



Report on the Webinar
“Introduction to Industrial Design (Industry 4.0) - Visualisation and Conceptualisation”

Presented by **Mrs .Vaishnavi Vignesh Raja,**

Director - Equad Engineering Services VP - Operations & Strategy - SECO Controls Pvt. Ltd.

08.09.2021

Sep 08, 2021, Time: 11.00 PM to 12.30 PM

School of Mechanical Sciences,

BSACIST Organized a Webinar on

“Introduction to Industrial Design (Industry 4.0) - Visualisation and Conceptualisation”

<p><u>Convenor</u></p> <p>Dr.S.Rasool Mohideen , Dean SMS</p> <p>School of Mechanical Sciences,</p> <p>BSA Crescent Institute of Science and Technology</p> <p><u>Coordinator</u></p> <p>Dept. of Mechanical Engineering</p> <p>Dr.S.Ravikumar, Asst Professor</p> <p>Department of Mechanical Engineering</p> <p>School of Mechanical Sciences,</p> <p>BSA Crescent Institute of Science and Technology</p>	<p>Speaker:</p> <p>Mrs .Vaishnavi Vignesh Raja,</p> <p>Director - EQUad Engineering Services</p> <p>VP - Operations & Strategy - SECO Controls Pvt. Ltd.</p> <p>Chennai, Tamilnadu, India.</p>
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PREAMBLE

The online webinar on “An introductory webinar on Industry 4.0 - Industrial Design Visualisation & Conceptualisation” was organized by Department of

Mechanical Engineering. The webinar was presided by. Dr.S.Rasool Mohideen , Dean SMS . The presentation was delivered by Mrs. Vaishnavi Vignesh Raja,. Director - Equad Engineering Services, VP - Operations & Strategy - SECO Controls Pvt. Ltd.

Around 200 students from Mechanical, department, and faculty members participated in the webinar. The webinar emphasized on the importance of Industry 4.0 - Industrial Design Visualization & Conceptualization concept and their role in industries

The following points were described during the webinar

Industry 4.0 is a broad vision with clear frameworks and reference architectures, mainly characterized by the bridging of physical industrial assets and digital technologies in so-called cyber-physical systems.

1 Industry 4.0 is a vision that evolved from an initiative to make the German manufacturing industry more competitive ('Industry 4.0') to a globally adopted term.

2. The goal is to enable autonomous decision-making processes, monitor assets and processes in real-time, and enable equally real-time connected value creation networks through early involvement of stakeholders, and vertical and horizontal integration.

3. The fourth industrial revolution and the impact of the drivers and technologies behind Industry 4.0 have been looked at from the perspective of various sectors after the concept was launched.

4. In essence, the technologies making Industry 4.0 possible leverage existing data and ample additional data sources, including data from connected assets to gain efficiencies on multiple levels, transform existing manufacturing processes, create end-to-end information streams across the value chain and realize new services and business models.

5. Industry 4.0 builds upon data models and data mapping across the mentioned end-to-end product life cycle and value stream. All the technologies in Industry 4.0 need to be seen in that perspective whereby integration is key.

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6. Integrations in Industry 4.0: Vertical and horizontal integration as all systems change, The first is vertical integration whereby all the systems in

the traditional automation pyramid are affected: from field level and control level to production level, operations level and enterprise planning level.

The above details were explained with relevant examples

Further the speaker explained the significance of industry 4.0 in current core industries.

- Finally Dr. S.Ravikumar - Coordinator concluded the webinar with Vote of thanks .



Coordinator



HOD (Mech)

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"In the Name of Allah, The Most Beneficent, The Most Merciful"



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Organizes



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08 September 2021 @ 11.00 AM

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Ms. Vaishnavi Vignesh Raja

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Coordinators

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Mr. S. Arulmozhiselvar, AP, Aero

Mr. N. Kamesh, AP, Auto

Dr. J. Shahitha Parveen, AP, Poly

Some sample presentations:

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Slide 1 of 5 | "Office Threats" | English (United States) | 11:37 (08-26-2021)



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INDUSTRIAL DESIGN (Industrial 4.0)
VISUALISATION & CONCEPTUALISATION
Batch - 28th, 29th, 30th September - Time: 9:30 am to 5:00 pm
Venue: Equad Engineering Services, No 14, Bethel Nagar Main Road,
Seevaram, Perungudi, Chennai - 96 (www.equadservices.in)

Coverage: Approach to overall industrial mechanical design, Design sketching & modelling techniques, How to modularise mechanical design, Difference in design for standard parts and custom design, How to arrive at schematics of design, Distinguishes in design approach between prototype design & product design, Understanding how to identify critical and non-critical dimensions, Interpret how to predict efficiency and performance issues in design, Impact of design on product endurance, Detailed design and drafting in - cad software, Live industry examples - modules and exercises

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