LICETRONICLES

Septembe 2021

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LOYOLA-ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY NUNGAMBAKKAM, CHENNAI-600034.

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Ms S. A. Josephine HOD, S&H

#MICROPHONE

The Internet of Things

Queueing theory is a branch of Mathematics that deals with the orderly arrangement of persons or things in line. Queues are unavoidable in real-life situations. A good management of queues requires a detailed study of the arrival process, service process, number of servers, capacity of the system. Queues may be due to financial constraints, unavailability of resources or lack of storage capacity. Queues may be witnessed in cafeteria, banks, traffic, computer jobs etc. Hence customers may be either people or jobs and a queue may be a real or virtual queue. A detailed study of the queue helps in the improvement of a wide range of businesses. As a branch of operations research, queueing theory helps in decision making and optimal management of resources in a cost-efficient manner.

An important area where queueing theory most often applied is the field of telecommunications. Digitalisation has led to the analysis of communication systems in discrete time due to the division of time axis into time slots. Hence, discrete time queueing models require special attention in the fields of queueing and communication technology. Communication models are ideal examples of systems that engage different types of queues for their effective performance. In communication system, information needs to be transported between various sources and destinations. And, during the processing of information to be transmitted, queueing activities are encountered.

Wireless Sensor Networks (WSNs) have extensive range of applications in (i) military surveillance – monitoring of activities in the borders, neighbours, battlefield etc. (ii) environment monitoring – forest fire, flood detection etc. (iii) health care assistance – telemonitoring of physiological data, tracking and monitoring of patients and health care assistants and drug administration, and (iv) home automation. A WSN can be seen as a cluster of small power constrained devices with the function of sensing and communicating information. In general, a WSN comprises of a number of sensor nodes spread over a region of space with a sink node which serves as an information collector. Each of these sensor nodes consists of a sensing unit, a radio server and a battery. The sensor nodes collect and despatch information to the sink node. These sensor nodes are deployed in far away, unattended places with size as small as possible, as many of the applications have the need for it. Further, these sensor nodes are equipped with non- rechargeable batteries with limited lifetime. Hence, the challenge is to increase the lifetime of the batteries by a better power management mechanism. Discrete time queues are recently used in power consumption schemes of Wireless Sensor Networks (WSNs).

"GOOD BOOKS, GOOD TEA, AND GOOD COMPANY"

AFRID ARIFF
IT SECOND YEAR

BOOK EW

THE BOOK THIEF

BY MARKUS ZUSAK

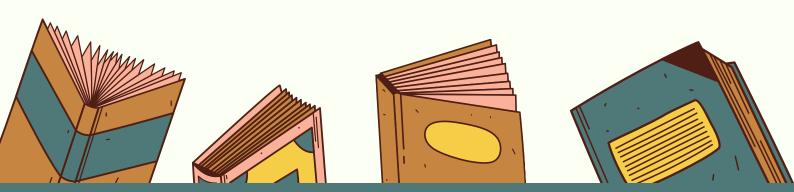
"It is 1939. Nazi Germany. The country is holding its breath. Death has never been busier, and will become busier still."

The Book Thief, much like its synopsis, is a gripping masterpiece. Set in Nazi Germany and narrated by Death himself, it is a poignant story of Liesel Meminger, a foster child who lives in Himmel street with the austere Rosa Hubermann and benevolent Hans Hubermann. Their lives change forever when they begin to shelter Max Vandenburg, the feather-haired Jew in their basement.

The kids in the impoverished streets of Molching steal food, Liesel steals books. Liesel, aged 9, commits her first theft at her younger brother's funeral, before even learning to read. She understands the power words possess, and it is her way of coping with her loss. The story, on one hand, is a coming-of-age tale that follows her journey, punctuated by twelve books. On the other hand, it is a devastatingly powerful portrayal of Nazi Germany from the perspective of a young girl.

What makes The Book Thief, stand out from the other Holocaust novels is that it isn't just a depressingly vivid tale of the horrors of Nazi Germany. Instead, it is one of hope in times of trouble. Featuring an unusual yet compelling narrator in Death, The Book Thief is infused with breathtaking imagery and symbolism. Markus Zusak has a way with words. His writing is lyrical, haunting, poetic, and profound.

The Book Thief is a modern-day classic. With its captivating storytelling and likeable characters, it appeals to a wide range of audience and it is definitely worth a read!







