




# St. Joseph's College of Engineering St. Joseph's Group of Institutions OMR, Chennai – 119.



JANUARY 2020

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p style="text-align: center;"><b>INDUSTRIAL VISIT</b></p>  <p style="text-align: center;"><i>Outer view of SNJ Breweries</i></p>	<p style="text-align: center;"><b>INDUSTRIAL VISIT</b></p> <p>As a part of curriculum activity to expose students on industrial process, the department of biotechnology has organized industrial visit for the II year B. Tech Biotechnology and I year M.Tech Biotechnology students. A total of 63 students (52 B. Tech and 11 M.Tech) have visited <b>SNJ Breweries Pvt. Ltd., Maduranthaga</b> on <b>24.01.2020</b>. During the visit students were exposed to new technologies on brewing and fermentation process.</p>

## AWARDS / PRIZE WON BY STUDENTS

### BEST ORAL PRESENTATION AWARD



3.

*Ms. Shirley Riksy receiving Best Oral Presentation Award*



*Copy of certificate and Best Oral Presentation Award*

## AWARDS / PRIZE WON BY STUDENTS

### BEST ORAL PRESENTATION AWARD

Ms. Shirley Riksy of II year M. Tech Biotechnology has attended the **International Conference On Recent Trends In Agriculture Towards Food Security And Rural Livelihood** jointly organized by **All India Agricultural Students Association (AIASA - Tamilnadu) & Faculty of Agriculture, Annamalai University, Chidambaram, India** on 3<sup>rd</sup> & 4<sup>th</sup> January, 2020

She had presented paper entitled as "Enhancement of soil moisture and drought tolerance in *Oryza sativa* using natural source" and won **Best Oral Presentation Award Paper**.



*Ms. Pushpalatha Certificate of award for the event paper presentation*

**Ms. Pushpalatha M** of III year B.Tech Biotechnology has participated in the **National Level Technical Symposium TACHYONZ 2020** organized by the department of Biotechnology, **Jeppiaar Engineering College** , OMR, Chennai on 10<sup>th</sup> January, 2020 and won following prizes

<b>Paper Presentation</b>	<b>First</b>
<b>Splice Out</b>	<b>First</b>
<b>Glide IT</b>	<b>First</b>



*Ms. Pooja Certificate of award for the event paper presentation*

**Ms. Pooja R** of III year B.Tech Biotechnology has participated in the **National Level Technical Symposium TACHYONZ 2020** organized by the department of Biotechnology, **Jeppiaar Engineering College** , OMR, Chennai on 10<sup>th</sup> January, 2020 and won following prizes

<b>Paper Presentation</b>	<b>First</b>
<b>Splice Out</b>	<b>First</b>
<b>Glide IT</b>	<b>First</b>

**Mr. Sathish Kumar G** of III year B.Tech





*Mr. Sathis Certificate of award for the event Splice Out*

Biotechnology has participated in the **National Level Technical Symposium TACHYONZ 2020** organized by the department of Biotechnology, **Jeppiaar Engineering College** , OMR, Chennai on 10<sup>th</sup> January, 2020 and won **First prizes** in the event **Splice Out**

**SHORT TERM TRAINING PROGRAM**



*Dr. G. Sreekumar certificate for participation in STTP*

**SHORT TERM TRAINING PROGRAM**

**Dr. G. Sreekumar** has attended **AICTE** sponsored six days **Short Term Training Program on "Instrumental Methods of Analysis"** organized by the Department of Chemical Engineering, **Sri Venkateswara College of Engineering** during 4<sup>th</sup> – 9<sup>th</sup> November, 2019.

## RESEARCH HIGHLIGHT

This is a simple, but robust model, says Pashan Mohsin Khan, NPER, Kolkata.

Hydrophobicity, presence of hydrogen bond acceptor atoms, number of halogen atoms and presence of R-CH-X fragments in the molecules are the main factors that increase the half-life of organic chemicals in the air, says Kunal Roy, Jadavpur University.

Now, with this model, it is easy to predict the atmospheric persistence of chemical compounds quickly, using only the knowledge of the chemical structure of the compounds—a timely alternative to costly and time-consuming experimental methods.

