Indian Institute of Chemical Engineers

Students' Chapter

School of Chemical and Biotechnology

SASTRA Deemed to be University

Annual Report

(June 2019 - July 2020)

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IIChE Students' Chapter

SASTRA Deemed to be University, Thanjavur

Annual Report for the Academic Year (2019 - 2020)

1. Introduction

1.1 SASTRA

The dreams of its founding fathers took shape in 1984 in the form of Shanmugha College of Engineering which transformed into Shanmugha Arts, Science, Technology and Research Academy (SASTRA). It has carved a niche for itself as a centre of excellence for fostering and developing the body, mind and spirit of its students. The blend of academic excellence and real world experience with moral values has earned a national recognition for the University. A sprawling campus housing a built-up area of over 30,00,000 square feet and a vibrant population of over 10,000 students and over 700 teaching faculty have made SASTRA a landmark in the educational map of India.

SASTRA offers various undergraduate and post graduate courses in Engineering, Science, Education, Management, Law and Arts besides various Doctoral programmes. It has state-of-the-art laboratories, a well-stocked library and one of the best computing facilities. With an ideal teacher-student ratio, it achieves academic excellence through personalized attention. The mechanism was established to support and monitor the student's progress which assures success and satisfaction.

Since its inception, SASTRA has achieved national standing in terms of academic performance, co-curricular and extra-curricular activities and also in its growth and commitment to social service. The standard of excellence of the courses offered in University is reflected in the grades awarded by the National Assessment and Accreditation Council

(NAAC) and in the success of the students indulged in industry and academia, both India & abroad. SASTRA DEEMED TO BE UNIVERSITY has secured 25th rank in engineering and 37th rank in Overall category by the NIRF in the year 2020. SASTRA has been recognized as Category 1 graded institute by the University Grants Commission of the Government of India.

1.2 IIChE Students' Chapter at SASTRA Deemed to be University

The Indian Institute of Chemical Engineers (IIChE) Students' Chapter at SASTRA Deemed to be University was established on 19thJanuary 2011. Under the aegis of the Student's Chapter, various activities such as guest lectures, technical discussions, quizzes and industrial visits are conducted on regular basis. Apart from these, national level events are also being conducted. Prakriya, the national level technical symposium, the first of its kind by the IIChE Students' Chapter was organized in October 2011 and went on to be a huge success. Prakriya had a variety of events such as oral presentation, poster presentation, working model events, guest lecture, quiz, etc. It also had online events like photography and online treasure hunt. Progressing with the time, IIChE Students' Chapter organised its first ever Annual event National Conference on Advances in Processing Engineering (CAPE) in October 2013. With the confluence of guest lectures by eminent persons from academia and industry along with technical presentations, it turned out to be a great success.

National **C**onference on **A**dvances in **P**rocess **E**ngineering (**CAPE**) is the annual event of the SASTRA Students' Chapter of the Indian Institute of Chemical Engineers (IIChE). The objective of this conference is to provide an interdisciplinary forum for researchers and engineers to share and discuss their ideas on the emerging issues in process engineering. The conference focuses on all aspects of process engineering such as process development, manufacturing, and product development. The conference aims to promulgate the knowledge of the most recent advances in understanding the fundamentals and in translating the earned knowledge to specific engineering applications. The conference provides an amicable platform for fruitful interaction amongst young students, research scholars, practicing engineers, academicians and industry delegates through oral and poster presentations. Guest lecturers from eminent scholars of repute, drawn from academia and industry, will serve as an impetus to steer and drive the conglomeration towards knowledge sharing.

We invite graduating young chemical engineers, postgraduate students, and young research scholars to attend the conference and take an active part in the conference deliberations to keep them abreast with the latest in chemical process engineering.

2. Council members for the academic year 2019 – 2020

The council members of the IIChE Students' Chapter for the academic year 2019 - 2020 were as follows,

S. No.	Designation	Name (Year of Study)
1.	Chairperson	Raghul S (IV year)
2.	Co-Chairperson	Ankita Bhat (IV year)
3.	Secretary	Anirudh M (IV year)
4.	Treasurer	Dharani S (IV year)
5.	Joint Secretary	Harini V (IV year)
6.	Joint Treasurer	Hari Prasaadh S (IV year)
7.	Executive Members	Sai Mounica A (IV year) Nanda Kumar G (IV year) Thiyagarajan V (IV year) Lakshmi Prasanna M (III year) Nithin Michael A (III year) Rahul Vishwanathan (III year) Sathmeeka S (III year) Srinivasan S (III year)

3. New initiatives during the academic year 2019 - 2020

The new initiatives undertaken during the academic year 2019 – 2020 were as follows,

1. Knowledge Leadership Forum (KLF) lecture was conducted to promote collaboration with foreign universities and impart knowledge to the students.

2. Alumni G-Meet series were conducted in every weekend which helped the current students to get many key-takeaways from the experience of Alumni.

3. Events such as Decipher, Quizzard were conducted during CAPE for both external and internal participants.

4. A case study event on the Visakhapatnam gas leak accident that occurred in the month of May 2020 was conducted for II and III years as a part of IIChE Students' Chapter-SASTRA Deemed to be University, which gave them a good exposure on knowing about the causes for that particular accident, and safety and hazard analysis that are involved in an industry. In addition to that, the process parameters and the unit operations involved in the production of styrene were also learnt by the participants.

5. A Podcast about Chemical Engineering was introduced in various media platforms like Spotify, Anchor, Apple Podcast, Instagram, YouTube etc.

4. Calendar of activities for the academic year 2019 – 2020

The following activities were conducted during the academic year 2019-2020

- Inaugural day Function – 23rd July 2019
- Engineer's day Function – 24th September 2019
- Workshop on OpenModelica – 29thSeptember 2019
- National Conference on Advances in Process Engineering (CAPE 2019) – 12th and 13th October 2019
- Chapter's day Function – 19th February 2020
- Knowledge Leadership Forum Lecture – 28th February 2020

5. List of Meetings during the academic year 2019-2020

S. No.	Date of Meeting	Agenda	No. of members attended
1	03/07/2019	Discussion on finalizing dates for CAPE and Chapter's Day	14
2	13/07/2019	Discussion about the funds for CAPE and dates for Inaugural Function	14
3	18/07/2019	Discussion regarding arrangements for the CAPE 2019	14
4	28/08/2019	General discussion about the Engineers day and OpenModelica workshop	14
5	10/02/2020	Discussion on Agenda for Chapter's day	10
6	25/02/2020	Discussed on Agenda for KLF Talk	10

6. Summary of Events

6.1 Inauguration of IIChE Students' Chapter 2019 - 2020

The IIChE Students' Chapter at SASTRA Deemed to be University is well known for bringing the students of the Department of Chemical Engineering together to enlighten them with the importance of being a Chemical Engineer and guide them towards being an efficient and versatile engineer.

