<br/>THE GLITCH</p> |  <p><b>ROSHAN ABBAS</b><br/>FOUNDER/MD<br/>KOMMUNE, ENCOMPASS</p> |  <p><b>MALINI AGARWAL</b><br/>FOUNDER<br/>MEE, MALINI &amp; GIRL TRIBE</p> |
|---|--|---|

**BE THERE. GET INSPIRED.**

OCTOBER 28, 2021 | 3:00 PM – 7:00 PM

[REGISTER NOW](#)