DOI: 10.1016/j.jaas.2019.12.1035

### Fishing for Heavy Metals Scaling up remediation

Poisonous heavy metals like cadmium and lead, discharged from factories, mines, batteries, paints, etc., contaminate rivers and soils. These heavy metals enter the food chain, causing harmful effects to living organisms including humans. Accumulation of lead and cadmium causes damage in kidney, liver, bone and the reproductive system.

Recently, Divya Pal and Subodh Kumar Maht from IIT Dharwad proposed an easy way to remove the heavy metals from a highly contaminated aquatic pond in the vicinity of the coastal city, Dharwad. The team used fish scales as absorbent material to immobilize cadmium and lead in the sediments.



Image: Rajesh Dargu via Shutterstock

Fish scales are easily available waste. The scales contain collagen fibres and hydroxyapatite besides some calcium compounds. Both collagen fibres and hydroxyapatite are

known to be biosorbents and immobilize dyes and metals.

However, raw fish scales could absorb less than 50% of cadmium and lead metal ions. The researchers thought that, if unwanted minerals and organic matter are removed from raw fish scales, efficiency might increase. They tried different methods. Treating with alkali, treating with acid, hydrothermal treatment... Ultimately they realised that hydrothermal treatment along with acid for three hours at 150 degrees Celsius is the best.

The material is highly porous with a surface area of more than a hundred square metres per gram. Biosorbents with particle size of about 300 micrometres were most effective at pH 8.50, very close to the neutral pH.

The research team found that sediments treated with this material can immobilize more than 90% of cadmium and lead metal ions. Once adsorbed, the metal ions did not leach out easily.

An estimated 10 to 30 million tonnes of fish waste is generated annually and mostly discarded or dumped in the land or sea leading to environmental and health problems, and undesirable odours from dumping sites. Using fish scales to remove heavy metals from contaminated water offers a viable, cheap and environmental-friendly approach to reduce toxic metals and also minimize the impact of fisheries on the aquatic environment.

DOI: 10.1016/j.scienv.2019.105833

### *Spinalina platensis* For organic dye degradation

Organic dyes released from the textile, paper, pharmaceutical, printing, leather and cosmetic industries pollute water. While photo-catalysts can be used to degrade many of these polluting chemicals, the metal-oxide nanoparticles used for the purpose leave residues in water.

Reports show that many algae are also capable of degrading dyes. These algae accumulate the toxic substances which then need to be harvested. But it is known that some blue-green algae, such as *Spinalina platensis*, also secrete photosensitive proteins. And this is available as waste from raceway ponds where the

organism is cultivated for nutraceutical uses. Can we use the photosensitive from the waste of algal cultivation to remediate water polluted by dyes?

M. Chamundeeswari and P. Saravanan from the St Joseph's College of Engineering, Chennai set the problem to their research scholar, Sharmila. The team collected the water from the raceway ponds at three different companies. The water was greenish and contained some amount of microalgae. They filtered the algal cells out to test the cell-less water.

The team selected three different dyes: methylene blue, malachite green and Congo red, released from industries. They mixed the dyes with the *S. platensis*-cultivated wastewater in different concentrations and kept these mixtures in the dark as control and in the presence of sunlight under different temperature ranges, for three hours and kept sampling the water every 30 minutes. From the absorbance levels they calculated the percentage of dye degradation.

Methylene blue and malachite green took only one hour to degrade. But Congo red took three hours. The mixture of organic dyes was completely decolourised and degraded under sunlight within three hours', says Sharmila, St Joseph's College of Engineering, Chennai.

In control experiments—in dark conditions—this was not the case.

The wastewater from the raceway ponds contained phycoerythrin along with traces of metal ions. In the presence of sunlight, phycoerythrin forms complexes with metal ions and become active in dye degradation, says Chamundeeswari.

It is a simple, light-induced dye degrading method, without any chemicals. We are using wastewater from one industry to treat the wastewater from others, says P. Saravanan.

This cost effective method could open new doors for sewage treatment plants', adds M. Chamundeeswari.

The amounts of the photosensitive proteins in the wastewater from the three companies varied. So it is


NEWS


## RESEARCH HIGHLIGHT

Dr. M. Chamundeeswari research work has been published as a news in **Current Science Journal** Volume 118, Issue 2 dated 25<sup>th</sup> January, 2020 as one of the **best research highlight in Science Last Fortnight**.