As one such step, the IIChE Students' Chapter at SASTRA proudly welcomed the new academic year 2019-20 with an inaugural function which was held on 23rd July, 2019 at Nirman Vihar Auditorium, SASTRA Deemed to be University. The Chief Guest for the evening was Mr. Dhasandhan Kumaravel, Senior Operator, Panel IFCC, Al Ghallan Island Operation Team. The function was also officiated by Dr. K. S. Rajan, Dean, SCBT, Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, and many other faculties and students of Chemical Engineering Department.

Mr. Saachin S and Mr. Niketh V of final year hosted the function and it commenced at 15:30 h with the invocation of the almighty which was sung by Ms. Ishwarya S and Ms. Pooja S of third year. This was followed by the Welcome Address delivered by Mr. V. Sai Aditya of final year.

A brief explanation of IIChE Students' Chapter activities at SASTRA was given by Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering to the freshers where he proudly spoke about various awards won by our fellow seniors. Dr. K. S. Rajan, Dean, SCBT, who then took up the dais, went on to insist the importance of professional ethics and commitment in work. He also specially thanked the graduates who made their august presence in the occasion and also asked the fellow students to take up this legacy and lead it in an enhanced way.

The Annual Report of the academic year 2018 - 2019 was released by Mr. S. Raghul of the final year, the newly elected Chairperson of IIChE Students' Chapter. Mr. Rahul Vishwanathan of

third year gave an official introduction of the Chief Guest to the gathering which was then followed by the Chief Guest's talk.

Mr. Dhasandhan Kumaravel shared his experience of his life after graduation which stood as a driving force for his success. His talk was thought provoking and stood as a testimony for the saying "Learning is a never-ending process". He was honored with a memento as a token of love and appreciation by Dr. K. S. Rajan, Dean, SCBT.

The newly elected Council Members of IIChE Students' Chapter for the academic year 2019 - 20 were inducted amidst the gathering. Following this, the ChemUnique team released their first issue of Volume-08 magazine for this academic year.

As an act of gratitude, Vote of Thanks was delivered by Ms. Ankita Bhat of final year. Finally, the program came to an end at 17:30 h with the National Anthem.

6.2 Engineer's Day Event

The Indian Institute of Chemical Engineers (IIChE) Students' Chapter, SASTRA Deemed to be University hosted the Engineer's Day Celebrations on September 24, 2019. It was presided by Dr. K. S. Rajan, Dean, SCBT, Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, SASTRA Deemed to be University and Mr. S. Srinivasan, Executive Member of IIChE Students' Chapter – SASTRA.

The Chief Guest of the evening was Dr. R. S. Saravanan, DST-INSPIRE Faculty Fellow – DST, School of Chemical and Biotechnology, SASTRA Deemed to be University. He is the recipient of 2018 INSPIRE Faculty Fellowship Award, announced by The Department of Science and Technology, Government of India.

Mr. S. Vineeth and Ms. S. Shanmathi of third year were the comperes for the evening. The function was attended by the students and faculty of the Chemical Engineering department. The function began at 15:30 h with an invocation by Ms. Ishwarya S and Ms. Pooja S of third year. Mr. Srinivasan S, Executive Member, IIChE Students' Chapter – SASTRA, delivered his welcome address in which he extended his warm greetings to everyone present at the occasion. He spoke about the achievements of Sir Mokshagundam Visvesvaraya, who is regarded as the first engineer of India, and whose birthday on September 15th is observed as Engineer's Day in India.

Dr. V. Ponnusami, in his address heartily wished all the budding Chemical Engineers a "Happy Engineers Day". It was followed by a talk by Dr. K. S. Rajan, who briefed the students about the various schemes announced by the All India Council for Technical Education (AICTE) and Tamil Nadu government. The students were motivated on hearing the various schemes that would support them financially if they wished to pursue their masters abroad.

Dr. R. S. Saravanan, our alumni, took a few moments to share his experience in SASTRA and how the faculty paved the perfect path for his success. He gave a presentation on "Municipal solid waste management in developing countries - Issues and Opportunities". He peeped out the feeble skills of waste management and their effect on different countries and how engineering came out to be a helping hand. He opened the doors of wisdom by introducing books and websites to the budding

engineers. He sowed the seeds of responsibility with his words, “Now it’s time for you to come up with what the world demands”. A memento was awarded to Dr. R. S. Saravanan as a token of gratitude and appreciation by Dr. V. Ponnusami and Dr. K. S. Rajan. “Chem-E-Quiz” was conducted by the third years which had a good reach among the audience. Ms. Akila of third year delivered the Vote of Thanks. The function concluded at 17:15 h with the National Anthem.

6.3 Workshop on OpenModelica

The Chemical Engineering Department of SASTRA Deemed to be University takes pride in helping the students learn the OpenModelica software. The IIChE Students' Chapter 2019-20, SASTRA Deemed to be University conducted this workshop on 29th September, 2019. OpenModelica is a Free and an Open Source Software that can be used for modelling, simulation, optimization and analysis. It is highly intuitive drag-and-drop interface. With the effort of our Students' Chapter members, more than 100 participants turned up for this workshop.

Dr. P. R. Naren, Associate Professor, Department of Chemical Engineering, School of Chemical and Biotechnology signified this tool which can be used and applied by students of any discipline. He, at first, spoke about our Annual Conference CAPE and also explained about it to the participants. He also talked about the FOSSEE fellowship and emphasized on the Textbook Companion Project (TBC). He showed existing examples using the spoken tutorials available at FOSSEE website which gathered great attention among the participants. The participants were given a few examples to solve by themselves which gave them a basic hands-on experience to handle the software. The participants paid great attention and made themselves clear about the software and well acknowledged the coding structure. The workshop came to an end with the participants receiving their participation certificates from the public relations team.

