

ACTIVITY REPORT OF ONE WEEK SCIENCE AWARENESS WEEK

(February 22nd to 28th)

The Department of Science and Technology has sanctioned a project titled “Synergistic Training program Utilizing the Scientific and Technological Infrastructure” (STUTI) to conduct 22 training programs round the year and 12 awareness programs during science week from 22nd to 28th February 2022 under Azadi ka Amrit Mahotsav to mark the historic phase of India celebrating the 75 years of independence.

Central Research Instrumentation Facility at National Institute of Technology Warangal is organizing the STUTI-21 project. As part of the project, 12 awareness programs are scheduled targeting the intermediate (10+2) students of science stream from Telangana Social Welfare Residential Junior Colleges, Government Junior Colleges, and Government Aided Junior Colleges in and around Hanamkonda city. The theme of the awareness program is “R&D Equipment/ Facility for students Short Training and Popular Science Events”. Each awareness program consisted of 50 students from MPC or BiPC and the program is designed keeping in view of their stream.

On first day, 100 students from TSWRS/JC, Madikonda reached Ambedkar Learning Centre, NIT Warangal at 8:45AM for the inaugural function. Prof. V. Rajeswar Rao, Dean R&C, Co-chairman of STUTI-21 has invited the chief guest and other dignitaries on to the stage and briefed about STUTI-21 project. The chief guest Prof. B. J. Rao, Vice – Chancellor , University of Hyderabad, and the Guest of Honour Prof. N. V. Ramana Rao, Director of NIT Warangal started the program with the lamp lighting ceremony and motivated the students by paving a path in nation building. After the high tea the students of two batches of 50 each have moved to Homi Bhabha Hall and Bose Hall in Seminar Hall Complex respectively to attend their sessions.

On Day 1, the lecture sessions were conducted for two batches by Prof. N. V. Ramana Rao, Director, NIT Warangal on “Annals of Science in Nation Building” and Prof. V. Rajeswar Rao, Dean R&C on “Impact of Organic Chemistry on Society” at Bose Hall. After lunch, the lecture sessions by Prof. Ramana Murthy on Theory of Equations at Bose Hall for Batch-1, and by Dr. K.V. Gobi on Electrochemistry for Energy systems and Dr. Paul Joseph on Heat at Homi Bhabha Hall. Quiz Programs were conducted for both batches by Mr. Ravikumar, Technical Officer and certificates were awarded. After a high tea the exploratory and explanatory visits to DST supported equipment at CRIF by Mr. Harish Madupu, Technical Officer and Advanced Robotic Equipment at Siemens Centre of Excellence by Mr. V. Sudhakar, Technical Officer were done. The students interacted with the technical staff about the working and usage of the high-end analytical instruments. The students were given a Zip File , Participation Certificate and left NIT college premises at 5:30 PM.

On Day 2, 100 students of TSWRS/JC, Wardhannapet attended two awareness programs. For first program, the lecture sessions at Bose Hall were delivered by Prof. D.

Dinakar on Electricity, and Dr. Abdul Azeem on Semiconductor Physics and a Lab session on Basics of Microbiological Techniques was conducted by Dr. M. Jerold at Dept. of BioTechnology. For the second program, the lecture sessions at Homi Bhabha hall were delivered by Dr. Venkata Srilakshmi on Biomolecules, by Prof. Dinakar on Electricity, Dr.Thangaraju on Electronics, Dr. S. Nagarajan on hello scientists am I audible and a Laboratory visit by Dr. Haranath on physics awareness. The Quiz Programs were conducted by Mr. Ravikumar, Technical Officer. An interactive visit of DST supported equipment at CRIF and Advanced Robotic Laboratory at Siemens Centre of Excellence is conducted by Mr. Harish Madupu, Technical Officer. The students were given a Zip File and Participation Certificate and left NIT college premises at 5:30 PM.