Amongst a hundred billion galaxies and 700 quintillion planets spread across the length and breadth of this incredible universe, lies a tiny blue planet home to currently over 7 billion earthlings. The Big bang created the universe and everything within it, sowing the seeds for the birth of life across the cosmos. We were born from it and so did every other species of life seen across space. From being a single cell to a complexly developed human being with over 37 trillion cells within us, the power of creation is not to be considered lightly.

Women, the indispensable half of the human population, whose stature and importance has always been challenged in comparison to that of men, in spite of being equally important in the equation of life have almost always been subjected to inequality and discrimination in almost all spheres of life regardless of age, race and ethnicity.

Over the course of time, a lot of things have changed and so is the definition of women in the modern world. From Arunima Sinha, the first female amputee to climb Mount Everest to Mary Kom, the first boxer in the history of the AIBA World Championships to win eight medals in the world to Kamala Harris, the first woman of colour to be the Vice President of the United States, the list of achievements donned by the stellar women community all over the globe is endless.

I personally feel that a single day is definitely not enough to appreciate the power of women but nevertheless it gives us an opportunity to bring into light the ever-growing participation of women in the fields once solely reserved to their male counterparts.

That's the precise reason this essay is titled, "Every Day is Women's Day"

To all the women across this tiny blue planet where your struggles define your strength and all your sacrifices contribute towards the betterment of the world gives immense strength and courage to all of us earthlings, and your boundless patience and perseverance teaches us lessons of immense importance in our lives.

To all the women out there, a big thank you from the world, for you've made planet Earth a home.





Reliving History with Unreal Engine 4

Our journey in bringing life to the lost civilization of the Indus Valley

Mily Sona Manohar & Celestine Valan, IV Year CSE



The Backstory - Celestine Valan. M (Environmental Artist)

After 4 years of studying together and gaining knowledge in computer science, it was time to get geared up doing the final year project, applying the knowledge. For this, I teamed up with Mily, my classmate, who's a passionate character designer & aspiring animator. After some brainstorming, we came up with the idea of an open world 3D exploration application set in the Indus Valley during its prime, for educational purposes. The people and their way of life back then must have been so different from the present day. History is often thought of as boring and uninteresting & it was exactly the kind of challenge we needed to shatter that view. So, after discussion, it was decided to recreate the Indus Valley Civilization in the time period of 6 months, the allotted time by the university. When it was realized that it was not possible to do by two us and we needed someone with the technical prowess to carry out this project. That's when Subash joined us with his ever knowledgeable and calm presence. And thus, our project kicked off to a start.

Development of the application

World Design in game development involves creating a world where the characters inhabit and interact with.

Following the creation of a prototype in Blender which is an open-source free 3D software, focus was moved to creating the assets which included the buildings of the city of Mohenjo-Daro. Blueprints of excavations were scoured and historical accounts by archaeologists were read to truly understand the scale of the buildings and the intentions of the builders. Hard surface modelling was used to build the buildings.

Once the assets were modelled, focus was moved to material design. Sample materials were created in Blender (to be used as reference during recreation in Unreal Engine) and UV maps were created to apply the material to the meshes.

The landscape was created and sculpted using the Sculpt & Smooth tool available under landscape mode in Unreal Engine. Water for the river was constructed using the water system plugin in UE 4.26.

The characters were designed within Character Creator 3 by Reallusion. The attire was designed with Marvelous Designer, a 3D cloth simulation tool. And further the props and ornaments were designed in a 3D modelling software, Maya and textured ready for the Unreal Engine within Substance Painter. The characters were fitted with skeletal meshes that are compatible with the UE Mannequin Skeleton.

A particular type of Bull called the Humped Zebu roamed the streets of the Indus Valley Civilization. This was built entirely from scratch using Maya, ZBrush and Substance Painter. Then it was rigged and animated within Blender. Finally, it was added into Unreal Engine with a cart attachment.

Other animals were obtained from Sketchfab and Unreal Engine marketplace and assembled within the game at various locations.

To give life to the characters, we use Artificial Intelligence. Creating AI for characters in Unreal Engine 4 is accomplished through Behavior Tree. It is used to execute branches containing logic, to determine which should be executed. Each leaf node will be a task node that makes the character perform a particular task.

