

Faculty Development Program (Online) on “Sustainable Product Design and Manufacturing”

January 10-14, 2022



**Organized by Faculty Development Centre
(FDC)-SMVDU**

**under Pandit Madan Mohan Malaviya
National Mission on Teachers and
Teaching of MOE, GOI, Shri Mata Vaishno
Devi University, Katra, Jammu in
Collaboration with School of Mechanical
Engineering**



Shri Mata Vaishno Devi University

A State University recognized under Section 2 (f) & 12 (B)
of UGC Act of 1956

www.smvdu.ac.in

Introduction and objectives of the course

The objective of this course is to provide the fundamentals of sustainability and its role in present day design and manufacturing environment. Increased consciousness among the product designers, manufacturers, environmentalists and the end users call for a greater role of all in the product design and development process. The course will primarily focus on various aspects of sustainability which is integrated in the design and manufacturing processes. How sustainability plays a critical role in today's industrialized society will also be a key feature of this course. Various industrial problems where sustainability issues are addressed will also be discussed during this course. The course contents are designed to cover a large number of design and manufacturing issues through sustainability.

Some decision-making methodologies involving some case studies of sustainable design and manufacturing will also be discussed. The lectures will be followed by discussions and some minor problem-solving exercises.

The course will provide a platform to participants where they will be able to understand various dimensions of sustainable design and manufacturing

Course Contents

- ✓ Introduction to Sustainability
- ✓ Design Process and Concurrent Engineering
- ✓ Modelling Techniques in Design
- ✓ Sustainable Manufacturing
- ✓ Lean and Six Sigma in Sustainable Manufacturing
- ✓ Life Cycle Assessment in Design and Manufacturing
- ✓ Quality Control Trends in Manufacturing
- ✓ Case Studies on Sustainability

Important features

- The need of analytical and numerical methods in experimental research works will also be demonstrated.
- Faculty with research expertise in Sustainable Design and Manufacturing shall interact with the participants during the course.

Resource Persons

The course content will be delivered by the eminent personalities in the field from IITs, Central universities, NITs and other reputed institutions. Apart from Academic institutions, experts from industry and art of living will supplement the practical aspect of the course contents.

Target Audience

- Faculty members of approved Institutions/Universities
- High priority for ISTE Life members

Registration

- Participants are selected based on early registration as the number of participants limited
- Last date for registration: **8th January 2022**
- **No Registration Fee**

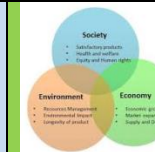
Google form for Registration Link

<https://forms.gle/TQswvBKDh6FYnKdY7>

Please fill the google form and endorsed both

Certificate

- A test shall be conducted at the end of the program
- The certificate shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.



Chief Patron

Padma Shri, Professor R.K. Sinha
Vice Chancellor, Shri Mata Vaishno Devi University, Katra

Patron

Professor Eswaramoorthy Muthusamy
Dean FoE, Shri Mata Vaishno Devi University

Chairman

Dr. Suparn Kumar Sharma, Coordinator FDC-SMVDU and
Dean, Faculty of Management

Coordinator

Dr. Raghvendra Kumar Mishra, Associate Professor,
School of Mechanical Engineering (SOME)

Organizing Secretary

Dr. Ankush Anand, Associate Professor, SOME

Advisory Committee

Dr. Balbir Singh, Associate Professor, SOME
Dr. Sanjay M. Sharma, Assistant Professor, SOME

Organizing Committee

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Dr. Mir Irfan Ul Haq, Assistant Professor, SOME
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Dr. Rajiv Kumar, Assistant Professor, SOME
Dr. Amit Kr. Sinha, Assistant Professor, SOME
Er. Varun Dutta, Assistant Professor, SOME
Er. Kapil Chopra, Assistant Professor, SOME

Important Dates

Program Dates: January 10-14, 2022

Last date for Registration: 8th January 2022

Contact: Dr. Raghvendra Kumar Mishra

Mobile: 7889963557, rk mishra@smvdu.ac.in

