

**ANURAG GROUP OF INSTITUTIONS**  
**(Autonomous)**  
**DEPARTMENT OF CHEMICAL ENGINEERING**

**Year 2019-20 - The Department of Chemical Engineering, Anurag Group of Institutions has organized 3 industry visits, 5 guest lectures, 1 FDP and 1 workshop under IChE student chapter activities from July 2019 till date.**

**INDUSRIAL VISITS**

S.No.	Name of The Industry	Date and Place
1.	PRATHISTA INDUSTRIES LIMITED, Hyderabad	14 <sup>th</sup> of August 2019, HYDERABAD
2.	NUCLEAR FUEL COMPLEX, Hyderabad	16 <sup>th</sup> of August 2019, HYDERABAD
3.	PUNYA HERBALS , Hyderabad	13 <sup>th</sup> of March 2020, HYDERABAD

**Guest Lectures**

S.No.	Name of person with designation	Name of the topic	Date and venue
1.	Dr. Chandra Shekhar Sharma, Associate Professor, Dept. of Chemical Engg., IIT, Hyderabad	Nanotechnology: A Tool to solve technological problems with Societal perspectives (From Energy to Environment to Healthcare)	22 <sup>nd</sup> August, 2019 D-Block Seminar Hall
2	Shri. H.R. Ravindra, General Manager (HR) & Head BARC Training School, Nuclear Fuel Complex (NFC), Hyderabad	Nuclear Energy and Societal Benefits	28 <sup>th</sup> August, 2019 D-Block Seminar Hall
3	Mothilal Banothu, Process Engineer, Sipchem, Saudi Arabia	Chemical Process Engineering and simulation using design software	6 <sup>th</sup> September, 2019 A-Block Seminar Hall

4.	<b>Prof. Claire F. Komives, PhD (Chemical Engineering) Professor, San Jose State University, California</b>	<b>Inquiry based labs and Project based learning to chemical engineering</b>	<b>21<sup>st</sup> December, 2019 D-Block Seminar Hall</b>
5.	<b>Lalit Kumar Kontham, Lead Engineer, WestRock, Texas</b>	<b>Opportunities for chemical engineers abroad</b>	<b>13<sup>th</sup> December, 2019 A-Block Seminar Hall</b>

### **FDP**

S.No.	Topic of FDP	Date
1.	<b>Computational Fluid Dynamics and its applications</b>	<b>15<sup>th</sup> -20<sup>th</sup> November 2019</b>

### **Workshop**

S.NO	Name of person with designation	Name of the topic	Date and venue
1.	<b>G.Vijay Kumar</b>	<b>Applications of Theory to process Industries</b>	<b>29<sup>th</sup> and 30<sup>th</sup> August, 2019 D-Block Seminar Hall</b>

### **INDUSTRIAL VISIT TO “*PRATHISTA INDUSTRIES LIMITED*”.**

**Date: 14<sup>th</sup> August, 2019, Wednesday.**

**B.Tech Chemical Engineering III year I semester, 2019-2020**

#### **Highlights of the Visit:**

- Students were educated on how bio based production which has a real scope in future.
- Two types are produced simultaneously that is sunflower oil and rice bran oil. Both of them follow the same refining procedure.
- It manufactures many components such as Gluconodelta Lactone, Gluconic acid, calcium gluconate, potassium, sodium and manganese gluconates.
- This company uses biological enzymes, bacteria, and fungi etc., which are stored into refrigerators for further usage whenever required at 20 degree Celsius.

- These are then increased in number and then various kinds of upstream and downstream process are observed. This industry follows various stages before passing through tons of litre tanks. Initially the data is collected from the R and D lab and then on the basis of those results the conditions are built and the process begins and the products are formed.
- These industrial products are used in many fields of food, pharma and various other industries and raw materials for making of various liquid or granular type fertilizers. This industry consists of waste water treatment section where the used or the waste water is treated and sent to the fields nearby for irrigation purpose.