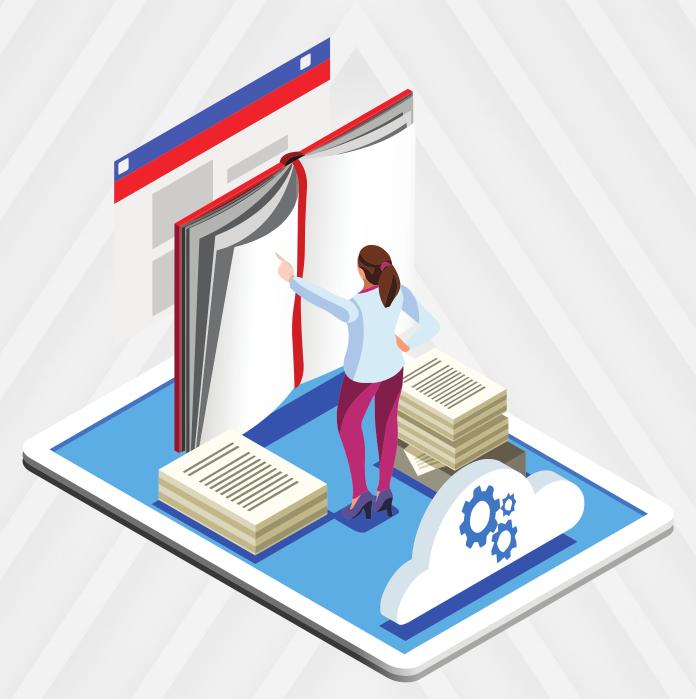
Experiences

We started our project during August 2020, just as when India was coming out of lockdown. However, following COVID-19 guidelines, we were advised to stay at home as much as possible. We knew that it was going to be quite a unique experience, to say the least, as we had to develop a vast open world game, all while being distanced from each other.

We started off with the research phase with each one taking charge of one particular area of game design, one was most proficient in. Celestine took up world design, while Mily, in charge of character design & animation; Subash took care of the Artificial Intelligence & navigation. Once we had an idea of what each one must do, we commenced the work in the month of October 2020.

How to coordinate remotely and build the game had to be learnt using Discord for our regular discussions and bug fixing. Zoom was used when all three had to work together to integrate something. Zoom's remote access tool proved handy. Also, the work could be easily handed over from one person to another using Google's Shared Drive feature. It was difficult at first to coordinate all the work but soon, got the hang of it. Now, working remotely seems to be a real good alternative to traditional way of working.

ACADEMIC EVENTS

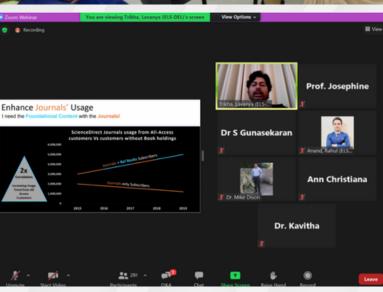








"If I can make it, you too can"









LOYOLA - ICAM

COLLEGE OF ENGINEERING AND TECHNOLOGY (LICET)

Loyola Campus, Nungambakkam, Chennai - 600 034

Approved by AICTE and Permanently affiliated to Anna University All UG Programs are Accredited by NBA



Webinar on

Coding make Easy

by

MR.RAJENDRAN SUBRAMANIAN









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DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

FACULTY ORIENTATION

PROGRAMME - 2021

(iii): @loyolaicam_official

AUG 1st	FDP	Dr.E.Madhavan Pillai, Prof/Mech attended a 5 day online orientation training programme for mentors under National Initiative for Technical Teachers Training conducted by NITTTR Chennai, from 26th to 30th July 2021.
AUG 2nd	ONLINE COURSE	Dr. K Gopalakrishnan, Professor and Head of CSE Department completed an online course in Cloud Computing Fundamentals as part of Google Cloud Computing Foundations.
AUG 2nd	WEBINAR	The Department of Electronics and Communication Engineering organised a webinar on 'Coding Made Easy' by Mr. Rajendran Subramanian, Freelance Technical Trainer Silicon Software Services.
AUG 2nd	INTERNSHIP	Bhrindhya Shree.A.S of III EEE completed her 15 day internship in Industrial Controls and Drives (India) Pvt.Ltd
AUG 3rd	STTP	Ms Vidhya R of the Department of ECE attended a short term training programme on Cognitive Learning Frame work for IoT Devices organised by the Department of ECE,SRMIST,Chennai.
AUG 3rd	FDP	Mr. Chandrasekhar, AP/Mechanical attended an FDP on Social Entreprunership organised by Gujarat Law University from 3rd to 7th Aug 2021
AUG 3rd	FDP	Mr. Marshal Mano, AP/IT attended a Faculty Development Programme on Fundamentals of AI, organized by ICT Academy from 2nd to 6th August 2021.