6.4 National Conference on Advances in Process Engineering (CAPE-2019)

Themes

- Advanced Separation Techniques
- Biochemical Engineering
- Bio-Materials, Material and nanotechnology
- Climate Change/CO_2 Sequestration
- Downstream Processing
- Electrochemical and Fuel Engineering
- Energy and Environmental Engineering
- Food Technology
- Green Technology and Renewable Energy
- Micro Fluids and Micro Reactions
- Petrochemical Processing
- Polymer Science and Technology
- Process Control and Instrumentation
- Process Intensification
- Process Modeling, Simulation and Optimization
- Reaction and Catalysis Engineering
- Safety and Hazard Management
- Transport Phenomena
- Waste Management and Recycle

List of Invited Speakers

- Dr. Abhijit P Deshpande, Professor, Chemical Engineering, IIT Madras.
- Mr. SVR. Krishnan, Executive Director-Operations, Tamil Nadu Newsprint and Paper Limited (TNPL).

Sponsors

- **Company Sponsors**
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    - Avra Synthesis
    - Borosil
    - IOCL
- **Non-Monetary**
    - Green Trends
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    - Superstar Pizza and First Crush
- **Alumni Sponsors**
    - Akash R, B.Tech. Chemical Engineering, 2018
    - Anirudh K, B.Tech. Chemical Engineering, 2017
    - Gokulnath V, B.Tech. Chemical Engineering, 2019
    - Gopinath K, M. Tech. (Integ) Chemical Engineering, 2018
    - Maruti Srivatsan, B.Tech. Chemical Engineering, 2015
    - Pranaav S, B.Tech. Chemical Engineering, 2019
    - Priyanka P U, B.Tech. Chemical Engineering, 2019
    - Sandeep V, B.Tech. Chemical Engineering, 2015
    - Saravanan M, B.Tech. Chemical Engineering, 2001
    - Sravani N, B.Tech. Chemical Engineering, 2018
    - Sukichandran P, B.Tech. Chemical Engineering, 2019
    - Venkataraman N V, B.Tech. Chemical Engineering, 2013
    - Vignesh C S, B.Tech. Chemical Engineering, 2016

Detailed Program Schedule of National Conference on Advances in Process Engineering (CAPE - 2019) 12th and 13th October, 2019

Day-01: 12th October 2019 (Saturday)

Venue: JVC Auditorium

Time	Session	Speaker
7:00 – 9:00 h	Registration	
9:00 – 9:30 h	Inauguration	
9:30 – 10:30 h	Plenary Lecture	Prof. Abhijit P Deshpande, Department of Chemical Engineering, IIT Madras Title: Optimizing Microstructure for Products and Processing.
10:30 – 11:00 h	High Tea	

Day - 02: 13th October 2019 (Sunday)

Venue: JVC Auditorium

Time	Session	Speaker
07:30 – 9:00 h	Registration	
09:00 – 10:00 h	Invited Lecture -1	Mr. SVR. Krishnan, Tamil Nadu Newsprint and Paper limited. (TNPL)
10:00 – 10:30 h	High Tea	
10:30 – 12:30 h	Paper Presentation	
12:30 – 13:00 h	Valediction	
13:15 – 14:30 h	Lunch	
14:30 – 16:00 h	Technical Event: Quizzard & Decipher	
16:00 – 16:15 h	High Tea	
17:30 – 18:00 h	Prize Distribute for Technical Events	
18:00 – 18:15 h	Vote of Thanks	

The seventh edition of National **C**onference on **A**dvances in **P**rocess **E**ngineering (CAPE) was held on October 12th and 13th, 2019. CAPE is the annual event of **I**ndian **I**nstitute of **Ch**emical **E**ngineers (IIChE) Students' Chapter of SASTRA Deemed to be University.

DAY – 01

The seventh edition of National **C**onference on **A**dvances in **P**rocess **E**ngineering (CAPE) was held on October 12 and 13, 2019. CAPE is the annual event of the **I**ndian **I**nstitute of **Ch**emical **E**ngineers (IIChE) Students' Chapter, SASTRA Deemed to be University.

The conference commenced with escorting the dignitaries on the dais followed by an invocation and lighting of the lamp. Mr. M. Anirudh, Secretary, IIChE Students' Chapter, SASTRA Deemed to be University, extended a warm welcome to the gathering. Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, in his address talked about how CAPE has been growing ever since its inception. The Chief Guest for the day was Dr. Abhijith P Deshpande, Professor, Chemical Engineering, IIT Madras. The Volume-08, Issue-02 of ChemUnique magazine was released by the Editorial Board.

Dr. Abhijith P Deshpande delivered the Plenary Lecture. This talk was based on the topic "Optimizing microstructure for products and processing." The talk began with a briefing on microstructures, how it is obtained and its applications in the present day world. He spoke about various factors that controlled the production of microstructure and how altering these factors could produce significant changes for optimizing the microstructure.

Post the lecture, the students asked many questions and made the lecture more interactive. It was great and subtle learning experience. The day ended with vote of thanks and high tea.

DAY – 02

The second day of the conference began with the lecture by Mr. SVR. Krishnan, Executive Director-Operations, Tamil Nadu Newsprint and Paper Limited. He shared his work life experiences to make the students understand the importance of chemical engineers in an industry. He also briefed about instrumentation and the need to keep updated about the technology being used in industries. Answering to various doubts raised by the students, he emphasized on the need for chemical engineering students to choose core chemical industries over other industries.

Post the lecture, oral and poster presentation events were conducted by the technical team. This year saw the most number of external participants from colleges all over Tamil Nadu participated in the oral presentation event. Other events like Quizzard and Decipher were also conducted successfully by the technical team. These events saw a good turnout of internal and external participants attended with lot of enthusiasm and competitive spirit.

The Chemical Engineering Department of SASTRA has a strong bonding across the batches. The alumni connect video served as a testimony to the aforementioned statement. Alumni members across the batches made a small video sharing their experience of CAPE and their learning outcomes from the same. A small compilation of all these videos was played during CAPE. Students were inspired from the experiences and it instilled a sense of nostalgia to the faculties as well.

The Valedictory Ceremony was held and the prizes were distributed. The Vote of Thanks was delivered and thus, this two day extravaganza ended on a high note.