Copy of research highlight in Current Science Journal

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Collaborative Quality initiatives with other institutions	--
2.	<p><b>Industrial Visits, Inplant trainings, Internships</b></p>  <p style="text-align: center;"><b>III year Civil Students visit Institute of Hydraulics and Hydrology, Poondi Reservoir on 29.01.2010</b></p>	<p>The aim of the industrial visit is to provide an exposure to students about practical working environment in the field of Civil Engineering. This industrial visit provides students good opportunity to gain full awareness about industrial practices also it attains the curriculum gap between theory and Industrial practice. Students from Civil department visited companies Institute of hydraulics and hydrology, Poondi Reservoir on 29/01/2020 and Slum Clearance Project at Kuyil Kuppam, Manapathy, Thiruporur on 30/01/2020 in relevance to the subject Irrigation Engineering and construction techniques and planning in the current semester.</p>

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
	 <p data-bbox="296 776 1094 837">II year Civil Students visited Slum Clearance Project, Kuyil Kuppam, Manapathy, Thiruporur on 30.01.2020</p>	
3.	Guest Lecture	---
4.	FDP/Workshop/Conference	<p data-bbox="1241 1024 1969 1114">1. Ms.S.Banupriya, Ms.R.Ruthra and Mr.P.Sribalaji has attended an International Conference on “Sustainable future” held at Anna University, Chennai on 6<sup>th</sup> January 2020.</p>

### DEPARTMENT OF MATHEMATICS



Events	Remarks
Industrial Visits, Inplant Training, Internships	-

<b>Guest Lecture</b>	-
<b>FDP/Workshop/Conference</b>	<p><b>Conference:</b></p> <ol style="list-style-type: none"> <li>1. Dr.V. Vallinayagam, presented a paper entitled “ Classification of Tuberculosis in Chest Radiographs by Deep Learning” in Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at Manonmaniam Sundaranar University on December 11, 2020.</li> <li>2. Dr.V. Premalatha presented a paper entitled “Disease classification by clustering incorporated Neural network Classifier” in Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at Manonmaniam Sundaranar University on December 11, 2020.</li> <li>3. Dr.G. Meenadevi presented a paper entitled “Disease classification by SVM Classifiers” in Recent Trends in Stochastic Modelling and its Applications (ICRTSMA-2020) at Manonmaniam Sundaranar University on December 11, 2020.</li> </ol>
<b>Symposium</b>	-
<b>STTP</b>	-
<b>Value added Courses/Courses other than VAC</b>	-



<b>Competitions attended by students</b>	<b>S.No</b>	<b>Name of the Student</b>	<b>Branch / Sec</b>	<b>Event Organized by</b>	<b>Date</b>	
	1	S.Jai Charan	I IT A	KCG College of Technology	10/01/2020	
	2	S.Pranav	I MECH B	Madras Christian College, Chennai	24/01/2020	
	3	S.N. Jayanathan	I MECH B			
	4	Vignesh karuppasamy	I ECE C			
	5	Tharun Prakash	I ECE C			
	6	Shriya mukundan	I ECE C			
	7	Sanjana	I CSE C			
	8	Sylvia	I CSE C			
	9	R. Arun	I IT A			
	10	S.Jai Charan	I IT A			
	11	L.Rakesh	I CSE B			
	12	P.M.Ashwin	I MECH A			
	13	E.Anand	I ECE A			
	14	B.Adhikesav	I ECE A			
	15	S.Deepak Nithin	I ECE A			
	16	Jagadesh A	I IT A			
<b>Awards/Prize won by students</b>	<b>S.NO</b>	<b>NAME</b>	<b>BRANCH &amp; SEC</b>			<b>EVENT</b>
	1	S.Jai Charan	I IT A	Technical Quiz	KCG College of Technology	II
<b>Industrial Projects done by students</b>	-					
<b>Publications(only published) details</b>	Dr. J. Clement, "Weighted Mostar indices as measures of molecular peripheral shapes with applications to graphene, graphyne and graphdiyne nanoribbons", SAR & QSAR in environmental research, Vol:31 Issue: 3, Pages :187- 208. 2020. (WOS) SCI indexed.					
<b>Funded Projects</b>	-					
<b>Other activities</b>	-					

