

NEWS LETTER

DEPARTMENT OF MECHANICAL ENGINEERING

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

1. Vision and mission of the institute

- **Vision** : To be a centre of excellence in technical education to empower the young talent through quality education and innovative engineering for well being of the society.
- **Mission**
 - M1 Provide quality education with innovative methodology and intellectual human capital.
 - M2 Provide conducive environment for research and developmental activities.
 - M3 Inculcate holistic approach towards nature, society and human ethics with lifelong learning attitude.

2. Vision and Mission of the Department

- **Vision** : To excel in Mechanical Engineering education, Research and Development through innovation and technology.
- **Mission:**
 - M1 Provide quality education and skills to make the students globally sustainable Mechanical Engineers.
 - M2 Provide research oriented industry interaction to create and disseminate practical knowledge.
 - M3 Educate students about professional and ethical responsibilities for their career development and lifelong learning.

3. NBA Mock Inspection

Mock test is very important in any test or inspection to rectify problems if any and gives opportunity for further improvement of the program. The various benefits are

- ★ Gives an overall idea of level of preparation
- ★ Gives areas in which preparation is lagging
- ★ We get clear picture of the scheme of evaluation.
- ★ Gives plenty of room for improvement



The mock inspection for the Department of Mechanical Engineering was held on 07.07.2019 by Dr. K. Kiran Kumar an expert from NIT, Warangal. After participating in PPT presentation by Dr Suresh Akella, principal of the institution, he visited the Department of Mechanical Engineering and gone through all files in the Department as physical facilities such as labs, class rooms, tutorial rooms, Seminar hall, etc. At the end of the inspection he gives some valuable suggestions for further improvement in standards expected by NBA.

4. Faculty Development Program on Outcome Based Education

Teachers in Engineering and Science disciplines in higher education usually join the teaching

profession without any formal training in teaching methodology and learning psychology. They develop teaching skills through their own and from colleagues. Now the traditional methods of lecturing have become obsolete and Outcomes Based Education and Student Centred Teaching has become order of the day.



In this contest FDP program on " Outcome Based Education, Course Outcomes and Program outcomes attainment, CO-PO Attainments" was organised in the college on 07.07.2017. Dr. K. Kiran Kumar, Professor of Mechanical Engineering, National Institute of Technology, Warangal was the main resource person in this FDP programme. He was presented an effective information in the following concepts.

1. Major Course Contents:
2. Class handling
3. Teaching/Learning Tools
4. Outcome Based Education
5. Pedagogy Tool Demo
6. Creating Learner centric environment
7. Assessment Tools
8. Active Learning Methods
9. Essence of effective teaching
10. OBE/NBA Guidelines
11. Learning Taxonomies
12. Digital Technologies
13. Moodle/MOOCs

The faculty from the Department of Mechanical Engineering were participated and benefitted by attending the program. The Principal Dr. Suresh Akella felicitated the resource person with memento at the end of the programme.

5. Department Meeting on " Overcoming Gaps in Documents Prepared for Submitting to NBA Committee"

The Department Meeting was held on 8th July 2019 at Principal's chamber for reviewing the remarks made by the mock inspection committee came from National Institute of Technology Warangal on 7th July 2019.



All faculty including the Department Head were attended the meeting. In the meeting, reviewed for COs, POs, PSOs, PEOs and their mapping. Also discussed on the drawbacks pointed out by the committee, criterion wise for immediate correction.

6. FDP on NBA By Principal on 14-07-2019 for Mechanical Engineering Faculty

The basic concepts on the purpose of NBA accreditation of institutions was described well by Dr. Suresh Akella, Principal, in the Department FDP held on 14.07.2019. All faculty from the Department of Mechanical Engineering were participated in it. during the programme, few faculty members were raised questions on the process of NBA.



All doubts were clarified by the Principal and encouraged to speed up the documentation process. The faculty felt that the programme was good and much useful in understanding the principles underlying in NBA accreditation it.

