



SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust® Udupi)
Vishwothama Nagar, Bantakal – 574 115, Udupi District, Karnataka, INDIA

Yantrika

(Mechanical Engineering Department E-Newsletter) Volume 1; Issue 1; 2015-16

Departmental Activities

Research & Development Center for Technology Upgradation of Cashew processing Equipment

An R&D centre for technology upgradation of cashew processing equipment established in the Department of Mechanical Engineering of Shri Madhwa Vadiraja Institute of Technology and Management, (SMVITM)Bantakal, Udupi was inaugurated on 31 August 2015. The facilities in this R&D center are provided by Karnataka Council for Technological Upgradation (KCTU), Government of Karnataka and SMVITM.

Mr. Anil A. Uppin, MD, KCTU, who was the chief guest on the occasion said the importance of R&D in the field of agriculture. He congratulated SMVITM for being the first functional R&D centre out of the sixteen sponsored projects by KCTU. He revealed the importance and need for upgradation of Cashew processing equipment's on this occasion. He suggested R&D team on having the regular meetings with the Cashew Industry people to understand the needs and act according to it. He also said that KCTU will extend all its support in all the future projects of R&D and wished this centre to develop as R&D hub. Speaking on the occasion, a guest of honour Mr. P Ramdas, MD, Ace Manufacturing Systems, Bengaluru emphasized the need to be focused on excellence and working with passion in one's chosen field of work. He said that his forty five years of experience in the field of machine tool manufacturing had centred on research and development. He urged the audience to be people who would work with their hands, heads, heart and soul in order to serve society and thereby accomplishing the missions as well realizing the visions of their life.

Mr. Bola Rahul Kamath, President, Karnataka Cashew Manufacturers Association, another guest of

honour, urged the students of the institute to take up R&D projects that would help the industry and congratulated SMVITM on being the first engineering college in the state to set up a dedicated centre for the upgradation of cashew processing equipment.

Mr. SrinivasaTantry, Vice President, Shri Sode Vadiraja Mutt Education Trust, (SSVMET) Udupi presided over the function. Mr Vivekanand Huddar and Dr Sudarshan Rao, Head and Associate Professor respectively at the Department of Mechanical Engineering delivered the welcome speech and the vote of thanks.

Mr. Ramananda Nayak, Joint Director, District Industries Centre, Udupi; Dr. H.K.V. Rao, former Director, SMVITM; Mr. Rathnakumar, Secretary, SSVMET; Mr. Harish Belman, Advisor to SMVITM; Dr. Radhakrishna S. Aithal, Director, SMVITM; Dr. ThirumaleshwaraBhat and Dr. A. Ganesha, Principal and Dean (Academics), SMVITM were present.





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Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal, Udupi has signed MoU with reputed Manufacturing Industry, Vinayaka Engineering Works (VEW), Mangalore in order to extend academic excellence and the research activities of its R&D (Research and Development) centre for technology up gradation of cashew processing equipment. This was held in a function organised at Shri Sode Vadiraja Mutt, Sode (Sonda), Uttara Kannada, on 21 September 2015 in the presence of H. H. Shri Vishwavallabha Theertha Swamiji, President of Shri Sode Vadiraja Mutt Education Trust (SSVMET), Udupi.



The renowned manufacturing industry, Vinayaka Engineering Works., Mangalore has recognized SMVITM as its academic and research partner. VEW is specialist in producing cashew processing equipment & machineries and also manufacturer,

erector and contractor of Class 1 Boiler. The memorandum facilitates SMVITM students for their academic activities like internships, industrial visits and project works. As a research partner, SMVITM will get assistance in research, design and development activities within the norms of participating organizations.

Sri Ratna kumar (Secretary of SSVMET), Prof. Dr. Radhakrishna S. Aithal (Director), Prof. Dr. Thirmaleshwar Bhat (Principal), (Dr.) Vivekanand Huddar (HOD, ME), Dr. Sudarshana Rao (Dept. of ME) and Mr. Mohan Rao J from VEW were present during the occasion.