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks										
<b>January 2020</b>												
1.	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Name of the Student</th> <th style="text-align: left;">Year/Sec</th> </tr> </thead> <tbody> <tr> <td>Prashanth Srinivas</td> <td>IV EEE C</td> </tr> <tr> <td>Sowmya M</td> <td>IV EEE D</td> </tr> <tr> <td>Srinivasan J</td> <td>IV EEE D</td> </tr> <tr> <td>Sriram Soorya</td> <td>IV EEE D</td> </tr> </tbody> </table>	Name of the Student	Year/Sec	Prashanth Srinivas	IV EEE C	Sowmya M	IV EEE D	Srinivasan J	IV EEE D	Sriram Soorya	IV EEE D	Our students from EEE department got selected for internship in <b>L&amp;T constructions - Smart World And Communication</b>
Name of the Student	Year/Sec											
Prashanth Srinivas	IV EEE C											
Sowmya M	IV EEE D											
Srinivasan J	IV EEE D											
Sriram Soorya	IV EEE D											
2.		Our students have been shortlisted for the Full Paper Submission round of the Idea Spark 2019-2020 event conducted by Center For Social Innovation & Entrepreneurship, IIT Madras Sowmiya M (IV EEE D) & Swathish G (III EEE C) for the topic Exact detection of accident place & ambulance rescue system										
3.		Our staff Member of Electrical and Electronics Engineering <b>Mr.R.Sreekanth</b> has successfully completed <b>Multiobjective Optimization Problems and Algorithms and Energy &amp; Power System Optimization in GAMS</b> , Udemy online Course. He has attended two IEEE Webinar on <b>"Solar PV Microinverter – Technology “</b> and <b>“Advanced Safety Architecture for Automotive Systems”</b> .										

4.	<b>Students Name</b>	<b>Name of the Event</b>	<b>Conducted by</b>	<b>Prize won</b>	Our students of Electrical and Electronics Engineering who won prizes in the various event held at various colleges
	HARIHARAN R JAFREYKIRAN S JAYAVIGNESHWAR G	Circuit Debugging	Sai Ram Institute Of Technology	I	
	HARIHARAN R JAFREYKIRAN S JAYAVIGNESHWAR G	Technical Quiz	Sai Ram Institute Of Technology	I	
	ASHWINNATH S AADITHYA S ADHITAN A	CIRCUIT DEBUGGING	EASWARI ENGINEERING COLLEGE	I	
	ASHWINNATH S	ARDUINO CHALLENGE	EASWARI ENGINEERING COLLEGE	II	
	SHARAN R	INNOVATION FAIR	JEPPIAAR ENGINEERING COLLEGE	II	
	SHARAN R	PAPER PRESENTATION	JEPPIAAR ENGINEERING COLLEGE	II	
	SHARAN R	POPERIUS KYNNING	JEPPIAAR ENGINEERING COLLEGE	III	
	SHARAN R	ELEKZAP	JEPPIAAR ENGINEERING COLLEGE	I	
5.	<b>Students Name</b>	<b>Conference</b>	<b>Paper title</b>	Our students of Electrical and Electronics Engineering who have presented paper in the conference and published paper in scopus indexed journal	
	Hounandan R Kumaran MS	2 <sup>nd</sup> International Conference on Power Engineering ,Computing and Control – VIT Chennai	Dynamic Analysis of Fuel Cell Fed Superlift Converter		
	Nirmitha A.J Jennifer Dania T	2 <sup>nd</sup> International Conference on Power and Embedded Control Drive - SSN College of Engineering	Comparative Analysis of Fuel Cell Based Positive and Negative Output Superlift Converter		

6.