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By BUNA NAIDU

## **INDUSTRIAL VISIT TO “NUCLEAR FUEL COMPLEX”.**

**Date: 16<sup>th</sup> August, 2019, Friday.**

**B.Tech Chemical Engineering III year I semester, 2019-2020**

### **Highlights of the Visit:**

- Students were educated on how Nuclear bundles were prepared which will be further used in Nuclear reactors as Nuclear fission reaction is an alternative source of energy generation.
- Two types of fuels Zirconium dioxide and Uranium dioxide are produced in Nuclear Fuel Complex.
- Various stages / steps involved in Preparation of Zirconium dioxide and uranium dioxide are explained and shown to the students during plant visit.

This Visit has helped students in knowing the insights of the industry. It has enhanced the students' insight, build confidence, empowered their theoretical knowledge, providing real life views on Nuclear fuels, one of their possible future workplace environment.





## **INDUSTRIAL VISIT TO “PUNYA HERBALS”.**

**Date: 13<sup>th</sup> March, 2020.**

### **Highlights of the Visit:**

- Students were educated on how bio based production which has a real scope in future.
- This company believe in treating our customers and clients with respect and faith.
- Grow through adopting latest methodology, invention and innovation.
- Integrate honesty, integrity and business ethics into all aspects of our commercial functioning.
- These are then increased in number and then various kinds of upstream and downstream process are observed. This industry follows various stages before passing through tons of litre tanks. Initially the data is collected from the R and D lab and then on the basis of those results the conditions are built and the process begins and the products are formed.
- Expansion in the field of Natural Extracts and develop a strong base of key customers.
- Increase the assets and investments of the company to support the enhancement of services.
- To build good reputation in the field of Natural Extracts and become a key player in the Herbal industry.



## Guest Lectures

Department of Chemical Engineering organized a guest lecture on the topic **Nanotechnology: A Tool to solve technological problems with Societal perspectives (From Energy to Environment to Healthcare)** delivered by **Dr. Chandra Shekhar Sharma, Associate Professor, Dept. of Chemical Engg., IIT, Hyderabad**. The lecture provided technical insights to the students into the practical applications in the field of Nano-technology and its importance in chemical process industries. The technological problems related to Energy, Environment and Healthcare was explained to students in detail. It gave an insight into the real life applications of the field of Nanotechnology. Students are highly benefitted with the talk.