Shri Madhwa Vadiraja Institute of Technology and Management (SMVITM), Bantakal, Udupi has signed MoU with University of Agricultural and Horticultural Sciences, Shivamogga in order to promote collaborative project/research work and academic excellence. The MoU was signed in a function organised at Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, on 31 October 2015 in the presence of H. H. Shri Vishwavallabha Theertha Swamiji, President of Shri Sode Vadiraja Mutt Education Trust (SSVMET), Udupi.





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The University of Agricultural and Horticultural Sciences, Shivamogga is (UAHS) the first integrated university in the state of Karnataka, having both agricultural and horticultural sciences under its purview, serving with the objective of imparting education in various branches of agriculture and promote partnership with national and international educational and research institutes. SMVITM has agreed to join hands with this reputed University with the objective of providing technical competency to resolve the problems related to agriculture/horticulture through collaborative multidisciplinary projects and research work. The MoU also contribute to achieve academic excellence through various joint initiatives utilizing the research experience of the scientists of UAHS and technical knowledge of faculty and students of SMVITM.

The MoU was signed in the august presence of Sri P. Srinivas Tantry (Vice President of SSMVET), Sri Raghavendra Tantry (Management Representative), Sri Harish Belman (Technical Advisor), Prof. Dr. Radhakrishna S. Aithal (Director), Prof. Dr. Thirumaleshwara Bhat (Principal), Dr. A Ganesha, Dean (Academics), (Dr.) Vivekananda Huddar (HOD, ME), Dr. Sudarshan Rao, Professor in Mechanical Engineering, Dr. Hanumanthappa, Associate Director of Research, UAHS, Dr. K Sudhir Kamath, Senior Farm Superintendent and Dr. V R Vinod, Associate Professor, UAHS, Shimogga.

Padmashree Sri A.S. Kiran Kumar, Chairman , ISRO, Bengaluru, inaugurated a Creativity Centre in the department of Mechanical Engineering at Shri Madhwa Vadiraja Institute Technology & Management, Bantakal on 8th November 2015 in



This center is co-sponsored by Tara Prakashana & L.E.S Pvt. Ltd., Bengaluru. The centre is a platform for realizing the technical ideas of the student. The students of SMVITM, Bantakal will get the benefit of this centre in the days to come.

Sri P Srinivasa Tantry, Vice President of Shri Sode Vadiraja Mutt Education Trust, Sri Rathna Kumar, Secretary, Shri Sode Vadiraja Mutt Education Trust, Prof. Dr. Radhakrishna S Aithal, Director of the Institute Principal Prof. Dr. Thirumaleshwara Bhat, Dean (Academic) Prof. Dr. Ganesha A, HOD of Mechanical Engineering Department Prof. Vivekananda Huddar, Prof. Dr. Sudarshan Rao, Teaching, Non-Teaching staff & students were present during the occasion.

A person, who never made a mistake, must have never tried anything new...



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Staff Achievements

PhD awarded to Dr Sudarshan Rao K

Dr. Sudarshan Rao K, Associate Professor, Mechanical Engg Dept, was awarded Ph. D. degree on 29th August, 2015 from Vishweshvaraya Technological University, Belgavi for his doctoral thesis “A study on tribological behaviour of Composites”.

ISME Institutional Chapter

An Institutional Chapter of the Indian Society of Mechanical Engineers was started at the Dept of Mechanical Engineering. All faculty, staff and students under the department became registered members of the Society.

Student Achievements

Diraj and Nandan Prabhu of final year Mechanical Engineering students won the ‘Winners Trophy’(first prize) in the “VTU Mangalore Zone Inter-Collegiate Table Tennis Tournament 2015-16” for boys held at Shree Devi Institute of Technology, Kenjar, Mangalore, on 07 to 08 September 2015.

Anup Kodancha, Anush Kedlaya and Praveen Kumar Bayari of final year Mechanical Engineering participated in the “Do it Yourself Competition” held on 15 September 2015 at Bejai Church Hall, Bejai, Mangaluru for the Engineering students and secured First prize and Winners Trophy. This event was organized by Kodagu, Dakshina Kannada & Udupi Engineers’ association, Mangaluru and The Institution of Engineers, Mangaluru Local Centre. The project model competition was organized for the engineering college students of Kodagu, Dakshina Kannada and Udupi district as a part of Engineers’ Day celebration.