*Pic : Student Workshop by Finland labs (IOT using Arduino)*



*Pic : Student Workshop by NITTTR (PLC and SCDA)*




*Pic : Student Workshop by Emcog(Design of SMPS)*

Our students from III year EEE participated two days student workshop during 23/01/2020 – 24/01/2020 by NITTTR(PLC and SCDA), Emcog(Design of SMPS) and Finland labs(IOT using Arduino)



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
	NGO Visit 	Date of visit: 25.01.2019 Place of visit: Faith home, (Orphage) Nanmangalam, Chennai Students : III year CSE – B Sec Duration : 10.30 AM to 3.30 PM <b>Objective:</b> To know the social responsibilities of students and to motivate them enhance their helping tendency and sharing things to others this visit has been arranged.  <b>Outcome:</b> Students get the different experience by interacting and playing with the school kids and also the kids get the feeling about they have brothers and sisters. Students discussed with the kids to understand the family background and also the inabilities of the parents of the kids.



## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	-
1	Industrial Visits, Inplant Training, Internships	-
2	Guest Lecture	-
3	FDP/Workshop/Conference	The following staff members have presented paper in the International conference on

		Materials and biological researches on 9 <sup>th</sup> Jan 2020 at Dr. RKS College of Arts and Science. 1. Dr. V. N. Nandini Devi 2. Dr. S. Suresh 3. Dr. V. Swarnalatha 4. Dr. P. Saravanan 5. Dr. N. R. Rajagopalan 6. Ms. J. Sharmila 7. Ms. S. Savitha 8. Dr. K. Jayamoorthy 9. Dr. B. Subash
4	<b>Symposium</b>	-
5	<b>STTP</b>	-
6	<b>Value added Courses/Courses other than VAC</b>	-
7	<b>Competitions attended by students</b>	1.MOHANA PRIYA D –I ECE-B has attended paper presentation in the National level Technical symposium held at Jeppiaar Engineering College, Chennai on 10 <sup>th</sup> January 2020. 2. MOHANA PRIYA D –I ECE-B has attended Puperius Kynning in the National level Technical symposium held at Jeppiaar Engineering College, Chennai on 10 <sup>th</sup> January 2020. 3. MOHANA PRIYA D –I ECE-B has attended Innovation Fair in the National level Technical symposium held at Jeppiaar Engineering College, Chennai on 10 <sup>th</sup> January 2020. 4.Mohan Kumar N – I EEE –B has attended photography contestant in the National level Technical symposium SPANGLES held at Easwari Engineering College, Chennai on 6 <sup>th</sup> January 2020. 5. Mohan Kumar N – I EEE –B has attended Robo Soccer in the National level Technical symposium held at MIT,Anna University Chennai on 24 <sup>th</sup> & 25 <sup>th</sup> January 2020.
8	<b>Awards/Prize won by students</b>	1. MOHANA PRIYA D –I ECE-B has won second place in paper presentation in the National


		<p>level Technical symposium held at Jeppiaar Engineering College, Chennai on 10<sup>th</sup> January 2020.</p> <p>2. MOHANA PRIYA D –I ECE-B has won third place in Puperius Kynning in the National level Technical symposium held at Jeppiaar Engineering College, Chennai on 10<sup>th</sup> January 2020.</p> <p>3. MOHANA PRIYA D –I ECE-B has won second place in Innovation Fair in the National level Technical symposium held at Jeppiaar Engineering College, Chennai on 10<sup>th</sup> January 2020.</p> <p>Mohan Kumar N – I EEE –B has won first place in photography contestant in the National level Technical symposium held at Easwari Engineering College, Chennai on 6<sup>th</sup> January 2020.</p> <p>5. Mohan Kumar N – I EEE –B has won first place in Robo Soccer in the National level Technical symposium held at MIT,Anna University Chennai on 24<sup>th</sup> &amp; 25<sup>th</sup> January 2020.</p>
9	<b>Industrial Projects done by students</b>	-
10	<b>Publications(only published) details</b>	-
11	<b>Funded Projects</b>	-
12	<b>Other activities(if any)</b>	-

## DEPARTMENT OF INSTRUMENTATION AND ENGINEERING

Sl. No.	Event with Photo	Description
	<p>One day national Seminar sponsored by IEI</p> 	<p>Organized by The Institution of Engineers (India)            Venue: Jerusalem College of Engineering            Date: 23.01.2020            Objective: Challenges in E vehicle</p>
	<p>Inplant Training</p> 	<p>Inplant training- during Dec19-Jan 2020            II year- ICE            No students undergone: 4            III Year – ICE            No students undergone: 5</p>



## DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Event with Photo	Description
1.	<p>Industrial Visit</p>  <p style="text-align: center;"><i>Students of III mech B at NLC</i></p>	<p>Main aim of the industrial visit is to provide an exposure to students about practical working environment. They also provide students a good opportunity to gain full awareness about industrial practices. Students from III year, Section B mechanical department visited NLC on 22/01/2020.</p>
2.	<p>InPlant Training</p>	<p>The aim of the Inplant Training is to provide an exposure to students about the Current scenario in industries in the field of mechanical engineering. Students from our department had undergone inplant training at various organisations like Tuticorin Thermal Power Plant, Electric Loco Shed, Chennai Port Trust, MAHLE Engine Components, TVS Sundaram Clayton Ltd , Bonfiglioli Transmissions Pvt Ltd, Kaleesuware Refinery Pvt Ltd</p>
3.	<p>NGO Visit</p>	<p>Date of visit: 25/01/2020 Place: SEED Boys Orphanage, Udkottai. 74 students from third year B section along with two staff members visited a orphanage home at udkottai. the students interacted with the children at the orphanage and donated stationaries, provisions that they could afford.</p>



**Publication:**

4.

Mr.Balamurugan T & Dr.Arunkumar N Published a paper titled, "*optimization of Inventory Routing problem to minimize Carbon dioxide emission*" in Int j simul model 17,ISSN 1726-4529

## DEPARTMENT OF MBA

1.

**Industrial Visit to Ambattur Diary, Tamil Nadu Co operative Milk Producer Federation Ltd, Ambattur**  
**MBA Sec-A 27.01.2020**



**MBA Sec-B 31.01.2020**



On 27<sup>th</sup> and 31<sup>st</sup> January 2020, MBA students visited **Ambattur Diary, Tamil Nadu Co operative Milk Producer Federation Ltd.** Ambattur for the industrial visit. The visit consisted of 55 students of MBA Sec-A and 58 students of MBA Sec –B along with the faculty members of Dr. R. Sundari and Mr. S.P. Karuppaiah, for section A students Mr.Surenthiran David and Dr.Abirami for Sec-B students. The students with the staff members left the college premises around 8:30 am and reached the destination by 10:45 am. The visit started with an introduction of production process where the milk is generated from various villages and districts which includes Madurai, Trichy, Vellore, Salem, etc.,. The production process is started as the milk is transferred to the quality check process through pipes where the cleaning process of the pipes is done once in 24 hours by using caustic soda, water and acids. This procedure is continued by, processing of heat where the pasteurization is done at 78°C of heat followed by cooling the milk at 4°C. Here the presence of homogenizer consisting of 2 pistons which rotates continuously to break the fat content in it and distribute it equally.

The milk is injected through an injection rod and the packets are sealed horizontally and vertically and then cooled down at 10° C. This unit dispatches 4.5 lakh liters of milk on daily basis. The unit produces 4 types of milk consisting of Toned milk (Fat 3%), Standardized milk (Fat 4.5%), Full cream milk (Fat 6%) and Double toned milk (Fat 1.5%).

This unit consists of 500 workers. It provides welfare facilities such as separate restrooms for men and women, clean drinking water with the canteen facilities. It also provides emergency vehicles and presence of first-aid kits. It facilitates PF's and insurance to workers. The shift timing consists from 9:00 am to 5:30 pm with no double and night shifts.

The students reached the college premises around 2:15 pm in the afternoon. The students felt the session enlightening and interesting as it is closely related to the course. The students then thanked the department for the knowledgeable session.

2.