6.5 Chapter's Day Function

The Indian Institute of Chemical Engineers (IIChE) Students' Chapter of SASTRA Deemed to be University conducted its Chapter's Day Celebrations on 19th February, 2020. It was presided by Dr. P. R. Naren, Associate Professor, Department of Chemical Engineering, School of Chemical and Biotechnology, SASTRA Deemed to be University; and Mr. S. Raghul, Chairperson of the IIChE SASTRA Students' Chapter.

The Chief Guests for the function were Mr. N. S. Edwin Jenson, Director, Chemsys Innovative Solutions Private Limited and Mr. Varun Ayyathurai, Process Engineer, Chemsys Process Engineering Private Limited.

Ms. B. Himajaa Reddy, third year and Mr. A. B. Dharaneesh, second year were the comperes of the evening and the function was attended by students and faculty of the Chemical Engineering department.

The function began at 15:30 h with an invocation song by Ms. S. Pooja and Ms. S. Ishwarya of third year. Chairperson Mr. S. Raghul welcomed the Chief guests and the gathering. He spoke about the evolution of IIChE Students' Chapter over the years and urged the students and the present members of the chapter to carry forward the legacy.

The dignitaries of the day accompanied by Dr. P. R. Naren, and the Editorial Team of ChemUnique consisting of Mr. S. Srinivasan, Ms. S. Sathmeeka, Mr. Roshan Shahid Zubair ZM, Ms. G. Sindhuja and Mr. L. R. Vignesh released the Volume-08, Issue-03 of ChemUnique, magazine.

The chief guest of the function gave a brief talk on the importance of Process simulation as an inseparable component of process engineering. He initiated his talk with the evolution and importance of Chemsys in the field of Process simulation. Further, he elucidated the need for

process simulation tools and software, citing various limitations of practical modeling and design. Using ASPEN HYSYS as a tool, he explained how property evaluation, process development, optimization and process selection could be effectively done within a short span of time.

Mr. Varun Ayyathurai gave insights about his journey from college and what made him pursue his job in chemical engineering domain. The chief guests were felicitated with a memento as token of gratitude by Dr. P. R. Naren, ACP, SCBT.

Mr. Rahul Viswanathan of third year delivered the Vote of Thanks. The function concluded at 17:00 h with the National Anthem.

6.6 Knowledge Leadership Forum Lecture

The Indian Institute of Chemical Engineers (IIChE) Students' Chapter of SASTRA Deemed to be University organized a Knowledge Leadership Forum Lecture (KLF) on 28th February, 2020. It was officiated by Dr. V. Ponnusami, Associate Dean, Chemical Engineering, School of Chemical and Biotechnology, SASTRA Deemed to be University and Mr. S. Raghul, Chairperson of the IIChE SASTRA Students' Chapter. The KLF lecture was delivered by Dr. Kumar Patchigola, Senior Lecturer, School of Water, Energy and Environment, Cranfield University, England.

Mr. A. B. Dharaneesh compered the proceedings of the evening and the function was attended by students and faculty of the Chemical Engineering department. The function began at 15:30 h with an invocation song by Ms. S. Pooja and Ms. S. Ishwarya of third year. Mr. V. Sai Aditya of final year welcomed the gathering officially. A brief introduction about the lecturer was given by Ms. N. Suprajha of second year and Dr. Kumar Patchigola was accorded a bouquet by Dr. V. Ponnusami. He, then proceeded to give the KLF talk on the streaming projects, the research pathways, and on opportunities open for Indian students in the Cranfield University. He also discussed about the ongoing projects on increasing efficiency of conventional power plants. As a token of gratitude and appreciation, he was facilitated with a memento by Dr. S. Rangabhashiyam, AP- III, SCBT, SASTRA. Mr. Rahul Viswanathan of third year delivered the Vote of Thanks. The function concluded at 17:00 h with the National Anthem.

6.7 Alumni G-Meets and Podcast Channel

Alumni G-Meets:

The lockdown due to the corona virus pandemic did have an impact on the academic institutions across the world and to a large extent on our daily life. In this global mayhem, the IIChE Students' Chapter, SASTRA Deemed to be University rose to tap the untapped potential, performing best in these challenging times. This pandemic did not hinder the ever-connected chemical engineering fraternity from losing communication. In fact, this period gave a better way to bring the alumni members in connection with the present batches.

Alumni Google Meet series was organized, with alumni members involving themselves voluntarily to share their experiences, their journey and the hurdles they have passed on. A question and answer session was also carried out in order to clarify all the doubts & fears of the students in a friendly manner. It was hosted and organized by Dr. P. R. Naren, Coordinator, IIChE Students' Chapter, SASTRA. Twenty alumni members have so far addressed on the Alumni G-meet series. All the twenty members had versatile experiences of life after their graduation from SASTRA. For instance, one alumnus had shared about the scope for women in core chemical engineering field, while another spoke about the job of a chemical engineer in an automobile industry. There was also an alumnus who had ended up in a non-core job and shared his perspective of life moving away from core. Students who are desirous of pursuing higher studies had virtual treats from the alumni members who shared their experiences pursuing higher studies in India & abroad and gave valuable inputs on the application process. Two of the alumni also spoke about how their experiences and values learnt in the undergraduate life helped them to shape their career in non-core sectors. The alumni members emphasized on the value they had acquired through these experiences and educated the current students on how to tackle uncertainties thereby inculcating. The alumni Google meet series were recorded and made available in the IIChE Students' Chapter YouTube Channel at

https://www.youtube.com/playlist?reload=9&list=PLoqn1FfMiaBRPsqmbvTj7YkaKfzm4f_CL

Podcast Channel:

The IIChE Students' Chapter of SASTRA entered into a whole new world of streaming and media platform in a different dimension. A Podcast series named "ChemUnique" by IIChESChap SASTRA was introduced on 23rd June, 2020. The Podcast talks about Chemical Engineering and it's applications in real life happenings.

6.8 Case Study Event on Vizag Gas Leak

IIChE Student's Chapter SASTRA broke new grounds of adroit hunt through Vizag Gas Leak Case Study event. Student members of the Chapter were given a golden opportunity to step out of the curriculum and heed hard news.

Vizag Gas Leak Case Study event broke pandemic dormancy by shedding light on the role of Safety practices in process industry. The case study was based on styrene gas leak accident that occurred at the LG Polymers chemical plant, Visakhapatnam. Event urged the second and third year students to come up with a detailed case study, wide spread to 7 aspects - Background of the accident, LG Polymers, Technical questions, Safety and hazard analysis, Environmental and Health impact, Humanitarian and Legal perspectives and Perspective as an Undergraduate Chemical Engineer. Five teams from second year and four teams from third year B. Tech. Chemical Engineering, cumulating nine teams participated in Vizag Gas Leak Case Study event.

