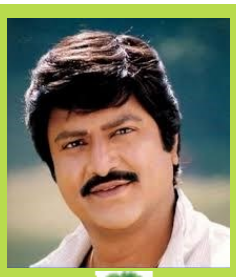
SREE VIDYANIKETHAN ENGNEERING COLLEG



M-YANTRA

Boon of Accomplishments
e-News letter

DEPARTMENT OF MECHANICAL ENGINEERING

Volume 4, Issue2 Newsletter Date 06.04.2018

Highlights:

- 27th Annual Day Celebrations
- Diabetes Camp
- International Women's Day
- Blood Donation Camp
- Entrepreneurship Awareness Camps
- Industry 4.0
- Machine Learning
- Photo Gallery

Inside this issue:

Department Profile

The Department currently offers undergraduate program (B Tech) in Mechanical Engineering. The present intake is 180. We provide state of the art facilities both in the classrooms as well as in the laboratories. The department has a team of well qualified, experienced and committed staff members. It provides an atmosphere conducive for acquiring knowledge and emphasizes on practical learning. The department motivates both cultural and physical activities.

Vision

To setup global guidance in the vicinity of Mechanical Engineering and develop technological base for attaining self-reliance through education, research and training.

Mission

Department of Mechanical Engineering is established to provide students with a sound Mechanical Engineering education, advance the understanding and application of Mechanical Engineering principles to work in multicultural and multidisciplinary environment.

Engage and impart knowledge to the students for innovative, high-impact and leading edge research and development of modern Mechanical Engineering science through contemporary curriculum.

Maintain a collegial, supportive, and diverse environment that encourages students, faculty, and staff to achieve to the best of their abilities.

Serve our students by teaching them problem solving, leadership and teamwork skills, and the value of a commitment, quality and ethical behavior for their employability.

Serve the community and industry through proactive knowledge exchange.

Program Specific Outcomes (PSOs)

On successful completion of B. Tech. (ME) Program, graduates will be able to:

- Apply principles and concepts pertaining to Fundamental sciences, Humanities and Mechanical Engineering in solving problems of practical interest in sub domains of Manufacturing, Thermal, Design and Management Sciences.
- Analyze problems of practical importance in research and industry by integrating engineering sciences.
- Design mechanical components, systems or processes to meet desired functionality with realistic constraints.
- Conduct investigations on complex engineering problems to obtain plausible solutions in the sub domains.

Program Educational Objectives (PEOs)

Within few years of graduation, B. Tech. (ME) Program, graduates would have:

- Higher education in mechanical engineering, business administration, or other disciplines.
- Career in mechanical engineering and allied industry, software industry, or managerial positions, and ability to start entrepreneurial ventures related to Mechanical Engineering.
- Ability to recognize the importance of, and engage in life-long learning through self study for solving prob-

Dr.K.C.Varaprasad
HoD,ME

Message from the HoD

I happy to share the developments being made to project the activities of the students thought this newsletter wherein it explores the information on the student support, mentoring, tutoring, study skills, workshops and career developments activities in the Department. I would like to congratulate all members of the editorial board for their sincere effort to release this new edition of venture. I earnestly wish and sincerely hope that thi new publication turns out to be a resounding success.

Faculty Mechanical

Total Strength: 40

Professor: 6

Associate Professor: 7

Assistant Professor: 27

Number of doctoral holders: 13

Faculty membership details

Indian Welding Society (IWS) : 12
ISHARE. : 01

"Scientists dream about doing great things. Engineers do them."

Film Artist, Manchu.Manoj was the Chief Guest of the Event

NSS Activities

- "OFFLINE/ONLINE ELECTORAL REGISTRATION PROCESS" organized by NSS unit on 07.02.19 and 150 volunteers were participated.
- "DIABETES CAMP" organized by NSS unit on 18.02.19 and 50 volunteers were participated.
- "AWARENESS CAMP ON CYBER CRIME" organized by NSS unit on 19.02.19 and 30 volunteers were participated.
- "DRUG FREE INDIA CAMPAIGN BY - ART OF LIVING" organized by NSS unit on 19.02.19 and 35 volunteers were participated.
- "INTERNATIONAL WOMEN'S DAY" organized by NSS unit on 08.03.19 and 30 volunteers were participated.
- "KIDNEY AWARENESS TALK" organized by NSS unit on 12.03.19 and 25 volunteers were participated.
- "BLOOD DONATION CAMP" organized by NSS unit on 19.03.19 and 80 volunteers were participated.

