



## Report on 3 days' workshop

### “Industry 4.0 - Industrial Design, Visualization & Conceptualization”

*Presented by*

**Er .Prabhu & Er. Mohan**

**( Equad Engineering Services , Chennai )**

**Date: 06.11.2023 to 08.11.2023 | Time: 9.00 AM to 4.00 pm**

**Organized by**

**School of Mechanical Sciences, BSACIST in Association**

**With**

**MSME (Govt of India) & Equad Engineering Services**

**Organized a workshop on**

#### Convenors

**Dr. H. Siddhi Jailani,**  
**Dean - School of Mechanical Sciences,**  
**Dr. A. S. Selva Kumar,**  
**Head of the Department,**  
**Department of Mechanical Engineering,**  
**BSA Crescent Institute of Science and,**  
**Technology.**

#### Coordinators

**Dr. S.Raviumar,**  
**Assistant Professor (Sr. Gr),**  
**Department of Mechanical**  
**Engineering,**  
**BSA Crescent Institute of Science and**  
**Technology.**

#### PREAMBLE

The Industry 4.0 - Industrial Design Visualisation & Conceptualisation” workshop was organized by Department of Mechanical Engineering along with MSME (Govt of India) and Equad Engg services Pvt Ltd. The workshop was inaugurated by Dr. H. Siddhi Jailani, Dean - School of Mechanical Sciences, Dr. A. S. Selva Kumar ,Head of the Department, Mechanical Engineering and Prof Dr.S.Rasool Mohideen, Mechanical Engineering . Around 16 students from Mechanical, Auto and Aero department participated in the workshop.

The Outcome of the workshop is to

- Understand how to envision & translate an industrial engineering problem into a Design Solution
- Emphasis on practical modelling for improved thinking in Dynamic Mechanical Design
- handle critical design parameters and processes for an industrial product.
- Enable Effective use of 2D Drafting & 3D Modelling and Analysis Platforms
- Systematically design modules for Prototyping and Production

The three days' workshop covered the following topics.

- Approach to overall industrial mechanical design
- Observe how Industry 4.0 impacts and affects Industrial Mechanical Design
- Design sketching & modelling techniques
- How to modularize mechanical design
- Difference in design for standard parts and custom design
- How to arrive at schematics of design
- Distinguish in design approach between prototype design & product design.
- Understanding how to identify critical and noncritical dimensions.
- Interpret how to predict efficiency and performance issues in design ( 4.0)
- Understand manufacturing sequence and machine tolerance impact in design (4.0)
- Impact of design on product endurance
- Detailed design and drafting in – CADD software.
- Live industry examples; modules and exercises
- Design – component / tool / equipment innovative design (4.0)

At the end of the workshop on 3<sup>rd</sup> day certificates were issued

The participant certificates were issued by Dr. H. Siddhi Jailani, Dean - School of Mechanical Sciences and Prof by Dr.S.Rasool Mohideen.

Finally Dr. S.Ravikumar, Coordinator concluded the workshop with Vote of the



Coordinator ( Dr.S.Ravikumar)

HOD (Mech)

## The participants list

| Sl no | Name                 | Email Address                   | Mb No       | Department | Year               |
|-------|----------------------|---------------------------------|-------------|------------|--------------------|
| 1     | Mohamed fazil M      | mhdfazil828@gmail.com           | 8618120890  | Aero       | 2nd Year Student   |
| 2     | Rohan.S              | senthilkumarrohan@gmail.com     | 7598681598  | Mech       | Final Year Student |
| 3     | Murtaza M Vadgam     | murtazavb5253@gmail.com         | 9092043770  | Mech       | Final Year Student |
| 4     | Y THOMSON            | thomsonwese11@gmail.com         | 8748828020  | Mech       | Final Year Student |
| 5     | Mohamed Fazil        | fazilmds2002@gmail.com          | 7305396138  | Mech       | Final Year Student |
| 6     | Raghul               | raghulprakesh27@gmail.com       | 7358537672  | Mech       | Final Year Student |
| 7     | MUHAMMED THAHIR M.O  | muhammadthahir1980@gmail.com    | 9443005112  | Mech       | Final Year Student |
| 8     | Kadhir Imran         | kadhirimran7860@gmail.com       | 8015411362  | Mech       | Final Year Student |
| 9     | Jagathratchagan D    | jagath20172000@gmail.com        | 8883279225  | Mech       | Final Year Student |
| 10    | Gunti Vijaya krishna | vijaykrishnagunti@gmail.com     | 9505247347  | Mech       | Final Year Student |
| 11    | Mohamed Hannan E     | 200021602023@crescent.education | 7871817974  | Mech       | Final Year Student |
| 12    | Mohamed Malik Ali    | mohamedmalik365@gmail.com       | 9994848209  | Mech       | Final Year Student |
| 13    | karthikeyan          | karthikeyan 7860@gmail.com      | 80255411362 | Auto       | 2nd Year Student   |
| 14    | Mohamed Aadhil. T    | mohamed711aadhil@gmail.com      | 9042411184  | Mech       | 3rd Year Student   |
| 15    | Mohammed Zuber       | mohammedzuber448@gmail.com      | 9940566461  | Mech       | Final Year Student |
| 16    | Aravind              | aravind2023mech @ gmail.com     | 9840466467  | Aero       | 2nd Year Student   |

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

**Crescent**  
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Deemed to be University u/s of the UGC Act, 1956

Department of Mechanical Engineering  
in Association with  
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3 days workshop on  
**Industry 4.0  
Industrial Design Visualization  
& Conceptualization**  
*(With hands on training)*

08.11.2023 to 10.11.2023

**Additional Features**

- Free Internship for Participants
- Placement Assistance

**UG | PG**

**Convenors**  
Dr. H. Siddhi Jailani, Dean SMS  
Dr. A. S. Selvakumar, HoD Mech.

**Coordinator**  
Dr. S. Ravikumar, AP, Mech.

B.S. Abdur Rahman™

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Seminer Hall, 3<sup>rd</sup> floor, Mechanical Sciences Block  
Department of Mechanical Engineering