Case Study reports were evaluated by the expert faculty team consisting of Dr. Gautham B. Jegadeesan, SAP, SCBT and Dr. S. Rangabhashiyam, AP-III, SCBT. Review team expressed their immense contentment in the quality of each report of nine teams and declared worthy to receive a certificate of appreciation. In view of distinctive contributions, the team comprising Akila K and Srinivasan S of third year and the team comprising Rajshree R and Aniruddh Mukunth of second year, were awarded first prize. The team comprising Bhamidipati Lalitha Sree and Pooja S of third year and Vengdhanathan S of second year secured second prize. Certificate of appreciation was awarded to all the participants. Second years received a special mention for outshining their non-exposure to a safety course. Demonstration of technical skills acquired through safety courses by third years brought good attention.

6.9 IIChE Online Summer Internship Programme

The COVID-19 Pandemic had introduced a lot of changes in the conventionally followed lifestyle. The IIChE Kolkata Summer Internship was one of these changes. Owing to the difficulty for the students to do an on-site summer internship during the pandemic times, the All India Council for Technical Education (AICTE) advised students to opt for an online summer training as an alternative option. In view of this, IIChE Kolkata decided to provide an online summer training for students on various topics related to the chemical engineering curriculum such as Process Safety Management (PSM), Petroleum Refinery Engineering, Petrochemical Engineering, Chemical Process Technology, Zero Liquid Discharge Management (ZLD), Six-Sigma Training, and Biochemical Process Plant. It was a paid online internship for duration of 4 weeks. The online training was provided by eminent experts from the different esteemed industry along with the organizational members of the IIChE. A panel was formed for this internship that spanned over people from around 55 industries and 42 institutes. The eminent experts engaged with the students to provide online summer training. The mode of online training comprised of various activities such as webinar discussion, assignments, problem-solving, report writing, and finally, the students were graded in accordance with these parameters. Further, it was split into 3 batches in order to accommodate a good deal of students.

About 36 students, comprising of the previous II and III year students registered from SASTRA Deemed to be University, opting for various disciplines of their choice, under various batches. The names and the streams that were chosen are as follows:

S. No.	Name	Year of Study	Stream
1.	Ishwarya S	III	Biochemical Process Plant
2.	Jeffery Ambroise D	II	Biochemical Process Plant
3.	Lakshmi Priya A	II	Biochemical Process Plant
4.	Logeswari S	III	Biochemical Process Plant
5.	Maddipati Lakshmi Prasanna	III	Biochemical Process Plant
6.	Pooja S	III	Biochemical Process Plant
7.	Sivasankaran R	II	Biochemical Process Plant
8.	SnehaSenthil Kumar	II	Biochemical Process Plant
9.	Vidhyambigai C	II	Biochemical Process Plant
10.	BhumireddyHimajaa Reddy	III	Chemical Process Technology
11.	Raghavendra B Iyer	II	Chemical Process Technology
12.	Suprajha N	II	Chemical Process Technology
13.	Tammana Viswanth	III	Chemical Process Technology
14.	Chinnabathina Sandeep	III	Petrochemical Engineering
15.	Dharaneesh A B	II	Petrochemical Engineering
16.	Iswerya A D	II	Petrochemical Engineering
17.	Vengdhanathan S	II	Petrochemical Engineering
18.	Abhishek G	III	Petroleum Refinery Engineering
19.	AvulaPavan Kumar Reddy	II	Petroleum Refinery Engineering
20.	Charan M R	III	Petroleum Refinery Engineering
21.	GullapalliAdithya	III	Petroleum Refinery Engineering
22.	Harish T	II	Petroleum Refinery Engineering
23.	Kumaran Nagappan K	III	Petroleum Refinery Engineering
24.	Narra Mohan Krishna	III	Petroleum Refinery Engineering
25.	Rahul Vishwanathan	III	Petroleum Refinery Engineering
26.	Amarnaath T M	III	Process Safety Management
27.	Akash S	II	Six-Sigma Training
28.	Aniruddh Mukunth	II	Six-Sigma Training
29.	Kalaivanan S A	III	Six-Sigma Training
30.	Raj Shree R	II	Six-Sigma Training
31.	Rupesh K J	II	Six-Sigma Training
32.	Sathmeeka S	III	Six-Sigma Training
33.	Vineeth S	III	Six-Sigma Training
34.	Akila K	III	Zero Discharge Liquid Management
35.	Srinivasan S	III	Zero Discharge Liquid Management
36.	Srivatsa Varadarajan	II	Zero Discharge Liquid Management

This internship was a great success despite being the first of its kind. The students felt that it was a great experience in doing the online internship during pandemic lockdown period. They were

happy that they had the leverage to acquire the technical and industrial knowledge with ease while being at home. Despite the internship being online, a lot of students were highly motivated to watch the subsequent lectures and they felt it had to do with how well the course plan was structured. Overall they felt that it was an experience that they would cherish for the rest of their life.

6.10 Talent recognition of Students for events other than IIChE

The IIChE Students' Chapter of SASTRA takes pride and immense pleasure in recognising the students of chemical engineering who have participated and won prizes in various cultural, sports and technical events during academic year 2019-2020.

