



Report on 3 days' National level workshop on
“Industry 4.0 - Industrial Design, Visualization & Conceptualization”
Presented by
Er .Prabhu & Er. Vijayaraj
(*Equad Engineering Services , Chennai*)
Date: 07.08.2024 to 09.08.2024 | 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
Organized a workshop on

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| <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.M.Thirumurugan, Asso Prof / Mech, BSAR Crescent Institute of Science and Technology. |
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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. Around 25 students from Mechanical Engg, BSAR Crescent Institute of Science and Technology, 8 students from SASTRA Deemed University, Agni College of Technology and SSN College of Engineering 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 |
|-------|--------------------|-----------------------|------|------------------------------------|
| 1 | Mohammad jasim.F | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 2 | suhail ahamed.N | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 3 | thoufiq Umar.M | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 4 | tanveer ul haq | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 5 | Mohammad basharath | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 6 | Shaheen musthaq | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 7 | Sabeek ahamed | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 8 | Agnel Magnus.M | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 9 | manoj.K | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 10 | Aravindhhan | Mech | III | BSAR Crescent Inst of sci and Tech |
| 11 | Najmudeen | Mech | III | BSAR Crescent Inst of sci and Tech |
| 12 | Sunil kumar | Mech | III | BSAR Crescent Inst of sci and Tech |
| 13 | Bharanidharan | Mech | III | BSAR Crescent Inst of sci and Tech |
| 14 | Bala sabarish | Mech | III | BSAR Crescent Inst of sci and Tech |
| 15 | Mohamed shafiudeen | Mech | III | BSAR Crescent Inst of sci and Tech |
| 16 | Mohamed fazil | Mech | III | BSAR Crescent Inst of sci and Tech |
| 17 | Haneef jaffer .A | Mech | III | BSAR Crescent Inst of sci and Tech |
| 18 | Mohammed moshin | Mech | III | BSAR Crescent Inst of sci and Tech |
| 19 | Ayyash | Mech | III | BSAR Crescent Inst of sci and Tech |
| 20 | Fazil | Mech | III | BSAR Crescent Inst of sci and Tech |
| 21 | Irshat | Mech | III | BSAR Crescent Inst of sci and Tech |
| 22 | Fouzan qasim | Mech | III | BSAR Crescent Inst of sci and Tech |
| 23 | Balamurugan | Mech | III | BSAR Crescent Inst of sci and Tech |
| 24 | Nithya.N | Mech | III | SASTRA Deemed University |
| 25 | Muhammed younus | Mech | IV | BSAR Crescent Inst of sci and Tech |
| 26 | Janavarthini .S R | Digital Manufacturing | IV | SASTRA Deemed University |
| 27 | Harshitha.K | Digital Manufacturing | IV | SASTRA Deemed University |
| 28 | Nithyalakshmi.D | Digital Manufacturin | IV | SASTRA Deemed University |
| 29 | Sruthi sri.M | Digital Manufacturing | IV | SASTRA Deemed University |
| 30 | Hariharani.J | Digital Manufacturing | IV | SASTRA Deemed University |
| 31 | Abinaya | Digital Manufacturing | IV | SASTRA Deemed University |
| 32 | Venkatasubramanian | Mech | IV | Agni College of Engg |
| 33 | Sidharth | Mech | IV | SSN College of Engg |

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

B.S. Abdur Rahman™

Crescent
Institute of Science & Technology
Owned to be University and U of the UGC Act, 1956

Department of Mechanical Engineering

in Association with

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3 days National Level workshop on
Industry 4.0
Industrial Design Visualization & Conceptualization
(With hands on training)

07.08.2024 to 09.08.2024

UG | PG

Additional Features

- ⇒ Free Internship for Participants
- ⇒ Placement Assistance

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

Coordinator
Dr. S. Ravikumar, Asst. Prof., Mech.

Co-Coordinator
Dr. M. Thirumurugan, Asso. Prof., Mech.



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



. Inauguration of 3 days National level Workshop on Industry 4.0 -7.8.2024



Valedictory function of 3 days National level Workshop -9.8.2024



