The horizon
Journey towards Excellence

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YASHWANTRAO BHONSALE
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Mechanical Engineering Department

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DIRECTOR'S DESK

Hon. Achyut Sawantbhonsale
Executive Chairman, SYBES

I am pleased to know that our Mechnical Department is coming with its News letter 'The Horizon.' As we know that we are going through a very crucial time of COVID 19. This pandemic has changed the scenario of whole life. The education is the most affected field due to this pandemic. Though the traditional way of education changed a lot, we don't want to stop teaching-learning process. Online education has changed the whole scenario of this system. Online education has helped a lot to keep the students updated and knowledgeable. In such situation teachers are trying their best to keep students updated and knowledgeable. They are conducting various online activities to fulfill their aim. So I appreciate the efforts done by them.

So this Newsletter focusing on all the activities which have been done through online will give us the clear idea about all happenings. On this Occasion, I congratulate all team members for bringing this newsletter. I am sure that we will get good response from our students and stakeholders. ★★★

To have a foundational impact on our students through continual education in Mechanical Engineering.

M1: To transform our students into employable engineers using fundamentals of Mechanical Engineering.

M2: To enhance capabilities of our students by exposing them to outside world.

M3: To serve the society through technical contribution in Mechanical Engineering.

Research paper published by Final year students from Mechanical Department

Final year students from Mechanical department, Panchit Ekawade, Shrikrishna Parab, Vinay Ghadi, and Sanket Ghatkar published a research paper in anInternational Journal for Scientific Research Development& Vol. 9, Issue 6, 2021 & ISSN (online): 2321-0613 under the guidance of Mr. S.S. Lanjekar. The research topic isDesign and Fabrication of Cashew Nut Scooping Machine. Cashew is the one of the major horticultural crops in the Konkan Region of Maharashtra. Hence, the cashew processing industries are having good scope in this region. The usual trend is that the entrepreneurs here start their cashew processing unit on small scale and with the availability of funds they expand their unit. Hence, there is no logical expansion of the processing plants occur that ultimately add to the processing cost. The processing units which are set with proper planning can save time and motion and the cost of processing. This article presents the time and motion study of two cashew processing units one of which is gradually expanded while the other one is set up with proper planning. -theoretical attempt is made to improve the planning of the gradually expanded unit to reduce the time and motion.

HOD'S DESK

Mr. A.J.Rane
HOD, Mech Dept.

I am very excited to know that Mechnical Department is coning with its new vol. of a Newsletter 'The Horizon.' As we know that COVID -19 pandemic has taught us many lessons. For the students and the teaching faculty this period has turned out to be very crucial experience. Usages and adoption of technology helped to gain knowledge. With the arrival of COVID 19, the need of online education came to its front. Online platforms like zoom, youtube, moodle, goolge class room became very important in delivering lectures and giving knowledge. So this Newsletter focuses on the online activites which were conducted during and later the lockdown period. We are sure that we will get the good response from the readers. ★★★

Research paper published by Final year students from Mechanical Department

Final year students from Mechanical Department, -rjun Morje, Sonu Lad, Sarvesh Mandalkar and Manthan Kinalekar published a research paper in an International Journal for Scientific Research Development under the guidance of Mr. V. S. Powar. The research topic isDesign and Fabrication of -dvanced Motorized Water Pump Using Scotch Yoke Mechanism. In this, the concept of Motorized Water Pump using Scotch Yoke Mechanism which is mainly carried out for production based industries. We have developed a conceptual model of a water pump which would be capable of giving high discharge along with high pressure and it should be economically efficient. This pump gives maximum discharge at the same time with high pressure. Scotch Yoke mechanism is operated by motor and it is running with the help of current. The reciprocating motion of the plunger is utilized for the pumping action. The plunger is reciprocated with the help of cam plate. By this action the water is pumped with very high pressure. It is designed as a portable one which can be used in agricultural fields. Since this machine uses very less human effort and it is cheap.

Achievements in higher studies by staff members of Mechanical Engineering


Mr. V.S.Powar Mr.M.R.Ghatage

Mr.V. S. Powar completed his M. Tech. in Mechanical Production Engineering from A shokrao Mane Group of Institution, Wathar under BATU University, Lonere.

He achieved first class with distinction grade with 8.03CGPA. He worked on Study the effects of welding parameter on properties of TIG welded aluminum 4043 plates. Also Mr.M. R. Ghatage completed his M Tech. in Mechanical Design Engineering from Ashokrao Mane Group of Institution, Wathar under BATU University, Lonere. He achieved first class with distinction grade with 8.03 CGPA. He worked on Analysis of loosening behavior of single lap bolted structure under low velocity impact.

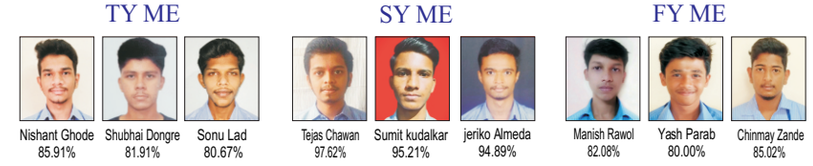
MSBTE Summer2021 Result Declared

MSBTE Summer 2021Result of Second and Third year Mechanical Engineering was declared in the month of August 2021. All students from second year are successfully passed all the subjects. Also from third year Shubhay Dongare secured first rank with 95.09% marks. Nishant Ghode and Shaikh Aman secured second and third rank with 94.53% and 93.78% marks. Management, Principal, HOD and staff congratulated all the successful students.

Students from Mechanical Engineering placed at various reputed industries

Passout students of 2020-21 batch have been placed at various national and multi-national industries. Five students have been placed atCipla Ltd, 6 students atJohn Deere Ltd, 7 students at JCB,Pune, 15 students at Datwyler Packaging. One student was selected at Glenmark Ltd, Goa, one student at General Electric, Pune respectively. Overall 103 students have been selected in various industries Other students applied for higher studied in Mechanical Engineering. Management, Principal, HOD and staff congratulated placed candidates.

SUMMER 2020 RESULT : TOPPERS



Various expert lectures conducted by Mechanical Department and TPO Cell

Mechanical Engineering department and TPO cell conducted various expert lectures and events for the development of students. On 29th September 2021, Mr. M.T Patil arranged expert lecture on CAD/CAM and CNC Programming. Mr. Nitin Wakode, Director, Mastarcam, Deccan IT Technologies was the guest expert for this lecture. All the expert lectures were conducted in Online Mode and using YouTube and Zoom.

meeting. Mr. M. T Patil Sir was the Staff Coordinator for these Events.