The details of the students and events are mentioned below:

In-house

Cultural Event:

- Divyesh A- 121002011- Tamil Street Play (Carpediem)- 1st Prize
- Divyesh A- 121002011- Tamil Theatre (Carpediem)- 2nd Prize
- Shanmathi S- 121002044- Tamil Theatre (Carpediem) 1st Prize
- Tammana Viswanth- 121002047- Dual Dance (Carpediem)- 1st Prize
- Tammana Viswanth- 1201002047- Group Dance (Cerpdiem)- 1st Prize

Sports Event:

- Anirudh M- 120002007- Snooker (Fuera)- 1st Prize
- Sathish Kumar S- 120002054- Snooker (Fuera)- 1st Prize
- Akila K-121002002- Carrom Board (Fuera)- 2nd Prize
- Amarnaath T M- 121002003- 5000 mts (Fuera)- 3rd Prize
- Amarnaath T M- 121002003- 1500 mts (Fuera)- 3rd Prize
- Charan M R- 121002007- Basketball (Colosseum)- 3rd Prize

Technical Event:

- Hanuk Kumar- 122002029- Boat Modelling (Sakshma)- 1st Prize
- Pavansai Kodali- 122002031- Flow Control (Sakshma)- 1st Prize
- Srikar P- 122002032- Boat Modelling (Sakshma)- 1st Prize

External

Cultural Event:

- Anirudh M- 120002007- DumbC- Government College of Technology- 2nd Prize
- Anirudh M- 120002007- Mime- SSN College of Engineering- 2nd Prize
- Venkat Raman R- 120002061- Extempore- NIT Trichy- 1st Prize
- Vishwaksenan S- 120002065- Adzap- SSN College of Engineering- 1st Prize
- Vishwaksenan S- 120002065- Channel Surfing- SSN College of Engineering- 1st Prize
- Vishwaksenan S- 120002065- Mime- Government College of Technology- 2nd Prize

- Vishwaksenan S-120002065- Solo Singing- Government College of Technology-1st Prize
- Vishwaksenan S- 120002065- Tamil Crossword- SSN College of Engineering- 1st Prize

Sports Event:

- Amarnaath T M- 121002003- Sketchers Performance Chennai Marathon 2020- Participation

7. Details on Awards and Research Publications by Students

I. Award for Best Design Project

Mr. Pranaav S, 2019 B. Tech. Chemical Engineering graduate was awarded the 2019 Indian Institute of Chemical Engineers (IIChE) Ambuja's Best Home Paper or Design Project Report Award. Mr. Pranaav S secured First Prize in this category for his project titled "Process development for the production of 10 TPD of propylene glycol methyl ether acetate" and was guided by Dr. P. R. Naren, Associate Professor, School of Chemical and Biotechnology, SASTRA Deemed to be University.

Ms. Sahaja G, 2019 B. Tech. Chemical Engineering graduate was awarded the 2019 Indian Institute of Chemical Engineers (IIChE) Ambuja's Best Home Paper or Design Project Report Award. Ms. Sahaja G secured Second Prize in this category for his project titled "Reduction in mercury based chemical used in modified West and Gaeke method of atmospheric Sulphur dioxide determination" and was guided by Dr. S. K. Goyal, CSIR-NEERI Delhi Zonal Lab, Delhi.

Ms. Sandhiya T, 2019 B. Tech. Chemical Engineering graduate was awarded the 2019 Indian Institute of Chemical Engineers (IIChE) Acharya P C Ray Award for the Best Home Report Award. Ms. Sandhiya T secured First Prize in this category for his project titled "Solvent sorption and mechanical/dielectric properties of polymeric pressboard composites" and was guided by Dr Abhijit P.Deshpande, Professor, Chemical Engineering, IIT-Madras.

II. Research Publications by Students

- Gautham B. Jegadeesan, **S. Rohith, K. Kishore Ramanan**, N. Santosh Srinivas. Fe-Ni-Doped Graphene Oxide for Uranium Removal—Kinetics and Equilibrium Studies, Water, Air, & Soil Pollution, Available online 15 August 2020
  - doi: https://doi.org/10.1007/s11270-020-04804-7
  - S. Rohith, K. Kishore Ramanan graduated from M. Tech (5 yr. Integrated) Chemical Engineering in May 2020. They worked as part of their 10^{th} Semester M. Tech Chemical Engineering project in the above work.

- Gautham B. Jegadeesan, K. Srimathi, N. Santhosh Srinivas, **S. Manish Kanna, D. Vignesh**. Green synthesis of iron oxide nanoparticles using *Terminalia Bellirica* and *Moringa Oleifera* fruit and life extracts: Antioxidant, antibacterial and thermocoustic properties, Available online 23 September 2019
  - doi: https://doi.org/10/1016/j.bcab.2019.101354
  - S. Manish Kanna, D. Vignesh graduated from B. Tech Chemical Engineering in May 2020. They worked as part of their 7th Semester B. Tech Chemical Engineering mini project in the above work.

III. Oral Presentation by Undergraduate Students

S.No	Students (Reg No.)	Title	Conference Name	Date	College/ University
1.	Anirudh M (120002007) Vishwaksenan S (120002065)	Effect of Channel Diameter on Flow Through Parallel Channel Manifolds	Advances in Chemical Engineering –2020	5 – 7 Feb, 2020	University of Petroleum and Energy Sciences (UPES), Dehradun
2.	Arrthy R (120002009) Dharani S (120002016) Madhangi R (120002033)	Mixing Time Studies in External-Loop Air-Lift Contactor	Advances in Chemical Engineering –2020	5 – 7 Feb, 2020	University of Petroleum and Energy Sciences (UPES), Dehradun
3	Mohanraj M (120002038) Thiyagarajan V (120002059) Vigneshwar U (120002064)	Quantification of Mixing in Gas-Solid Fluidized Bed using Image Analysis Toolbox of Scilab	Recent Advancements in Chemical, Energy and Environmental Engineering (RACEEE 2020)	13 – 14 Feb 2020	Sri Sivasubramaniya Nadar (SSN) College of Engineering, Chennai

8. Details on Academic activities by Students at Premier Institutes and Online Platforms

I. Projects undertaken by Students at Premier Institutes

Register No.	Name	Guide	Title
120002008	Ankita Bhat	Mr. Sadhasivam M Sr. Manager JSW Steel Ltd. Mecheri, Salem Email: sadhasivam.muthusamy@jsw.in	Removal of zno from blast furnace flue dust
120002009	Arrthy R	Dr. Preeti Aghalayam Professor Chemical Engineering NAC 454, New Academic Complex, IIT Madras Chennai- 600036 Email : preeti@iitm.ac.in	Kinetic modelling of methanol synthesis
120002021	Hariharan A	Prof.Sanjeev Kumar Gupta Professor Department of Chemical Engineering Indian Institute of Science Bangalore. Email:sanjeev@iisc.ac.in	Modelling of Dendrimer Encapsulated Nanoparticles.