**Industrial Visit to Hanon Systems, Maraimalai Nagar**

**MBA Integrated 28.01.2020**



On 28<sup>th</sup> January 2020, MBA third year integrated students are visited the Hanon Systems Maraimalai Nagar for the industrial visit. The visit consisted of 17 students along with the faculty members of Dr. M. Manikandan, and Ms. A.Jebakerupa Roslin The students and the staff members left the college premises around 8:30 am and reached the destination by 10:00 am. The visit started with an introduction about the company and the production process of different components of air conditioning system of a car. The students were taken to the production line. Almost 90% of the assembly is automated. It was observed that all the quality techniques were adopted and followed at the all the production level. There were a number of assembly lines used for assembling various parts of the air conditioning system of the car. The Hanon systems had adapted several safeties and welfare measures such as provision of gloves, helmets and goggles to the workers, face mask and safety shoes for the workers as specified in the PPE (Personal Protection Equipment). In addition with those, they are offering canteen facilities, purified drinking water, and separate restrooms for men and women workers, locker room for women workers, and availability of First aid kit, Doctor and ambulance facility are also offered to the workers. The working days of the employees are 6 days and may extend based on the demand of the customers. The profit margin is 15% at the minimum level. The production of the radiator started with the stamping process where child parts were made and matrix core builder machine combines all the child parts by the use of furnace which is followed by fixing tanks and ends up with quality checking, the most important stage of ensuring quality, and the trademark of the company.

The students reached the college premises around 1:30pm in the afternoon. The students felt the session enriching their practical knowledge in various subjects they



3.

**GUEST LECTURE ON BUSINESS ANALYTICS,  
SUPPLY CHAIN MANAGEMENT & NEW PRODUCT  
DEVELOPMENT.**



A guest lecture on career guidance was held on 22nd January 2020 at ED conference Hall, Department of MBA, St. Joseph's College of Engineering from 9:40 AM to 10.40 AM. The speaker of this guest lecture was Mr. Venkadesh Narayanan The principal consultant at Fhysics Business Consultants Private Limited and President at Product Development and Management Association(India).

He is a mechanical engineer and an MBA with 28 years of experience in New product development, Supply Chain Management, and Process improvement. The guest lecture was organized for the I-year MBA student, around 120 students participated in this guest lecture. The guest speaker was heartily welcomed by Vaishni.V, a student of the MBA department I year. Mr. Venkadesh Narayanan started the careers guidance by explaining 10000 Hours rule "Practicing a specific task or profession that can be accomplished with 20 hours of work a week for 10 years that is in 10000 hours".

He briefed the students about career through MBA and the importance of Supply chain management, Business analysis, New product development. He instructed the step by step process of reaching career goals along with the destination to reach in three levels. He also shared about the certifications that can be done in each field, how to excel in each field along with the best certifications and course providers for the certifications.

He started the lecture with three levels of operation level, tactical level,

4.

### GUEST LECTURE ON YOU THE BRAND



A guest lecture on you the brand was held on 23rd January 2020 at ED conference Hall, Department of MBA, St. Joseph's College of Engineering from 9:40 AM to 11.40 AM. The speaker of this guest lecture was Mr. RakeshGopinathan Corporate trainer who conducts training in various domains of a corporate enterprise including communication and presentation skills. The guest lecture was organized for the I-year MBA student, around 120 students participated in this guest lecture. The guest speaker was heartily welcomed by Subash, a student of the MBA department I year.

Rakesh sir brings close in two decades of exposure in full spectrum of sales, business development, strategic planning and implementation, training and development and operations functions while working with an organization like IBSC India, Desert line project, DULSCO, Tata Capital, Reliance communication, DHL, Aptech learning services, NIIT and PYL.

He explained the drastic change due to technology into the robotic world and also advised students to get highly specialized in their specializations to face the IT world. He instructed students to have a clear vision on goal in their life and briefed about smart goal and how to become a freelancer.

He also explained the pillars of a strong personal brands and steps involved in it. He gave an idea about the opportunities available in marketing and finance streams. He insisted students to do a SWOT analysis to identify the strengths weakness opportunities and threats regarding the career and skills required for it.

He additionally demonstrated 6 steps for building personal brand and framework involved within it. The step by step process of future employment and job opportunities available as personal care aider, number of software developer applications and information security analysts job offers available and also the current demand for human resource specialist.

He motivated the students with the saying "Success seems to be connected with actions; successful people keep moving they make mistakes but they don't quit". The knowledgeable session was completed with a vote of thanks given by Saranya, a student of the MBA department I year.

5.

### Student Achievement



### Student Achievement

Two of our I MBA-A sec students won first prize in Business connection Event on 31 st January 2020, in the Intercollegiate Technical Symposium organized by **PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE, Ponmar, Chennai, ‘ PANCHSHEEL ’ – 2020**. The Winners are **M.Gajalakshmi and B.Nivedha**.