The Chief Guest Dr. B. Mohan, Director, SVIM delivering a keynote lecture to the students

Entrepreneurship programs organized

- "Entrepreneurship Awareness Camp-III" sponsored by EDII Ahmedabad under DST-NIMAT Project 2018-19 organized by Entrepreneurship Cell on 18.02.2019 to 20.02.2019 and 62 students were participated.
- "Entrepreneurship Awareness Camp-IV sponsored by EDII Ahmedabad under DST-NIMAT Project 2018-19 organized by Entrepreneurship Cell on 14.03.2019 to 16.03.2019 and 66 students were participated.
- "Entrepreneurship Awareness Camp-I sponsored by EDII Ahmedabad under DST-NIMAT Project 2018-19 organized by Entrepreneurship Cell on 02.04.2019 to 4.04.2019 and 61 students were participated.

Student Technical Chapter

A total no. of 58 students taken membership of "ISHARE" and 51 students enrolled in Indian Welding Society (IWS).

STTP Organized

- A Two Day Short Term Training Programme on "Conceptual Design and Innovative Manufacturing using SOLIDWORKS" was organized by Mr.A.Venkatesh, Mr. G. Dileep Kumar. The resource person invited as

(i) Mr. Mahender Ganna, Senior Design Engineer

(ii) Mr. J. Sharath Chandra, Mechanical Engineer, Shreya Global Technologies, Hyderabad

Student paper published

- Mr.Chenchu Giri prublished a paper entitled " Simulation of Temperature and residual stress field in Friction stir welded AASI 304 stainless steel joints" in Manufacturing Technology Today, CMTI Publishers.

Student paper presented

- B.Surendra presented a paper entitled " Review on arc variation of GTA welded joints" in the National Conference on recent strategies in mechanical and materials engineering organized by the department of mechanical engineering on 16th march 2018 at Adhi College of Engineering and Technology, Chennai, Tamil Nadu.
- Ms.V.Ambika Reddy presented a paper entitled " Physico-Chemical, Mechanical and Thermal Characterization of MoringaOleifera Fiber as Potential Bio-Reinforcement in Polymer Composites" in the International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems organized by the department of mechanical engineering on 18th-20th january 2018 at National Institute of Technology, Tiruchirappalli, India.
- Ms.B.Vasanthi and Ms.B.Mamatha presented a paper entitled " REVIEW ON WELDING OF INCONEL MATERIAL" in the National Conference on recent strategies in mechanical and materials engineering organized by the department of mechanical engineering on 16th march 2018 at Adhi College of Engineering and Technology, Chennai, Tamil Nadu.

"An investment in knowledge pays the best interest."

College Event

27th Annual Day Celebrations

Sree Vidyanikethan Educational Institutions (SVEI) celebrated the Annual Day with fervor and gaiety. The celebration began with the dance performance by the students invocating the Lord Shiva followed by the annual report of SVEI by Mr. Vishnu Manchu, CEO, Sree Vidyanikethan Educational Trust. The CEO was delighted to announce that SVET had donated Rs. 1 Crore to Neonatal Intensive Care Unit at Ruia Hospital, Tirupati on the occasion of Chairman"s birthday. He also thanked all the guests for gracing the occasion.

The Chief Guest, Ms. P.V. Sindhu, Indian Professional Badminton Player & Olympics Silver Medalist, Hyderabad expressed her happiness for being a part of the celebration. She appreciated all the facilities in SVEI especially library and research laboratories. She said to the students of Sree Vidyanikethan, the Chairman, Dr. M. Mohan Babu would be a

INFO BITES General Information

Industry 4.0

Industry 4.0 has many synonyms. It is referred to as Industrial Internet of Things (IIoT), Digital Revolution, and the Fourth Industrial Revolution. It doesn't matter how we define it; Industry 4.0 is all set to bring in revolutionary changes to the process industry in the coming years.