Register No.	Name	Guide	Title
120002022 120002038	Harini V Mohanraj M	Dr.Raghunathan Rengasamy Professor Department of Chemical Engineering, IIT Madras, Chennai-600036 raghur@iitm.ac.in	Performance evaluation of cylindrical proton exchange membrane fuel cells.
120002028	Keerthi vasan M	Dr. Rajdip Bandyopadhyaya Professor Room No. 115 (Colloids and Nanomaterials Lab.) Chemical Engg. Dept. Indian Institute of Technology Bombay Powai, Mumbai 400 076 India http://www.che.iitb.ac.in/online/faculty/rajdip-bandyopadhyaya email: rajdip@che.iitb.ac.in	On-spot detection of fluoride in water using a field-ready prototype
120002034 120002054	S Manish Kanna Sathish Kumar S	Dr. Abhijit.P.Deshpande Professor, Department of Chemical Engineering, Indian Institute of Technology Madras. Chennai-600036. E.Mail: abhijit@iitm.ac.in	A study on the comparison of techno-economic analysis for different biomass utilization pathways

Register No.	Name	Guide	Title
120002039	Nanda Kumar G	Dr. Abhijit.P.Deshpande Professor, Department of Chemical Engineering, IIT Madras Email: abhijit@iitm.ac.in	Hybrid lattice boltzmann method for simulation of flow of viscoelastic fluids
120002059	Thiyagarajan V	Dr. S Pushpavanam Institute chair Professor Chemical engineering department E-mail: spush@iitm.ac.in	Heat recovery from blast furnace slag using moving bed heat exchanger
120002060	Varshan Kumar S	Dr. Venugopal S, Associate Professor, Department of Chemical Engineering, IISc Bangalore, Bangalore-560012, venu.iisc@gmail.com	Fabrication of flexible electrode for pemfc using inkjetprinting.
120002064	Vigneshwar U	Dr. Pushpavanam S Institute Chair Professor Chemical Engineering Department I.I.T Madras 600036 India URL :http://www.che.iitm.ac.in/~spush	Bench scale demonstration plant to recover valuable metals from waste Printed circuit boards using hydrometallurgy

Register No.	Name	Guide	Title
120002061	Venkat Raman R	Dr. Sachin Velankar Associate Professor Chemical and Petroleum Engineering Department Swanson School of Engineering, University of Pittsburgh Benedum Hall, 3700 O'Hara Street, Pittsburgh, PA 15261, USA Email: velankar@pitt.edu	Isothermal Crystallization Kinetics of Polyoxacyclobutane-Water Mixtures
120002067	Y. Lalith Sumanth	Dr Magdalena Regel Rosocka Associate Professor Faculty of Chemical technology Poznan University of technology Poland Email:magdalena.regel-rosocka@put.poznan.pl	Metal recovery from e-waste with organic compounds (ionic liquids, lactic acid)

II. SWAYAM / MOOC / GIAN / Workshop attended by students

The following are the courses pursued by the Chemical Engineering students of SASTRA during the academic year 2019-20. These are additional courses that the students have pursued outside the curriculum scheme to equip themselves with difference aspects of Chemical Engineering.

S. No	Reg No.	Name	Course Type	Course Title	Institute	Date
1.	122002002	Akash S	Careerlabs	Equipment and system engineering with CATIA V5	Career labs	04-Apr-2020 to 05-Jun-2020
2.	122002002	Akash S	Coursera	Oil & Gas Industry operations and markets	Yale	01-July-2020 to 13-July-2020
3.	122002014	Iswerya A D	Coursera	Nanotechnology: A maker's course	Duke University, NC State University, The University of North Carolina at Chapel Hill.	30-Jun-2020 to 31-Aug-2020
4.	121002026	Kumaran Nagappan K	Coursera	Marketing Analytics	University of Virginia	10-Apr-2020 to 21-Apr-2020
5.	121002026	Kumaran Nagappan K	Coursera	Introduction to Programming with MATLAB	Vanderbilt University	25-Apr-2020 to 11-May-2020
6.	122002044	Srivatsa Varadarajan	Coursera	Data Analysis with Python	IBM	08-July-2020 to 24-July-2020
7.	122002044	Srivatsa Varadarajan	Coursera	Financial Markets	Yale University	08-Aug-2020 to 26-Aug-2020

S. No	Reg No.	Name	Course Type	Course Title	Institute	Date
8.	122002048	L. R. Vignesh	Coursera	Nanotechnology: A maker's course	Duke University, NC State University, The University of North Carolina at Chapel Hill.	01-July-2020 to 02-July-2020
9.	122002048	L. R. Vignesh	Coursera	Programming for Everybody (Getting Started with Python)	University of Michigan	01-July-2020 to 26-July-2020
10.	122002002	Akash S	EDST e-learning	Design Engineer SolidWorks	Careerlabs	04-Jun-2020 to 29-Aug-2020
11.	120002066	Sreekar Gundumalla	GIAN	Efficient Heat Transfer Utilizing Liquid/Vapor Phase Change. (An Introduction to Science and Technology of Heat Pipes and Closed Two-Phase Thermosyphons)	IIT Madras	09-Dec-2019 to 21-Dec-2019
12.	120002016	Dharani S	NPTEL	Technologies for Clean and Renewable Energy Production.	IIT Roorkee	July-2019 to Sep-2019
13.	122002014	Iswerya A D	NPTEL	Infrared spectroscopy for pollution monitoring	IISc Bangalore	July-2019 to Aug-2019

S. No	Reg No.	Name	Course Type	Course Title	Institute	Date
14.	120002033	Madhangi R	NPTEL	Heat Transfer	IIT Kharagpur	July-2019 to Oct-2019
15.	120002021	Hariharan A	Swayam	Non-Conventional Energy Resources	IIT Madras	24-Jan-2020 to 14-Apr-2020
16.	120002021	Hariharan A	Swayam	Intellectual Property	IIT Madras	27-Jan-2020 to 18-Apr-2020
17.	120002028	Keerthi vasan M	Swayam	Social Networks	IIT - Madras	01-Jan-2020 to 01-Apr-2020
18.	120002066	Sreekar Gundumalla	Swayam	Operations Research	IIT Roorkee	29-July-2019 to 20-Sep-2019
19.	120002066	Sreekar Gundumalla	Swayam	Two-Phase Flow with Phase Change in Conventional and Miniature Channels	IIT Guwahati	26-Aug-2019 to 20-Sep-2019
20.	120002066	Sreekar Gundumalla	Swayam	Chemical Process Intensification	IIT Guwahati	29-July-2019 to 17-July-2019
21.	120002066	Sreekar Gundumalla	Swayam	State and Local Governance: Machinery and Processes	UGC-Kurukshetra University	15-July-2019 to 08-Nov-2019
22.	120002066	Sreekar Gundumalla	Swayam	Computer Aided Applied Single Objective Optimization	IIT Guwahati	27-Jan-2020 to 20-Mar-2020
23.	120002066	Sreekar Gundumalla	Swayam	Multiphase Flows	IIT Guwahati	27-Jan-2020 to 20-Mar-2020
24.	120002007	Anirudh M	Training	Predictive Data Analysis using Python	GITAA Pvt. Ltd. (IIT-M)	20-May-2019 to 25-May-2019