6..

### Staff Achievement




### Staff Achievement

**Dr.Jayasree Krishnan attended Two days IIC Innovation Ambassador Training Series, organized by MHRD & Institution’s Innovation Council on 8<sup>th</sup>&9<sup>th</sup> January.**

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity		
1.	ISA Activity	The ISA – Student chapter had conducted a club activity “INSTROACT” for its members for the academic year 2019-2020 (EVEN Semester) on 28/01/2020.		
		Position No.	Name	Class
		I	P.Pooja J.Selva priya A.Kruthika M.Sangavi M.Mangala Mohana Varshini M.Lubna	II EIE
		II	A.Jelsi Alishiya R.Jeevitha P.Akila R.Deepika B.Haritha	II & III EIE
		III	J.S.Abaranjita P.Atilakshmi Geethapriya Nirupriya	III EIE

Sl. No. Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity
2. Student Workshop	<p><b>A Three day workshop on “ Automation : IOT using Raspberry Pi “</b></p> <p><b>Resource Person : Gemicates Pvt. Ltd</b></p> <p><b>Date : Jan 20 -22 , 2020</b></p> <p><b>Venue: Transducer lab</b></p> <p><b>Participants: III year students</b></p> <p>By doing this IoT workshop students learnt to design a device that can monitor the moisture content of the soil and turn on the water pump automatically whenever the moisture drops below a threshold value. The data about this usage of pump will be sent to the cloud for storage and analysis. This device can also be programmed to send the user an update via email regard to the moisture level changes from a remote location. This IoT workshop is ideal for 3rd year as they learn about micro-processor in their curriculum and will be able to relate the concepts.</p> <p>Students had hands-on experience on the following components,</p> <ol style="list-style-type: none"> <li>1. <b>Soil Moisture Sensor</b> - This will be used to sense the moisture changes in the soil</li> <li>2. <b>Arduino Uno</b> - It will act as the brain of the system and sends voltage to the water pump</li> <li>3. <b>WiFi Module</b> -This will be integrated to the system, so that the user can get updates remotely</li> <li>4. <b>Water Pump</b> -It receives the voltage from Arduino and turn ON/ OFF the water flow</li> </ol>

Sl. No. Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity
<p>3.</p> 	<p><b>Conference Name :</b> The 2020 International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA)</p> <p><b>Participants :</b> 8 third years students</p> <p><b>Mentor:</b> Dr. N Sri Madhava Raja</p> <p><b>Date:</b> Jan 4 to Jan 5 ,2020</p> <p>The conference aims to bring together researchers, scientists, engineers, students and practitioners to exchange and share their theories, methodologies, new ideas, experiences, application in all areas of intelligent computing theories, methodologies and its applications. The theme of FICTA conference series focuses on the domain of intelligent computing theories and the application to Computer and Management sciences. All papers under this conference will be published in <a href="#">Springer, Advances in Intelligent Systems and Computing (AISC) series</a> .</p> <p><b>Award: Best Paper award</b> for a paper titled “Examination of brain MRI slices corrupted with induced noises- A study with SGO algorithm “</p>
<p>4. Publications</p>	<p>“<b>Dr.V.Rajinikanth, Dr.K.Palani Thanaraj, Dr.N.Sri Madhava raja</b>” Published a paper in Pattern recognition letter , Elsevier Titled “Deep learning framework to detect lung abnormality – A study with chest X- Ray and lung CT scan images” <b>Dated January 2020,</b></p>



## DEPARTMENT OF CHEMICAL ENGINEERING

<b>Sl. No.</b>	<b>Photographs Captured During Events (Briefs About the Photographs)</b>	<b>Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating</b>
1	Industrial Visit	The students of second year visited Crimsun Organics Pvt Ltd, Cuddalore on 22.1.20 The students of third year visited Asian Paints Pvt Ltd, Cuddalore on 29.1.20
2	Inplant Training	54 Students from second year had undergone inplant training during vacation and 40 students from third year had undergone inplant training during vacation.
3	Conference	Dr R Baskaran has International Conference on Materials and Biological Researches on 9.1.2020 at kallakurichi.