**Dr. Chandra Shekhar Sharma delivering lecture**



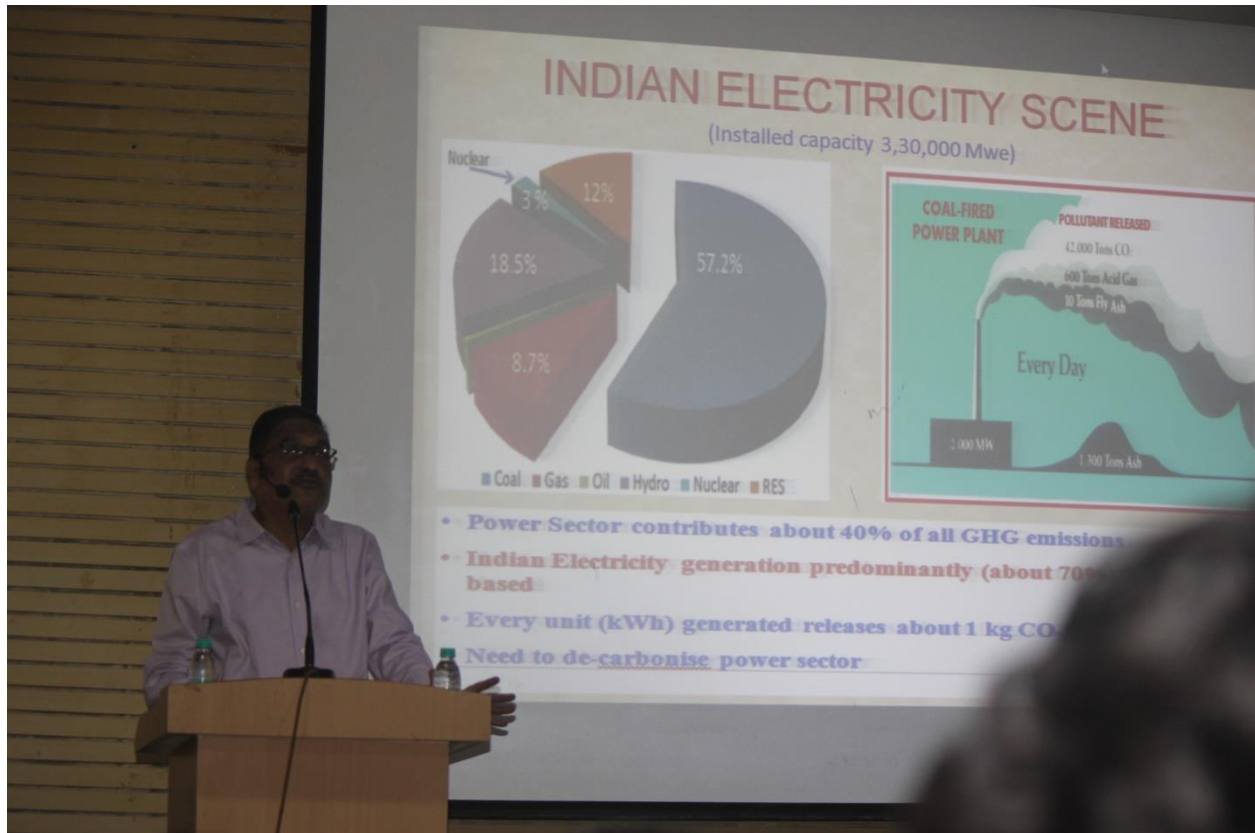


**Students and faculty during Guest Lecture**



**Felicitation of Guest in the hands of Dr. M. Mukunda Vani, H.O.D**

Department of Chemical Engineering organized a guest lecture on the topic **Nuclear Energy and Societal Benefits** delivered by **Shri. H.R. Ravindra, General Manager (HR) & Head BARC Training School, Nuclear Fuel Complex (NFC), Hyderabad**. This lecture provided technical insights into the various resources of Energy in India and their limitations in applications. Facing the technological problems related to Energy generation and its consumption is a big challenge now-a-days. Guest gave details about the importance of using Nuclear Fuel in comparison with various other energy sources. Nuclear fuel complex (NFC) is into preparing Uranium pellets for Nuclear reactor. The other applications of Nuclear radiation was also discussed in detail which includes in food preserving, water treatment etc.



**Shri. H.R. Ravindra delivering lecture**



### **Felicitation of Guest in the hands of Dr. M. Mukunda Vani, H.O.D**

Department of Chemical Engineering organized a guest lecture on the topic **Chemical Process Engineering & Simulation Using Design Software** delivered by **Shri. Mothilal Banothu, Hydrocarbon Industrial Experience 16+Yrs Process Trainer/Specialist, Sipchem, Saudi Arabia**. This lecture provided information about what is chemical engineering all about and who is a chemical Engineer. Apart from the basic introduction about chemical engineering speaker focussed mainly on simulation using design software. He clearly explained about the difference between BFD (Block Flow Diagram), PFD (Process Flow Diagram) and P& ID (Piping and Instrumentation diagram). And also emphasized on the importance of modelling and simulation in industries.