S. No	Reg No.	Name	Course Type	Course Title	Institute	Date
25.	120002016	Dharani S	Training	Online training program on CFD	FluiDimensions	01-July-2020 to 30-July-2020
26.	120002032	Lokesh J Pandya	Training	Predictive Data Analysis using Python	GITAA Pvt. Ltd. (IIT-M)	20-May-2019 to 25-May-2019
27.	120002032	Lokesh J Pandya	Training	Online CFD Training course	FluiDimensions	01-July-2020 to 30-July-2020
28.	120002033	Madhangi R	Training	Online training program on CFD	FluiDimensions	01-July-2020 to 30-July-2020
29.	121002057	Raj Shree R	Training	Online training course on CFD	FluiDimensions	01-July-2020 to 30-July-2020
30.	120002066	Sreekar Gundumalla	Training	Online Training Course on CFD Basics	FluiDimensions	01-July-2020 to 30-July-2020
31.	120002028	Keerthi vasan M	Workshop	Application of Computational Fluid Dynamics Techniques in Heat Transfer and Energy Systems	Institution of Engineers (INDIA) - Tiruchirappalli local center	28-Jun-2019 – 28-Jun-2019
32.	120002028	Keerthi vasan M	Workshop	Hands-on workshop on LATEX: writing, publishing and presenting	IIT- Bombay	01-Mar-2020
33.	120002066	Sreekar Gundumalla	Workshop	Application of computational fluid dynamics techniques in Heat Transfer and energy systems.	NIT Tiruchirappalli	28-Jun-2020 to 29-Jun-2020

9. ChemUnique – The Department Magazine

The ChemUnique magazine of the department was conceptualized by the students and launched in April 2014. The magazine is a student initiative and it aims to keep fellow student members abreast of the latest advances in Chemical Engineering.

In this academic year the magazine team has brought out three issues of Volume-08 of ChemUnique Magazine.

E-copies of the magazine can be found at:
https://sites.google.com/a/sastra.ac.in/iicheschap/chemunique-magazine

ChemUnique, being a part of the IIChE Student Chapter since the academic year 2013-2014 has been steadily progressing by releasing editions. The Volume-08 Issue-01 was released during the inaugural function of the IIChE Students' Chapter held on 23rd July 2019, Issue-02 was released during first day of the National Level Conference (Conference on Advances in Process Engineering) CAPE-19 on 12th October 2019, Volume-08, Issue-03 was released during Chapter's Day Function on 19th February 2020. The magazine team for the academic year 2019-20 consists of S. Srinivasan, S. Sathmeeka, and Z. M. Roshan Shahid Zubair, L. R. Vignesh, P. S. Fathima Shahzeena and R. Sindhuja who belong to III year and II year, B.Tech. Chemical Engineering.

The magazine publishes articles penned by students and faculty members. It encourages students to suggest new ideas or new sections for its betterment. Articles based on different areas pertaining to chemical engineering are promoted through the magazine. It has an interview section where alumni and professors are being interviewed about their experience and areas of interest. It also comprises of interesting puzzles and facts to entertain the readers. The magazine is easily accessible online in the IIChE portal where all the activities under IIChE are being updated regularly.

10. Gallery

Dr. K. S. Rajan, Dean, SCBT, Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, SASTRA Deemed to be University, Mr. S. Raghul, Chairperson, IIChE Students' Chapter- SASTRA with Chief Guest Mr. Dhasandhan Kumaravel, Senior Operator, Panel IFCC, Al Ghallan Island Operation Team during Inaugural Function on 23rd July 2019.

Dr. K. S. Rajan, Dean, SCBT, Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, SASTRA Deemed to be University with Chief Guest Dr. R. S. Saravanan, DST-INSPIRE Faculty Fellow – DST, School of Chemical and Biotechnology, SASTRA Deemed to be University during Engineer's day Function on 24th September 2019.

Dr. P. R. Naren, ACP, SCBT along with Participants of OpenModelica Workshop on 29th September 2019.

Chief Guest Dr. Abhijith P Despande, Chemical Engineering, IIT Madras with the faculties of SCBT and Mr. M. Anirudh, Secretary, IIChE Students' Chapter- SASTRA during CAPE on 12th October 2019.

Chief Guest Mr. SVR. Krishnan, Executive Director-Operations, Tamil Nadu Newsprint and Paper Limited with the faculties of SCBT and Council members of IIChE Students' Chapter- SASTRA during CAPE on 13th October 2019.

Chief Guest Mr. SVR. Krishnan, Executive Director-Operations, Tamil Nadu Newsprint and Paper Limited with Mr. S. Manish Kanna, Head, Hospitality, IIChE Students' Chapter - SASTRA during CAPE on 13th October 2019.

Dr. P. R. Naren, Associate Professor, Department of Chemical Engineering, School of Chemical and Biotechnology, SASTRA Deemed to be University, Mr. S. Raghul, Chairperson, IIChE Students' Chapter- SASTRA with Chief Guests Mr. N.S. Edwin Jenson., Director, Chemsys Innovative Solutions Private Limited and Mr. Varun Ayyathurai, Process Engineer, Chemsys Innovative Solutions Private Limited releasing the 3rd issue of the 8th Volume of ChemUnique during Chapter's Day on 19th February 2020.

Dr. V. Ponnusami, Associate Dean, Department of Chemical Engineering, SASTRA Deemed to be University and Mr. S. Raghul, Chairperson, IIChE Students' Chapter- SASTRA with Chief Guest Dr. Kumar Patchigola, Senior Lecturer, School of Water, Energy and Environment, Cranfield University, England during Knowledge Leadership Forum Lecture on 28th February 2020.

CONTACT US

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