7. Department Inspection for NBA Accreditation



The Department of Mechanical Engineering was visited by the NBA appointed committee members for Mechanical Engineering department assessment during 26-28, July 2019. Dr. Swarnendu Sen, Professor of Mechanical Engineering, Jadavpur University, Kolkata and Dr. Ashesh Tiwari, Institute of Engineering, Devi Ahilya University, Indore were the members of this NBA assessment committee.

8. Research Publication in Springer Journal from the Department Faculty

Mr. A C Sekhara Reddy, Assoc. Professor from the department has published a research paper in Springer through participation International Conference on Emerging Trends in Engineering (ICETE-2019).



The research paper is in the research of Deep Drawing and titled as "Experimental and Simulation Study in Deep Drawing of Circular Cups for Determination of LDR" using the experimental and simulated tests performed using the facilities developed in the department lab facilities.

9. TEQIP Scheme for The Department of Mechanical Engineering for Improving the Technical Education Standards



Technical Education Quality Improvement Project (TEQIP) in India aims to improve the quality of Technical Education and Engineering Education to produce high quality technical professionals in order to raise productivity and competitiveness of the Indian economy. It seeks to scale up and support ongoing efforts of the Government of India to enhance existing capacities of the institutions to become dynamic, demand-driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments. TEQIP assists to improve the quality of Technical Education in competitively selected engineering institution from the participating States by providing inputs like modernisation of laboratories/workshops, library, faculty and staff development, networking between institutions,

curricula development, research and improve interaction with Industries, service to community and economy. Under this scheme Sreyas Institute of Engineering and Technology funded for improving the technical education. The orders of this scheme has been received by the Principal, Dr Suresh Akella from the authorities of JNTUniversity, Hyderabad on 30.07.2019.

10. GRADUATION DAY

Graduation Day is, in simple words, the day of graduating or receiving an academic degree upon completion of one's studies. For a student in SREYAS, it is A special occasions that is often described as a "rite of passage" in their life. The graduation day for 2019 passed out students was held on August 10th, 2019. More than 50 students were attended in this grand occasion.



Prof. V Kamakshi Prasad, Professor & Director of Evaluation, JNTUH was the chief guest for the function. Sri A Vinai Kumar Reddy-Chairman, Sri Ravindranath-Secretary, Sri Hrudai Reddy-Vicechairman, Dr Suresh Akella-Principal, Department heads and faculty attended the program.



Faculty from Mechanical Engineering were participated effectively and greeted the students for their successful life.



Independence Day Celebrations at Sreyas

Independence Day is celebrated every year on 15th August. This was the day when India was freed from the British Rule. It is a national festival and has equal importance for every Indian regardless of religion, class, creed or race. The way of celebration is also the same throughout the country and that is the day when you will find whole India celebrating and rejoicing. Independence day celebrations at Sreyas were performed and flag hoisting was done by the Principal. Faculty and students were actively participated in this this program and on this occasion plantation of samplings activity was performed as a part of national importance. It is the responsibility of every citizen of India to work and protect the nature from depletion of natural resources. Under NSS, Sreyas is working for promoting for better environment through different activities. Sri A.Hruday Reddy-vice chairman and Sri A. Narasimhareddy - grand father of vice chairman, HODs, faculty, administrative staff and students were involved in this plantation work. Mr Y.Krishnaiah, HOD-Mechanical and Mechanical staff were actively involves in this program.





When we talk about the achievements since independence, we need to mention advancement in science and technology in various fields. Today India is independent in manufacturing and producing many technical and industrial goods. We can take pride in the space technology and development in this field. There has been development and improvement in the infrastructure when we compare India before and after more than 60 years of independence.



However, all these things matter less until the people below poverty line are uplifted in the real sense. It is our social responsibility to help these people come out of the pathetic situation and attain basic necessities of life.

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