



KSCST Best Project Award

The students of Vivekananda College of Engineering and Technology, Puttur have participated in the Karnataka State Council for Science and Technology Seminar and Exhibition held at Bapuji Institute of Engineering and Technology, Davangere on 10th and 11th August 2018. This project is supported by Department of Science and Technology, Government of Karnataka and Department of Science and Technology, Government of India. In the Exhibition category, out of 61 Mechanical projects that had come across from Karnataka State,



project titled, "Pepper Separator and Cleaning System", designed and fabricated by Mr. Udayashankara K, Mr. Prasanna Kumar D R, Mr. Rohith and Mr. Prasad students of Department of Mechanical Engineering, under the guidance of Dr. Deepak K.B, Associate Professor, Department of Mechanical Engineering, Vivekananda College of Engineering and Technology, Puttur has been adjudged as "Best Project of the Year" and also "Project Ready for Commercialisation".

Vision

“ To be a well-recognized department in providing conducive environment for learning, leading to well-qualified engineers who are innovative and successful in their diverse careers”.

Mission

- M1: Students:** To Prepare, educate, inspire and mentor the students to excel as professionals.
- M2: Faculty:** To Facilitate in academic and research activities.
- M3: Infrastructure:** To provide state of the art infrastructure facilities in the field of mechanical engineering.
- M4: Teaching Learning:** To improve pedagogical methods employed in delivering the academic programs.

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**Launch of New Logo
for the department**



प्रत्येकश्वासः पारितोषिकमस्ति

Mechanical Engineering department came out with a new logo designed by Mr. Satyajeeth Malla, 8th Sem Mechanical Engineering Student symbolising the importance of every single aspect for research oriented minds.

Faculty Development Programme On Turbomachines

Three Days faculty development program was organized by the department of Mechanical Engineering from 26th to 28th July, 2018 at Vivekananda College of Engineering & Technology, Puttur.

This Faculty Development Program thematically over Turbo machines and with its subtopics conducted with an objective of Contentious improvement of Teaching Learning process. The FDP was inaugurated on 26th morning



by Dr. Abdul Sharief, Principal PACE, Mangaluru. The Program was presided by Sri Vishwas Shenoy, The Director, VCET Governing Council. Dr. M. S. Govinde Gowda, Principal VCET and Sri Ravikrishna D Kallaje, The Director, VCET Governing Council were present on the dais.

The FDP on Turbo machines received an overwhelming response from the faculties of different colleges all over Karnataka. Total 22 out station and 12 in-house participants

attended this FDP. The Entire FDP was split into 6 sessions 2 each on every day. **Introduction to Turbo-Machies & Thermodynamics of Fluid Flow** were discussed by Dr. Abdul Sherrief, Dr. M S Govinde Gowda, discussed the **Energy Transfer in Turbo machines**. Second day Dr. Shridhar T N, Professor NIE, Mysore covered **Steam Turbines and conducted practical session on graphical methods**. Second day afternoon session was handled by Dr. Ramakrishna N Hegde, Professor & Head Dept. of Automobile Engineering, S.I.T Valchil. Dr Hegde covered **Centrifugal Pumps and Compressors**. Last day the first session was handled by Prof. Sunil Lakkundi over **Hydraulic Turbines**. The last session on 3rd day handled by Dr. M S Govinde Gowda on the topic **Energy Transfer in Turbo Machines**.

Mechanical Engineering Students' Association Valedictory and Farewell

Department of Mechanical Engineering in association with Mechanical Engineering Students' Association (MESA) organised **MESA Valedictory & Farewell** to final year Mechanical Engineering students on 25th April



2018. Chief Guest of the function was Sri. Sathish Rao. P, President, VCET governing Council. Principal Dr. M.S. Govinde Gowda presided over the function.

Program was organised in Keshava Sankalpa. Program was inaugurated by the chief guest. Dr. Manujesh B.J, HOD welcomed the gathering. MESA coordinator, Asst. Prof. Sri. Vrijesh Rai S read the Annual Activity Report. The Chief Guest distributed prizes to the winners of various competitions held under MESA throughout the year. Later he addressed

the gathering wherein he wished the graduating students all the success and expected them to be useful to the society.

Principal also praised the students for their achievements and gave his wisdom to be a successful Mechanical Engineer. Asst Prof. Sri. Akshay Kumar, proposed the vote of thanks bringing the formal program to an end. Students of Final year Mechanical Engineering planted two saplings in the garden in front of Library as a mark of remembrance.

MOTOR

Motors are electronic machines that convert AC or DC electrical current into rotational movement. Most common electrical motors work through the interaction of a magnetic field and winding currents to generate a force. The basic principle behind electric motors, Ampere's Force Law, was first described by Ampere in 1820 and was first demonstrated by Michael Faraday in 1821. One of the first practical motors was created by Hungarian physicist, Anyos Jedlik in 1828.