	AUG 9th	APPRECIATION	FR Sedric of II CSE participated and scored 72/100 in the national level e- Quiz competition on World Biofuel Day 2021, conducted by the Department of BioTechnology in association with the Internal Quality Assurance Cell at Guru Nanak College, Velachery, Chennai.
	AUG 11th	FACULTY ORIENTATION	Mr. Nelson Kulandairaj, CSPO, CSM, PMP, 6 Sigma GB, ITIL(F), Teacher, Toast Master, Geo Head, TechMahindra facilitated a two-hour session on Team building for the faculty members of the Department of Computer Science and Engineering.
	AUG 11th	TEAM BUILDING	The Department of Electronics and Communication Engineering organized a session on Team building for the faculty of ECE. Resource persons are Mr Lawrence David, COGNIKARE, Founder and Director and Mr Nirmal Thomas, COGNIKARE, Training Head.
	AUG 11th	FDP	The Department of Information Technology organized FDP with various sessions. Mr. Clement Rajarathinam, Delivery Executive, Capgemini facilitated session on soft skills, Upskilling Faculty for Industry Demands, by Mr. Rahul Maheshwari, Solutions Engineer-Cloud Architect, Google on 10th August and Team Building by Thulasi Manogaran, CEO of Giant Leap, El Practitioner I CBT Therapist on 11th August 2021.
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	AUG 13th	WEBINAR	A panel discussion followed by interaction with the participants was organised by the Department of Electrical and Electronics Engineering for the school students, under the title Electrifying Young Minds. A group of nine students of the batch 2017-2021 interacted with the participants forming a panel. The panelist shared their experience at LICET and answered the queries of the participants.
	AUG 14th	FACULTY ORIENTATION	Dr. B Renukadevi, NITTTR, Chennai and Ms Usha Krishnan, Systems Director IT Risk Management & Governance- Product Management & Delivery, DTCC, facilitated sessions on Goal setting and Professional Growth for the faculty members of the Department of Computer Science and Engineering.

AUG 14th	ORIENTATION	Department of Science and Humanities organised faculty orientation on Professional Growth. Mr. Antony Nicholas, Freelance Trainer was the resource person.
AUG 15th	AEROTRICZ COMPETITION	Elizabeth Subiksha Victoria participated in AEROTRICZ Competition, on 7th and 15th August 2021 at Kumaraguru College of Technology, Coimbatore.
AUG 15th	ALUMNI MEET	The Department of Information Technology organized virtual Alumni Meet which paved a way for interaction of Alumni of various batches with the faculty and the current students.
AUG 16th	STUDENT ORIENTATION PROGRAMME	Department of CSE organized sessions on Leading through Adversity, facilitated by Mr. Rajiv Chelladurai, Founder, Ergos mind, Planning Your Career Ahead, What Next, a panel discussion and a doubt clarifying session by the students of batch 2021, and a session on How to be an Effective Role Player facilitated by Mr. Benny Theodore, Assistant Vice President Organizational Development, Equity Small Finance Bank Ltd. for the second, third and final year students.
AUG 16th	CODING CONTEST	FR Sedric of II CSE participated in Open Coding Round Contest and is awarded for outstanding performance and exemplary contribution on TechGig.com FR Sedric of II CSE has achieved rank 9873 in Python Easy Test and is awarded for outstanding performance and exemplary contribution on TechGig.com
AUG 16th	ONLINE COURSE	Dr K Gopalakrishnan, Professor and Head of CSE Department completed an online course in Infrastructure in Google Cloud as part of Google Cloud Computing Foundations.

4UG 16th

STUDENT ORIENTATION PROGRAMME

The Department of Electronics and Communication Engineering organized Student Orientation Programme on the theme: Learn, Unlearn and Relearn for II, III and IV year students. Mr.Rajashekar Venkatachalam, Senior Systems Engineer, VMI, a Varex imaging company, delivered a talk on the topic, Next-gen Emerging Technologies. Mr.Karthick Muthukrishnan, Associate Director, Service Delivery, Cognizant, delivered a talk on the topic, Beyond Opportunities.