Students of SMVITM won the Runner-up Trophy at Technidarshan ’15, which was held at NMAMIT, Nitte from 29 to 31 November 2015. Avinash and Shailesh Kumar of third year mechanical engineering won the 1st Prizes in NFS and EC Paper Presentation respectively.

Kumar and his team won the first place in the Zonal Round Robotryst – 2016 held at Mangalore Marine College & Technology, Kuppepadavu organized by Robosapiens Technologies Pvt. Ltd. held on 28 – 29 September 2015.

Shreesha V S of final year Mechanical Engineering won the 2nd Place in Pick and Act event at Karavali Zonal Cultural Competition 2015-16 held at Dasabhavana, Innanje organized by Rotaract Club of Subashnagar sponsored by Rotary Club of Shankarpura on 18 October 2015. Roopith R Salian of third year mechanical engineering, Swaroop Belle, Sucheth Nayak, Alva Rakshith, Deviprasad Shetty, Shreesha V S of final year Mechanical Engineering and Rakshith R of first year Mechanical Engineering all won 1st Prizes in Variety Act held at the same competition.

Mr. Shailesh Kumar of third Year Mechanical Engineering student won Second Place in Mechanical Paper Presentation at Varnothsava 2016 (An- Intercollegiate Techno Cultural Fest) organized by Shri Madhwa Vadiraja Institute of Technology, Banatakhal on 10th and 11th March 2016. He also won Second Place in Mechanical Paper Presentation at aakriti 2016 (Intercollegiate Techno Cultural Fest) organized by CEC, Benjanapadavu, Mangaluru.



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Mr. Sharathchandra K G of third year Mechanical Engineering Student has won Second Place in Mechanical Paper Presentation at Sentia 2016(State Level Intercollegiate Cultural, Technical and Management Fest) organized by MITE, Moodabidri on 24th March 2016. He also won First Place in Mechanical Paper Presentation at Varnothsava 2016 (An- Intercollegiate Techno Cultural Fest) organized by Shri Madhwa Vadiraja Institute of Technology, Bantakal on 10th and 11th March 2016.

Department of Mechanical Engineering has won the “Overall Championship in Athletics & Games” in “SMVITM Annual Sports Competition - 2015-16” held on 13th February 2016.

Departmental News And Activities

Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering was appointed as Head of the department of Mechanical Engineering with effect from 01/01/2016.

Shri Madhwa Vadiraja Institute of Technology and Management Bantakal has successfully organized three days workshop on ‘CNC PROGRAMMING & HANDS-ON SESSIONS ON VERTICAL MACHINING CENTER’ for ITI & Polytechnic students of Udupi and Dakshina Kannada districts during 19-21 January 2016.

The Workshop was organized by Mechanical Engineering Department and 42 students of various polytechnic colleges have taken advantage of it.

The teaching and non-teaching staff of the department acted as resource persons and taught students the basics of CNC program writing and also gave hands-on demonstration on R&D center

vertical milling center. Students were found to be enthusiastic throughout the sessions in learning various concepts and operating high end VMC



ISTE Student Chapter, in association with the department of Mechanical Engineering, conducted a Technical talk on “Unmanned Aerial Vehicle”, on 26th February 2016 in the college premises. Dr Pruthviraj U NITK Surathkal, was the resource person. All Pre-final year Mechanical Engineering students attended the talk and interacted with the resource person.

Dr Pruthviraj U highlighted the role of Unmanned Aerial Vehicle in Tiger saving, Agricultural field, Thermal behavior in IC Engine, Building construction, and many others. He explained the components and method of fabrication of UAV System with less cost and better performance. He also mentioned the essential design tools for the designing of UAV model. The talk provided the students a platform for sharing their thoughts regarding Unmanned Aerial Vehicle System and also about the critical issues regarding the selection of suitable components and tools for their projects, and were provided with proper guidance regarding all these aspects.

Earlier, Prof. Dr. Sudarshan Rao, HOD Mechanical Department of SMVITM, welcomed the resource

It is very easy to defeat someone, but it is very hard to win someone.