On Day 3, 100 students of TSWRS/JC, Hasanparthy attended two programs. The lecture sessions for first program were delivered by Dr. Sanjay Kumar Panda on Road map to computing, by Dr. Bala Prakasha Rao on Recent trends in computer science and Dr. D. Kasinath on Chemistry topics. The second program of the day started with the lecture sessions by Dr. Haranath on Optics, by Dr. B. Srinivas on Chemical Reactions and Equations and Dr. Jayanthi on Magnetism. Physical Laboratory sessions by Dr. Ravindar Pawar and Dr. Onkar Perumal were conducted for two batches. Quiz Programs were conducted for both batches by Mr. Ravikumar, Technical Officer and certificates were awarded. After a high tea the exploratory and explanatory visits to DST supported equipment at CRIF by Mr. Harish Madupu, Technical Officer and Advanced Robotic Equipment at Siemens Centre of Excellence by Mr. V. Sudhakar, Technical Officer were done. The students interacted with the technical staff about the working and usage of the high-end analytical instruments. The programs of the day ended with a lecture session on Impact of Mobile and Internet Technology by Prof. L. Anjaneyulu. The students were given a Zip File , Participation Certificate and left NIT college premises at 5:30 PM.

On Day 4, 100 students of TSWRS/JC, Elkathurthy arrived at Seminar Hall complex by 8:45AM. The students of BiPC stream attended the lecture sessions by Dr. U.S.N. Raju on Art of Computer Programming, Dr. P.V.S. Reddy on Computational Thinking, by Dr. Raghu Chitta on Solar Energy Harvesting. The students of MPC stream attended the lecture sessions by Dr. Sathya Narayana Engu on Differential Equations and their Applications, by Dr.J. Srinivas on Quadratic Equations, by Dr. K. Hari Prasad on Green Chemistry in Day-to-Day life. The lab sessions on Physics by Dr. Uday Kumar and Practical Lecture by Dr. M. RagaSudha and Dr. Rajesh Khanna motivated the students to pursue and explore Science The Quiz Programs were conducted by Mr. Ravikumar, Technical Officer. An interactive visit of DST supported equipment at CRIF and Advanced Robotic Laboratory at Siemens Centre of Excellence is conducted by Mr. Harish Madupu, Technical Officer. The students were given a Zip File, Participation Certificate and left NIT college premises at 5:30 PM.

On Day 5, 105 students from A.V.V. Junior college, have attended the program in two batches. In Bose Hall, Dr. S Nagarajan, Dr. Palash Mishra and Dr. D. Kasinath have delivered

the lectures on various topics of science and experiments were demonstrated by the faculty in respective laboratories. In Homi Bhabha hall the lectures were delivered by Dr. Jugun Prakash on Chemistry of Colours, by Dr. Tyageswar Chandran on Protein Structures and Physical lab visits by Dr. B. Rama Raju on Bio-Chemistry were conducted. A computer laboratory is conducted by the Mr. Govinda Rao, Technical Officer and Mr. Bharghav Reddy, Technical Officer. The Quiz Programs were conducted by Mr. Ravikumar, Technical Officer. An interactive visit of DST supported equipment at CRIF and Advanced Robotic Laboratory at Siemens Centre of Excellence is conducted by Mr. Harish Madupu, Technical Officer. The students were given a Zip File, Participation Certificate and left NIT college premises at 5:30 PM.

On Day 6, 104 students of Pingili Junior College attended the lecture sessions by Prof. Vishnu Shankar on Miniaturization of Devices, MPC stream students were delivered the experimental lecture sessions by Dr. Jugun Prakash and BiPC stream students attended the laboratory session by Dr. Rathna Prabha at Dept of BioTechnology. The Quiz Programs were conducted by Mr. Ravikumar, Technical Officer. An interactive visit of DST supported equipment at CRIF and Advanced Robotic Laboratory at Siemens Centre of Excellence is conducted by Mr. Harish Madupu, Technical Officer. The students were given a Zip File and Participation Certificate and left NIT college premises at 5:30 PM.

The Valedictory ceremony was arranged at Ambedkar Learning Centre. The Chief Guest Prof. B.S. Murthy, Director, IIT Hyderabad and the Guest of Honour Prof. N. V. Ramana Rao graced the occasion. In their speeches they talked about the importance of Science and the need for its exploration by the upcoming generations and the words motivated the students to pursue their goal and become a part of India's technological advancements. Prof. V.Rajeswar Rao, Dean (R&C), Co-Chairman of STUTI-21 honoured the guests with Shawls. Prof. N. Narasaiah, PI of STUTI-21 appreciated all the CRIF team and thanked all the Heads of the Departments and their faculty members for their support in delivering the lectures and conducting laboratory sessions. He also thanked all the team of Siemens COE, Team of SCoPE, Security for their support. The DST was thanked for the support and motivation to conduct the one week awareness program on science. The 12 awareness programs were concluded on 28th February 2022.