VCET Puttur Team Wins National Pro Karting Championship

The Mechanical engineering students of Vivekananda College of Engineering & Technology (VCET), Puttur, under the banner of VCET PUTTUR SAE INDIA COLLEGIATE CLUB with a team name "REVAAN RACING" won the 1st place out of 25 colleges which



participated from different parts of the country, in the National level SIEGER PRO KARTING CHAMPIONSHIP held at Adithya Group of Institutions, Kakinada, Andhra Pradesh between 13th to 17th February 2018. The team consisting of 22 students won the "Championship" and was awarded the cash prize of Rs.1,00,000 in the event. The team captain was Mr. Shamith and Mr. Charan was the driver of the car. The faculty advisor was Prof. Srinivas M K of Mechanical Engineering Department. Management, Principal and the staff of VCET congratulated the team on its success. From Karnataka, this is the first team ever to become "**Champions**" in the Go-Karting events.

The purpose of this event is to provide an opportunity for engineering students to come up with innovative ideas, to work in multidisciplinary teams, practice design and manufacturing, manage a full product development cycle and to fine-tune their technical skills. The rules for building the vehicle was framed in the rule book by the organizers to maintain the uniformity amongst all the competing teams.

The team won 3 more awards.

- 1) Best build quality.
- 2) Auto cross.
- 3) Clean pit award for implementing 5S technology.



CONSULTANCY WORK

A project to prepare production drawings of already existing post harvesting machines for ICAR-Directorate Cashew Research, Puttur D. K was discussed and assigned to the Department of Mechanical Engineering, Vivekananda College of Engineering and Technology, Puttur. The above work of preparing the Production drawings of post harvesting machine was taken up by Mr. Satheesha Kumar K, Asst. Professor and Mr. Harish S R, Asst. Professor along with some students of the department.

A total of six post harvesting machines were assigned for preparing engineering drawing. Initially, the dimensions of all the machines was taken manually and rough sketches were drawn at the site. Using these measurements, part modelling & assembly drawings of the machines were prepared using the Solid edge modelling software which included both 2D and 3D drawings as per the requirement of the client. The above work was completed between 20th March 2018 to 3rd April 2018. A set of hard copies of all the drawings along with the soft copy was handed over to the concerned authorities as per the schedule. Payment of Rs.15,000 was paid by client to the department towards this consultancy job. The client appreciated and congratulated the team for satisfactory completion of the work in time.

Largest Floating Solar Plant

A huge credit to China's reign of innovative "green" technologies, was their implementation of the world's largest floating solar power plant. The plant, engineered and installed by Sungrow, announced the world's largest floating solar power plant entered operation earlier in May 2017. The **40 MW** plant will power over **6,500 homes**. Built and installed on top of an abandoned mining operation, the plant will not affect any marine life. It is a small but a great step in the direction of clean energy.

National Level Student Conference - JNANASANGAMA 2018

Jnanasangama 2018, A National level student Conference was held on 16th May 2018. Dr. G L Easwara Prasad, Principal, Mangalore Institute of Technology and Engineering, Moodabidri inaugurated the conference. Mr. Sathish Rao. P, President, Governing Council, VCET Presided over the function. More than 200 papers belonging to ME, EC, CS, IS, CV & MBA were received from various colleges across Karnataka. A total of 112 papers were selected from all branches for oral presentation. 113 papers were selected for poster presentations. Prof. Dayakshini, Associate Professor, Dept. EC, SJEC, Vamanjoor, Mangaluru was the chief guest for the valedictory function. Sri. Ravikrishna D Kallaje, Director, Governing Council, VCET presided over the function.

About 17 external teams from about eight colleges and 8 internal teams (VCET) participated in paper presentation competition under mechanical engineering stream in the event. About 7 external teams and 27 internal teams participated in poster presentation competition. Around 175 students from the mechanical stream actively participated in the event. Welcome kits and Certificates were given to all the participants. Dr. Shreeranga Bhat, Associate Professor, SJEC, Mangaluru, Dr. Satheesha Kumar N, Associate Professor, CEC, Benjanapadavu, Mangaluru, Dr. Shankargoud N, Professor, VCET, Puttur and Dr. Deepak K B, Asst. Professor VCET, Puttur judged the paper presentation.

Mechanical Engineering Graduates 2018-19

Know This!!

A Section Students



B Section Students



The **Aeolipile** was the world's first rotating steam engine or more technically correct, a steam reaction turbine. It was devised by the great Heron of Alexandria in the **1st Century AD** and described it in great detail in his book **Pneumatica**.

This relatively simple device works by heating a reservoir of water within the device to generating steam. The steam is then conducted through one of the copper supports to a pivoted brass sphere. Once the steam reaches the sphere it escapes through one of two nozzles at the ends of two, small, opposingly pointing arms. The escaping steam generates thrust and causes the sphere to rotate.

Engineering problems are under-defined, there are many solutions, good, bad and indifferent. The art is to arrive at a good solution. This is a creative activity, involving imagination, intuition and deliberate choice.

— Ove Arup