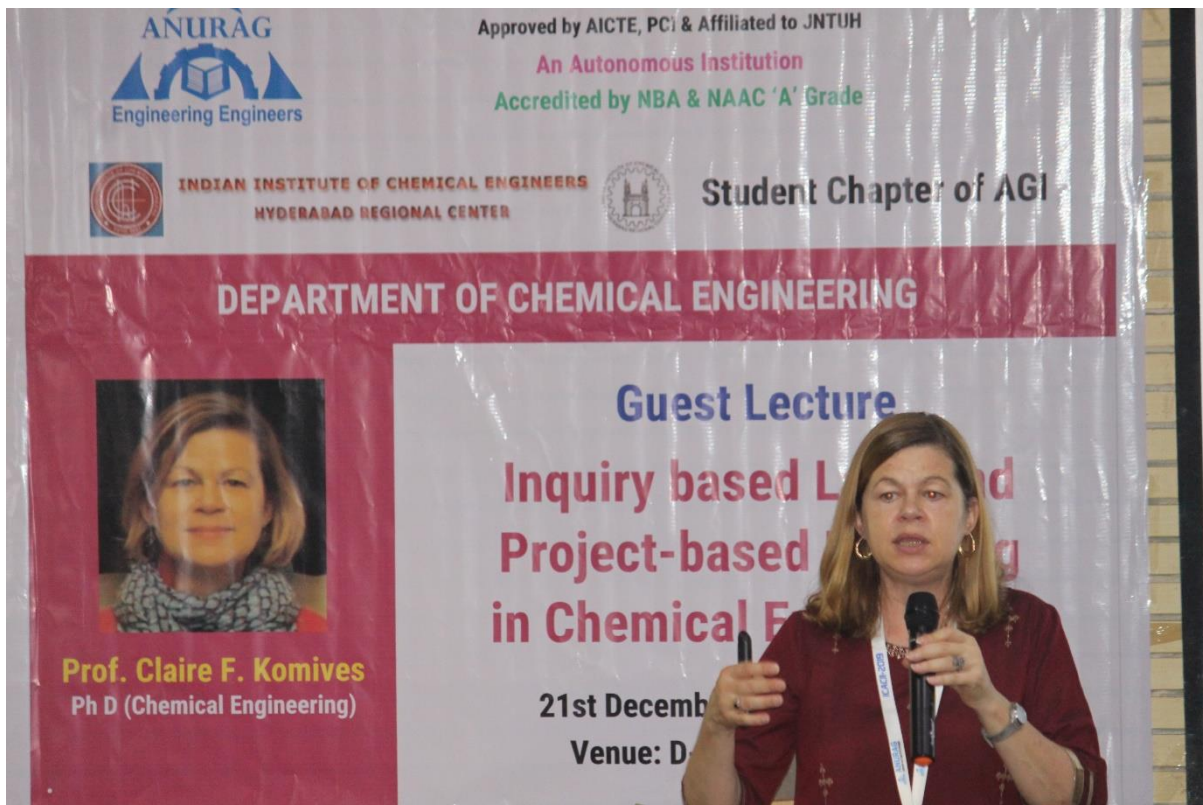


**Mr. Mothilal Banothu delivering lecture**



**Dr.M. Mukunda Vani and faculty felicitating the speaker**

Department of Chemical Engineering organized a guest lecture on the topic **Inquiry based labs and Project based learning to chemical engineering** delivered by **Prof. Claire F. Komives, PhD (Chemical Engineering) Professor, San Jose State University, California.** The lecture provided technical insights to the students into the practical applications in the field of chemical engineering and the importance of project-based learning for better understanding of students. Inquiry based labs and project based learning are extremely important for chemical engineers to know the applications of concepts in chemical industries.



**Prof. Claire F. Komives delivering lecture**



**Chemical Engineering Faculty with Guest**



**Felicitation of Guest in the hands of Dr. M. Mukunda Vani, H.O.D**

Department of Chemical Engineering organized a guest lecture on the topic **Opportunities for chemical engineers abroad** delivered by **Lalit Kumar Kontham, Lead Engineer, WestRock, Texas**. This lecture provided the insights of chemical engineers across globe. The guest is working as a Lead Engineer in WestRock, Texas and has clearly explained the students about the different prospects of students for further studies and job opportunities in different countries. Students have gained knowledge and has now a clarity of what has to be done after their engineering.



**Lalit Kumar Kontham delivering lecture**





### **Interaction of students with Guest**

#### **Workshop**

Department of Chemical Engineering organized a Workshop on the topic Workshop delivered by **Shri G.Vijay Kumar, Head, Process Engineers Group, Hyderabad**. This Workshop provided technical insights into the various Controllers like feedback, feedforward and ratio. He also explained how build CV and how to face technical interview.