VUG 16th

STUDENT ORIENTATION PROGRAMME

Student orientation programme for the second, third and final year students of EEE was organized by the Department of Electrical and Electronics Engineering. Dr Rakesh Kumar, Post-Doctoral Researcher at NIT-Trichy, Mr Jose Jayanand, Senior Architect at Robert Bosch Engineering and Business Solutions Ltd, Coimbatore, Mr Narisaman Manivanan, CEO (Retd.) of Petroinfra Engineers Pvt Ltd. and Dr A. Athif Shah, Founder CEO of ABE Groups & Native Guru, Chennai were the resource persons. The sessions created curiosity in core subjects and awareness in the various opportunities for Electrical Engineers especially in Engineering design and Hybrid E-vehicle. Alumni Mr David Deepak of batch 2012-2016/EEE, Ms Sharon Teresa Antony and Lt Siddharth Sankar / 2014-2019 of batch 2014-2018/EEE also addressed the students.

UG 16th

STUDENT ORIENTATION PROGRAMME

The Department of Information Technology organized Student Orientation Programme for II, III and IV year students. Various sessions like Cloud Computing in Virtualized Environment by Mr Akilan Rajendran, Product Lear, Assistant Manager, Origin Learning Pvt., Ltd., Current Market Scenario and Job opportunities for IT Engineers by Mr. Kavin Chandrasekaran, R&D Professional, Safety and Security - BMW Cars and Unlock your Potentials by Dr Paul Susheel, International Life Coach, Founder Director, PS Training Academy were included.

4 UG 16th

STUDENT ORIENTATION PROGRAMME

Department of CSE organized sessions on Leading through Adversity, facilitated by Mr. Rajiv Chelladurai, Founder, Ergos mind, Planning Your Career Ahead, What Next, a panel discussion and a doubt clarifying session by the students of batch 2021, and a session on How to be an Effective Role Player facilitated by Mr. Benny Theodore, Assistant Vice President Organizational Development, Equity Small Finance Bank Ltd. for the second, third and final year students.

10G 17th

ONLINE COURSE

Dr K Gopalakrishnan, Professor and Head of CSE Department completed an online course in Networking and Security in Google Cloud as a part of Google Cloud Computing Foundations.

AUG 17th

ONLINE TRAINING

Samsson R of II IT successfully completed a four week online training on Internship & Job Preparation from Internshala Trainings.

	AUG 17th	ONLINE COURSE	Adhithya S of II IT successfully completed with honours, Programming Foundations with JavaScript, HTML and CSS, an online non-credit course authorized by Duke University and offered through Coursera.
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	AUG 19th	APPRECIATION	FR Sedric of II CSE received appreciation on making it for and being the semi- finalist at TechGig Code Gladiators 2021.
	AUG 19th	WEBINAR	Krithika N of III IT completed certification in AWS Innovate: Data Edition through AWS
	AUG 19th	WEBINAR	LICET NDLI club and the Department of Science and Humanities in collaboration with Elsevier organised a webinar on Improving Research and Performance Outcomes using Science Direct Platform. The resource persons were Mr Lavanya Trikha, Solutions Consultant-Research Reference at Elsevier and Mr Rahul Anand, Account Manager, South & East India at Elsevier.
	AUG 19th	WORKSHOP	Dr.Kavitha AP/Chemistry participated in a three day Science Direct User- Awareness Workshop conducted in collaboration with the Loyola ICAM College of Engineering & Technology on the topic Improving Research & Performance Outcomes Using the ScienceDirect Platform.
	AUG 19th	WORKSHOP	Department of Science and Humanities along with the NDLI Club organised a webinar on Improving Research & Perfomance Outcomes using Science Direct Platform in collabration with ELSEVIER

AUG 19th	FACULTY ORIENTATION PROGRAMME	Department of Science and Humanities organised faculty orientation programme on Team Building and Work Ethics. Mr.llango IRS, Assistant Commissioner of Income Tax, was the resource Person.
AUG 20th	WEBINAR	A webinar titled Demo on Build Your Own Home Theatre was organised by the Department of Electrical and Electronics Engineering for the school students and the public. Mr. Sreeraj, Director - Technical & Operation, EmCog solutions was the resource person.
AUG 22nd	ONLINE COURSE	Dr K Gopalakrishnan, Professor and Head of CSE Department completed an online course in Data, ML, and AI in Google Cloud as part of Google Cloud Computing Foundations.
AUG 23rd	FDP	Dr.Kavitha, AP/Chemistry participated in a 7 day international faculty development programme on Current Technology in Chemistry organized by the Department of Chemistry, Easwari Engineering College, Chennai.
AUG 25th	PAPER PUBLICATION	Dr.I William Christopher Asso. Prof./EEE published a paper titled Arduino Controller Based 3-Switch Isolated DC-DC Boost Converter for PV and Battery Application in Journal of Physics: Conference Series (JPCS), Vol.1979, August 2021, ISSN: 1742-6596. This article is published by IOP Publishing Ltd. which is Scopus indexed.
AUG 25th	TALK	Mr. Regis X, AP/Mech gave a talk on Bibliophile - Developing the Proclivity to Read Books, to the students of LICET, organised by Make a Difference Club.