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person with a flower bouquet. At the end of the session Prof. Dr. Sudarshan Rao, HOD Mechanical Department, presented a memento to the speaker. The program was compered by Mr. Pavan A and Mr. Bharath, of pre-final year Mechanical Department.

ISTE Student Chapter, in association with the department of Mechanical Engineering, conducted a Technical talk on “Thermal Energy Engineering Applications”, on 5th April 2016 in the college premises. Mr. P Niranjan Adiga Thermal Energy Engineering and consultant Bangalore was the resource person.

Mr. Adiga highlighted the applications of thermal energy in the thermal power plants, Gas turbines and also explained the various cycles related to the thermal plants. He explained the components of thermal power plant and methods to improve its performance. The talk provided the students a platform for sharing their thoughts regarding Thermal Energy and also about the critical issues regarding the selection of suitable components and tools for their projects, and was provided with proper guidance regarding all these aspects.

Earlier, Prof. Dr. SudarshanRao, HOD Mechanical Department of SMVITM, welcomed the resource person with a flower bouquet. At the end of the session Prof. Dr. SudarshanRao, HOD Mechanical Department, presented a memento to the speaker. The program was compered by Mr.Pavan A and Mr. Bharath, of pre-final year Mechanical Department.

Department of Mechanical Engineering organized One day Training session on “Google Drive” by Mr. Vijendra V Bhat, Asst. Professor for the Faculty & Clerical staff members of Shri Madhwa Vadiraja



Institute of Technology and Management, Bantakal on 05th February 2016.

A Competitive examination on AutoCAD was organized for Mechanical Engineering students on 28 February 2016 by CADD Centre, Udupi.

A Technical Paper Presentation and Modeling Competition were arranged for 40 Mechanical Engineering student participants of different Engineering Colleges was organized for Varnothsava 2016 on 10th and 11th March 2016.

A Guest Lecture on “Psychrometry” in connectionwith Applied Thermodynamics by Prof. N Sathish Kumar, Associate Professor, Department of Mechanical Engineering, Canara Engineering College, Bantwalfor IV Semester 127 Mechanical students on 7th & 23th April 2016.

A project work titled “Drone Pesticide Sprayer” by Mechanical Engineering students under the guidance of Mr. Sudhir, Asst. Professor was selected for VGST Grant by Government of Karnataka of worth Rs 40,000/- .

A project work titled“Solar Green House Dryer for Cashew Drying- Passive and Active Mode” by Mechanical Engineering students under the guidance of (Dr.) Vivekanand B Huddar, Associate Professor is selected for KSCST Sponsorship of worth Rs 8,000/-.



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Faculty Publications

Dr. Thirumaleshwar Bhat, Professor, Department of Mechanical Engineering has published a paper titled “Performance and Emission Characteristics of a C.I. Engine fuelled with diesel and TiO₂ nanoparticles as fuel additive”, in Science Direct, Materials Today: Proceedings 2 (2015).

Dr. Sudarshan Rao K, Professor, Department of Mechanical Engineering has published a paper titled “Erosive wear behaviour of carbon fiber-reinforced epoxy composite”, in Materials Today: Proceedings 2 (2015).

Mr. Madhukara Nayak, Assistant Professor, Department of Mechanical Engineering has published a proceeding titled “Influence of Liquid Nitrogen Cooling on the End Milling of Elastomers”, in International Conference on Mechanical Engineering and Industrial Automation, held on 21-22 November 2015, in Dubai (ISBN: 9788193137321). He also published four papers and details are given below.

“Study of Total Productive Maintenance and Manufacturing Performance of a Manufacturing Industry”, in IOSR Journal of Business and Management (IOSR- JBM), e- ISSN: 2278-487X, p-ISSN: 2319-7668. Volume 17, Issue 9. Ver. I (September 2015).

“Effect of KM enhancement for R & D innovation and Firm performance: A SystemDynamics perspective”, in IOSR Journal of Business and Management (IOSR- JBM), e- ISSN: 2278-487X, p-ISSN: 2319-7668. Volume 17, Issue 8. Ver. II (August.2015).

