Webinar Report

on

"FUTURE OF SUSTAINABLE DESIGN"

Date of webinar: 24/11/2020

Staff Coordinator: Santhosh A N

No. of students participated: 105

Department of Mechanical Engineering organized a Webinar on "<u>Future of</u> <u>Sustainable Design"</u> with Mrs. Gayatri Raghu, Autodesk Academic Channel Partner and her colleague Mr. Manish Chatterjee as the resource persons for the session.

Highlights of discussion are below:

Mrs. Gayatri Raghu delivered the Introduction to Autodesk, various software platforms in Autodesk, Introduction to EASY TECH Training and Solutions.

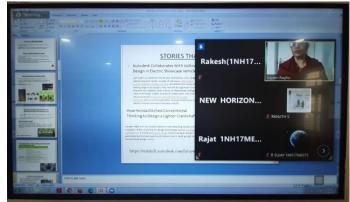
Introduction to Sustainability, meeting the present needs without compromising future needs, THREE pillars of Sustainability such as Economy, Environment & Social, Sustainable Manufacturing considering the parameters of economy, environment and social aspects, Product Design and Manufacturing considering 3R's, green manufacturing & lean manufacturing, how to design the product and manufacture it sustainably? Few examples of sustainable manufacturing, Generative design adopted by Volkswagen, Honda manufacturing lighter crankshaft etc.

Mr. Manish Chatterjee highlighted the Introduction about Industry 4.0, 3R's of Sustainable manufacturing such as Recover, Redesign & Re-manufacturing and 3R's of Green manufacturing such Reduce, Reuse, and Recycle etc.

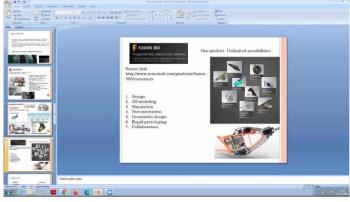


Photo Gallery

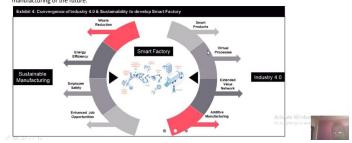








Currently, industry experts and researchers are utilizing industry 4.0 technologies to address challenges and issues related to TBL of sustainable manufacturing. For instance, environmental challenges such as climate change, resource depletion, and **REC** information and protection will be addressed with industry 4.0 technologies. This brings a new perspective to industry 4.0, which was traditionally looked at digitizing operations and reaping benefits. However, for this to be realized, there should be complete coherence and convergence of industry 4.0 technologies. The below exhibit 3, shows the important technological enablers of the fourth industrial revolution, which is expected to play a significant role in achieving sustainable manufacturing of the future.





Sustainable manufacturing is seen from various dimensions depending on its purpose and application; however, the widely accepted dimensions among the industrial participants are Environment, Society, Economy, Technology, and Performance Management. Of the mentioned dimensions. Environment, Society, and Economy are regarded as the 'three pillars' of sustainable development and are often known as 'Triple Bottom line' (TBL).

Developing manufactured products using processes with a comprehensive view of the environmental impact (conservation of energy and other natural resources) and aiding in the safety of employees and consumers is termed Sustainable Manufacturing

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New Horizon College of Engineering, Bangalore

Feedback from students for Webinar on 'FUTURE OF SUSTANABLE DESIGN" on 24th November 2020 @ 11am to 12:30pm

Email Address	Name	USN	Choose your semester	Choose your section	Phone Number	Name of the Speaker	How was the overall organization of the session?	How relevant was the content discussed by the speaker?	How much interesting this session was for you?	Did the session covered what your were expecting?	Overall effectiveness of the session
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