AUG 26th	WEBINAR	Dr. I William Christopher Asso. Prof./EEE attended a webinar on IEEE Authorship and OA Symposium.
AUG 26th	ONLINE COURSE	Preethi V of III IT successfully completed an online non-credit course authorized by IBM and offered through Coursera.
AUG 27th	WORKSHOP	The Department of Information Technology organized a one day international workshop on Research Publication in Engineering & Technology in collaboration with Elsevier. Faculty from LICET and other colleges attended the workshop.
AUG 27th	FDP	Ms. Viancy V attended a one week Faculty Development Programme on Cyber Security organized by ICT Academy
AUG 27th	ONLINE COURSE	Jane Ruffina Mary of III IT successfully completed Getting Started with Azure DevOps Boards, an online non credit course offered through coursera.
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AUG 28th	FACULTY ORIENTATION PROGRAMME	Faculty orientation Programme for the faculty belonging to the Department of Electrical and Electronics Engineering was conducted. Teaching and non-teaching staff of the department took active participation. Mr. Sateesh Vidhyanandhan, Founder - Indo UK Business Consortium was the invited speaker. Mr. Nirmal and Mr. Lawrence from Cognikare were the trainers for the team building session.
AUG 29th	WEBINAR	Ms. G Annie Nancy AP/EEE participated in the Crystal Jubilee Celebration of Indian Association of Energy Management Professionals (IAEMP)



#PlacementNews

ر	AUG OLII	PRE-PLACEMENT TALK	Pre-placement talk was organized by Mr. Cooper, for the batch 2018-2022.
	AUG / LII	PLACEMENT OFFER	Navin, Arun, Aravind, Sharath from IT, Class of 2021 got placed in YSquare.
VIIC 7+b	AOG / LII	PLACEMENT OFFER	Arathi from CSE, Class of 2021 got placed in Sysvedha.
A110 11+15	AOG LICE	MOCK INTERVIEW	A mock code paring session was arranged by Mr. Mahimai Don Bosco, AP/ECE for the eligible students of 2021 batch, in an effort to prepare for the next round of interview in Expeditors.
	A0G -4	MOCK INTERVIEW	A mock interview was arranged by Mr. Magimai Don Bosco, AP/ECE for the eligible students of 2021 batch, in an effort to prepare for the next round of interview in Expeditors and Madstreet.
A 1 1 7 1 4 1 5		CAREER-A-THON	Career-A-Thon was organized for all the third and final year students. Mr. Vijay PA and Ms. Sharmila Devi, Associate Developers in Expeditors, shared their views on the topic, If We Can Make it You too Can.
14 V 1 V 1 V	A0G 14[CAREER-A-THON	Career-A-Thon was organized for all the students of third and final year. Ms. Mary Sharmila, Backend Engineer in Madstreet, shared her views on the topic, If We Can Make it You too Can.

#PlacementNews

	AUG 16th	PRE-PLACEMENT TALK	Expeditors organized a pre-placement talk for the batch 2018-2022. 88 students from various departments participated in it.
	AUG 17th	MOCK INTERVIEW	Second mock Interview was arranged by Mr. Magimai Don Bosco, AP/ECE for the eligible students of 2021 batch, as a preparatory effort for the next round of interview in Expeditors.
	AUG 23rd	AMCAT ORIENTATION	AMCAT organized a orientation for all the final year students.
4	AUG 26th	PLACEMENT OFFER	Clinton from EEE, Class of 2021 got placed in Renault Nissan.
	AUG 31st	PRE-PLACEMENT TALK	LTI organized a pre placement talk for the batch 2018-2022.
	AUG 31st	PLACEMENT OFFER	Swana from IT, and Krithika from ECE, Class of 2022 got placed in Thought works.
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	AUG 31st	PLACEMENT OFFER	Maurice Britto from CSE and Jayasuriya from ECE, Class of 2022 got placed in Expeditors.



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