Mr. Ranganatha, Assistant Professor, Department of Mechanical Engineering has published three papers and the details are

a. “Fabrication And Comparison of Solar Water Heater With And Without Semi Circular Trough” in International Journal of Mechanical, Robotics and Production Engineering, Volume V, Issue VII, July 2015.

b. “Physiochemical Properties of Synthesized Mahua Biodiesel Comparisons with the ASTM Biodiesel Standard and Commercially Available Diesel”, in International Journal of Science Technology & Engineering, ISSN (online): 2349-784X, Volume 2, Issue 08, February 2016.

c. “Effect of Wood Flours on Moulding Sand Properties”, in International Journal of Research & development organization, ISSN: 3855-0154, Volume 2, Issue 1, January 2016.

Mr. Lingaraj K Ritti, Asst. Professor, Department of Mechanical Engineering has published a paper titled “Fabrication and Comparison of Solar Water Heater With And Without Semi Circular Trough” in International Journal of Mechanical, Robotics and Production Engineering, Volume V, Issue VII, July 2015.

Mr. Vijendra V Bhat , Asst. Professor, Department of Mechanical Engineering has published a paper titled “Effect of Wood Flours on Moulding Sand Properties”, in International Journal of Research & Development organization, ISSN: 3855-0154, Volume 2, Issue 1, January 2016.

Mr. Karthik V, Asst. Professor, Department of Mechanical Engineering has published a paper titled “Optimisation of Process Factors and Reduction of Product Cycle Time in Manufacturing of an Airbus Component Beam”, in International Journal of Mechanical, Robotics and Production Engineering



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Mr. Kishor Kumar Aroor, Asst. Professor, Department of Mechanical Engineering has published a paper titled “Study of Total Productive Maintenance and Manufacturing Performance of a Manufacturing Industry”, in IOSR Journal of Business and Management (IOSR- JBM), e- ISSN: 2278-487X, p-ISSN: 2319-7668. Volume 17, Issue 9. Ver. I (September 2015).

(Dr.) Pavana Kumara, Asst. Professor, Department of Mechanical Engineering has published two papers and the details are given below.

a. “Fabrication and Comparison Of Solar Water Heater With And Without Semi Circular Trough” in International Journal of Mechanical, Robotics and Production Engineering, Volume V, Issue VII, July 2015.

b. “Effect of Wood Flours on Moulding Sand Properties”, in International Journal of Research & development organization, ISSN: 3855-0154, Volume 2, Issue 1, January 2016.

(Dr.) Aditya Kudva S, Assistant Professor, Department of Mechanical Engineering has attended a two day International conference on “3i-Intelligence, Innovation & Inclusion” and presented a paper titled “Green Practices A Scenario in Indian Manufacturing Firms” organized by Department of Management Studies, School of Management, Pondicherry University on 11th & 12th March 2016.

Alumni Messages

Though we were complaining for each and everything, I now realize that the technical education we received was excellent. I never faced any problem regarding the facilities we had nor the teaching/teaching methods.

All lecturers are well qualified. Right from HOD to the lab assistants, each lecturer had his strengths and depth of knowledge in their own field. Lecturers are very kind, helpful, dedicated and available at all times.

We felt like we're tied up. It was wrong on our part to blame the department and the institution. It was solely for our benefit. The rules and regulations were perfect. I suggest the department to carry out the same methods in the future. I strongly suggest that strictness is required. This is the crucial part of our lives. Students are always 'free' after the 'class hours'. So there is nothing wrong to be strict inside the campus. THIS IS HOW WE LEARN DISCIPLINE. If students are left free, the same attitude will be followed in the future when they are working for an organization.

I (personally) think students must undergo internships in a small scale industry at least. Students must participate in technical fest only to gain knowledge. The soft skill training must be held when students are in 1st and 2nd sem. At this stage, they will interact more. Once they enter their branch, they should be oriented in technical field. English is essential throughout.

Some find it difficult to speak. They should be motivated. The best way to make students realize where they stand is by asking them to compose their own RESUME. They should concentrate on these three areas: skills, achievements and technical knowledge.

|| sarve janah sukhino bhavantu ||

Don't ruin a good today by thinking about a bad yesterday. Let it go...