

Report on 3 days' National level workshop on
“Industry 4.0 - Industrial Design, Visualization & Conceptualization”
Presented by
Er .Balaji & Er. Antony
(*Equad Engineering Services , Chennai*)
Date: 06.08.2025 to 08.08.2025 | Time: 9.00 AM to 4.00 pm
Organized by
School of Mechanical Sciences, BSARCIST in Association
With
MSME (Govt of India) & Equad Engineering Services

<i>Convenors</i> Dr. H. Siddhi Jailani, Dean - School of Mechanical Sciences, Dr. A. S. Selva Kumar, Head of the Department, Department of Mechanical Engineering, BSAR Crescent Institute of Science and, Technology.	<i>Coordinator</i> Dr. S.Raviumar, Asst Prof (Sr. Gr) / Mech, <i>Co-Coordinator</i> Dr.G.Rajesh, Asst Prof (Sr. Gr) / Mech, BSAR 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 Science and A. S. Selva Kumar, Head of the Department, Mechanical Engineering and special address was given by Mrs Vaishnavi CEO Equad Engg Services. Around 30 students from Mechanical Engg, BSAR Crescent Institute of Science and Technology and M/s HL Mando Anand India Pvt Ltd 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
- To 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 certificates were issued to participants by

Dr. H. Siddhi Jailani, Dean - School of Mechanical Sciences and

Dr.S.Rasool Mohideen, Professor / Mechanical Department .

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



Coordinator (Dr.S.Ravikumar)

HOD (Mech)

The participants list

SL No	Name	Dept	Year	Institute
210021601069	Rithvik S Menon	Mech	III	BSAR Crescent Inst of sci and Tech
230021601004	Akif Abdul Rahman M A A	Mech	III	BSAR Crescent Inst of sci and Tech
230021601008	Ashraf Sheik R	Mech	III	BSAR Crescent Inst of sci and Tech
230021601010	Bharathwaj M	Mech	III	BSAR Crescent Inst of sci and Tech
230021601012	Gokul Raj.M	Mech	III	BSAR Crescent Inst of sci and Tech
230021601016	Khansa Durai S A	Mech	III	BSAR Crescent Inst of sci and Tech
230021601018	Mohamed Abdulla.J	Mech	III	BSAR Crescent Inst of sci and Tech
230021601021	Mohamed Muneeb	Mech	III	BSAR Crescent Inst of sci and Tech
230021601028	M. Mohamed Yusuf Hisham	Mech	III	BSAR Crescent Inst of sci and Tech
230021601029	G. Mohammed Imaad	Mech	III	BSAR Crescent Inst of sci and Tech
230021601031	Mohmed Shaki. R.U	Mech	III	BSAR Crescent Inst of sci and Tech
230021601034	M S Nithin	Mech	III	BSAR Crescent Inst of sci and Tech
230021601035	Pravin Rajan.V	Mech	III	BSAR Crescent Inst of sci and Tech
230021601037	Renim Younus Mayan	Mech	III	BSAR Crescent Inst of sci and Tech
230021601041	Susikaran.V.S	Mech	III	BSAR Crescent Inst of sci and Tech
230021601042	Tamilvanan M	Mech	III	BSAR Crescent Inst of sci and Tech
230021602001	Aftal Ahmed S	Mech	III	BSAR Crescent Inst of sci and Tech
230021602002	Arshan Ahmed A	Mech	III	BSAR Crescent Inst of sci and Tech
230021602003	Avinash Kj	Mech	III	BSAR Crescent Inst of sci and Tech
230021602004	Deepak M	Mech	III	BSAR Crescent Inst of sci and Tech
230021602006	Gokul Malligarjun Av	Mech	III	BSAR Crescent Inst of sci and Tech
230021602009	Lourthu Amala Samuel	Mech	III	BSAR Crescent Inst of sci and Tech
230021602010	Mohamed Mydeen S	Mech	III	BSAR Crescent Inst of sci and Tech
230021602012	Muhammad Abubakar J S	Mech	III	BSAR Crescent Inst of sci and Tech
230021602016	Chandru R	Mech	III	BSAR Crescent Inst of sci and Tech
230021602018	Kaviyarasan S	Mech	III	BSAR Crescent Inst of sci and Tech
230021601025	N.S.Mohamed Roshan	Mech	III	BSAR Crescent Inst of sci and Tech
230021602013	Sahid Fawaz S	Mech	III	BSAR Crescent Inst of sci and Tech
220021601013	Cyril Cherian Stanley	Mech	IV	BSAR Crescent Inst of sci and Tech
230021604018	Gautam Kumar	Mech	IV	M/s HL Mando Ananad India Pvt Ltd

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

 **Crescent**
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Department of Mechanical Engineering

in Association with

 **MSME (Govt. of India) & Equad Engineering Services Pvt Ltd** 

**3 days National Level workshop on
Industry 4.0
Industrial Design Visualization
& Conceptualization**

(With hands on training)

06.08.2025 to 08.08.2025

 **UG | PG**

Additional Features

- ➔ Free Internship for Participants
- ➔ Placement Assistance



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

Coordinator
Dr. S. Ravikumar, AP, Mech.

Co-Coordinator
Dr. G. Rajesh, AP, Mech.

 **Crescent**
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

Department of Mechanical Engineering

in Association with

 **MSME (Govt. of India) & Equad Engineering Services Pvt Ltd** 

✧ **3 days National Level workshop on** ✧

Industry 4.0

Industrial Design Visualization & Conceptualization

(With hands on training)

06.08.2025 to 08.08.2025

Seminer Hall, 3rd floor, Mechanical Sciences Block
Department of Mechanical Engineering

 

. Inauguration of 3 days National level Workshop on Industry 4.0 -6.8.2025 Inauguration



Valedictory function of 3 days National level Workshop -8.8.2025

