

DST INSPIRE SCIENCE CAMP REPORT

November 13th -17th, 2018

K L University, Vaddeswaram, Guntur has successfully organized five days INSPIRE Science Camp sponsored by Department of Science and Technology, Government of India from November 13th -17th, 2018 (Vide Sanction No.: DST/INSPIRE/01/2018/000624). The camp was attended by 200 students of various colleges from all over Andhra Pradesh state. The Camp was inaugurated on November 13th, 2018 with a formal welcome by Prof. Dr.K. Raghava Rao, HoD, Dept. Of Electronics and computer science Engineering (KLU) and program coordinator Inspire Camp. He highlighted the importance of Science for the growth of mankind. Prof. Dr.L.S.S. Reddy, Vice chancellor KLEF and Dr.K. L Narayana Dean R&D, KLEF mentioned aim and objectives of INSPIRE Camps to the audience. He said, “There can be Science without Technology but no Technology without Science”. Prof. Dr.P. Sangeevarao Advisor R&D, KLEF spoke on the importance of STEM (Science, Technology, Engineering and Mathematics) in today’s context and expressed his concern that India is lacking far behind in innovations as compared to countries like U.S. and U.K.

Chief Guest of the Inaugural Session was Eminent Scientist Prof. Dr. Umesh Kumar Sharma, Scientist, DST New Delhi. Addressing the young students, he emphasized that science is about making connections and in connections lays great power. Science has the ability to produce new technologies and make them sustainable for a better life. Motivating the students, he stressed on the importance of basics science and then through examples showed, how great scientists such as Newton, Maxwell, Bradley and others have built their theories based of their keen observation of nature and connecting different phenomenon. The PPTs presented by him were unique and exciting. After his talk, Prof. Dr.Md. Ali Hussain, Professor Department of Electronics and computer science Engineering and Convener INSPIRE Camp extended a formal vote of thanks.



Day:1 Inaugural Function of 10th Inspire Science Camp 2018

After a brief tea break, next technical session began with lecture on “**An open Maths problem: Does there exist an odd perfect number**” by Dr. K.N.Raghavan, Professor,IMSc.Chennai, Tamilnadu In the post lunch session, “ Prof. Dr.A.S.Ahluwalia,Professor Department of

Botany, Panjab University, gave an interesting lecture on “ **Global warming and Climate change with special reference to forest and biodiversity**” and demonstrated exciting gadgets.

On the second day, in the first talk Dr. Bala Prasad, Associate Professor, Bio-inspired Material Science Laboratory, Department of Chemistry, Ganeshkind, University of Pune shared his viewpoints “**Synthesis of nanoparticles and nanomaterials: Biological Approach’s**”. After this talk, Dr. G. Ambika, Professor Indian Institute of Science Education & Research (IISR), Tirupati, A.P, delivered a lecture “**Geometry of Nature**”.

The third day of INSPIRE camp began with the lecture on “**Scientific Research Leading to Nobel Prize**” by Prof. Dr. Samantha Anunayi, Professor and J.C. Bose National Fellow, School of Chemistry, University of Hyderabad. Dr. K. Rama Krishna, Dean IQAC, KLEF delivered a lecture on scope and applications of Mechanics. After technical session a quiz was conducted for the participants.

It was then followed by practical sessions in different science laboratories (Physics, Chemistry, Measurements and Biotechnology) of KLEF University.

KLEF University where students got a real-life experience of various models and experiments. Lab training sessions were conducted for all four days of the camp. Students also enjoyed the watching of all research labs. In the night during their stay at hostels of KLEF university.

On fourth day, Prof. Dr. S. Sudhakar excited the students by presenting “**Function of Riboflavin Regeneration**”. through PPTs and graphics. After his lecture, Prof. Dr. M. Venkata Ratnam, Scientist and Head, Aerosol, Radiation and Trace gas group, National Atmospheric Research Laboratory, Department of Space, Gadanki, Tirupathi, A.P, gave thorough PPT presentation on “**Introduction to the Atmosphere and Climate**” After a brief lunch break, students were participated in science writeup examination.

The last day of the camp began with lecture by Prof. Dr. K. S. Krishna, Professor, Centre of earth, ocean and Atmospheric Sciences, Hyderabad on “**The Ocean Floor Record of the Earth’s Past Geological History**” in which he spoke about Ocean floor record of the earth’s past geological history

There after Dr. Ahmed Shakeel, Scientist, NGRI Indo-French Centre for Ground water Research (NGRI), Hyderabad. delivered his lecture on “**Science of the hydrological cycle, Research in estimating its components for ground water management**”

After morning session, group photograph of students and faculty members was taken. All the speakers of the sessions not only spoke about various aspects of science and technology but emphasized the role of basic science research.

Valedictory session began with presentation of the report of the Camp Dr. K. Raghava Rao thanked the speakers and student participants for making the whole event successful. He also shared his views on events of the last four days. Students were enlightened with words of Dr. K L Narayana Dean R & D, KLEF.

Prizes and Certificates were distributed to the winners by Dr. Subbarao, Principal, COE, KLEF on this occasion. Thereafter, students and teachers from different colleges shared their experiences. Everyone expressed that camp was organized successfully. Participants got an extraordinary opportunity to interact with eminent scientists and learnt many things both of science and other disciplines from their intense and informal interaction. Those staying in

hostel enjoyed their stay in hostel. In general, all of them were satisfied and appreciative of all the efforts, quality of lectures, interaction with mentors and food.

They were seen discussing with experts, taking photos and asking questions whenever they could. From K L E F University side, organizers were satisfied with the camp. It was a privilege to have organized it again.

We are grateful to Department of Science and Technology, Govt. of India for granting this camp and are hopeful that we shall receive similar support in future also. We look forward to another opportunity to offer our expertise for enlightening young minds and motivating them for pursuing career in Basic Sciences.



Lecture Sessions of 10th Inspire Science Camp 2018 at KLEF University



Conducting lab sessions of 10th Inspire Science Camp 2018 at KLEF University





10th Inspire Science Camp Students Interact with Mentors

Dr.K. Raghava Rao

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