Industry 4.0 defines the Smart factory. Industry 4.0 aims at embracing the ongoing digital transformation development and evolution of connectivity. It includes cyber-physical systems, the Internet of things, cloud technologies and cognitive computing to provide intelligent autonomy to the Manufacturing process, thus enhancing efficiency manifold and optimising the production process.

It is an amalgamation of people, processes, workflows, services, IT systems, production equipment and other physical assets that generate data during the processes of manufacturing. Industrial IoT helps various departments, manufacturers, suppliers and consumers alike provide increased automation, improved communication and monitoring, along with self-diagnosis and new levels of analysis for improved productivity.

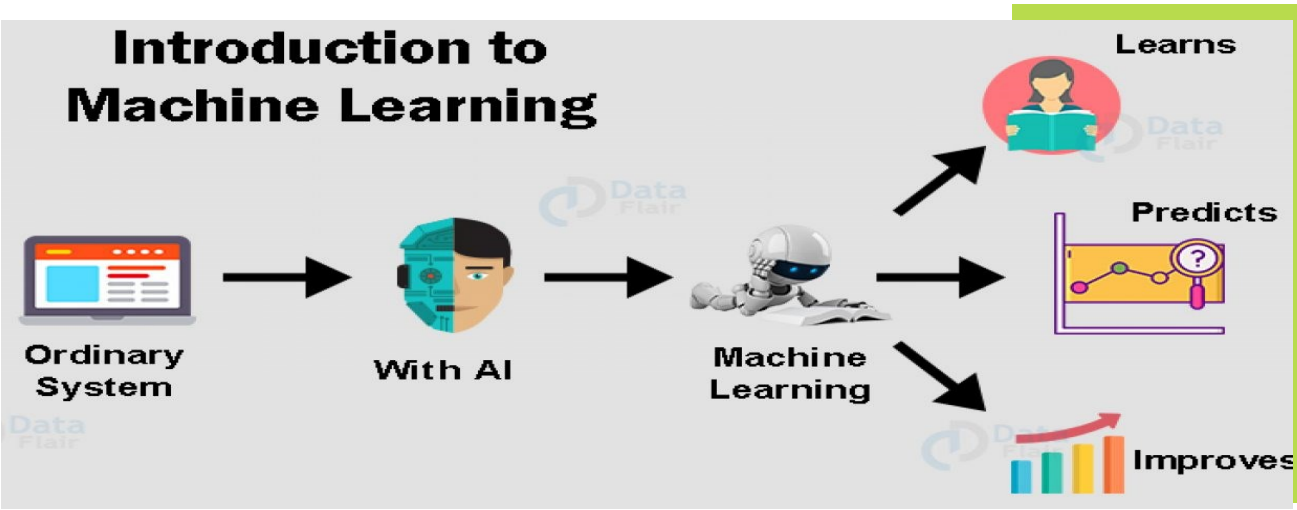
Machine Learning

Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it learn for themselves.
The process of learning begins with observations or data, such as examples, direct experience, or instruction, in order to look for patterns in data and make better decisions in the future based on the examples that we provide. The primary aim is to allow the computers learn automatically without human intervention or assistance and adjust actions accordingly.

Some machine learning methods :

- Supervised machine learning algorithms
- unsupervised machine learning algorithms
- Semi-supervised machine learning algorithms
- Reinforcement machine learning algorithms

Machine learning enables analysis of massive quantities of data. While it generally delivers faster, more accurate results in order to identify profitable opportunities or dangerous risks, it may also require additional time and resources to train it properly. Combining machine learning with AI and cognitive technologies can make it even more effective in processing large volumes of information.



SREE VIDYANIKETHAN ENGINEERING COLLEGE

DEPARTMENT OF MECHANICAL ENGINEERING

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We're on the Web!
https://www.svec.education/courses/b-tech-mechanical-engineering-me/

SVEC – Sree Vidyanikethan Engineering College was established in 1996 and is run by SVET – Sree Vidyanikethan Educational Trust, founded and established by Padma Shree awardee, Dr. Manchu Mohan Babu, with a personal commitment towards providing best education to deserving students and he became a source of inspiration and guiding spirit to the students' fraternity.

PHOTO GALLERY

Annual Day—Cultural Events

Inaugural Function of IE (India) Student's Chapter

Mohana Mantra 2K18 – A Gala Fiesta

Student Participants in ED cell Program

Machine Tools Lab, SVEC