

TEQIP- III Sponsored
Faculty Development Program

on

**Sustainable Design and Manufacturing
(SDM-2018)**

Feb. 12th -16th, 2018



Organised by:
School of Mechanical Engineering,
Shri Mata Vaishno Devi University,
Katra, J&K

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 calls 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

Tentative List of Resource Persons:

- Prof. K. Narasimhan, IIT- Bombay
- Prof. Vinay Kumar, BIT-Ranchi
- Dr. G. Dutta, IIITDM-Jabalpur

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.

Course Material

Soft copies of the lecture notes/presentations will be made available to participants at the end of lecture/presentation.

Who Can Attend?

Any faculty member, research scholar, participants from govt. and private departments and industries working in the field of engineering and applied sciences are eligible.

Category 1: The selected faculty members from AICTE approved and Govt. institutions have to pay Rs. 1000 (refundable) as registration fees. They will be eligible for to and fro railway fare via shortest route in III AC and free lodging and boarding in the University guest house/hostels during course period (on Twin sharing basis). Candidates attending the course in full only will be eligible for TA. For all other participants, no TA will be paid by SMVDU, Katra. The security money will be returned back to the faculty members account only if he/she completes the course.

Category 2: Participants from Government Departments and Industries are also eligible, provided they meet their own T.A. and D.A. and pay a course fee @ Rs. 3000/-.

Category 3: Participants from industry provided they meet their own T.A. and D.A. and pay a course fee @ Rs. 4000/-.

How to Apply and Register?

By Email – Scanned copy of the filled in application form duly endorsed by the forwarding authority to be mailed at ankush.anand@smvdu.ac.in. Application format is given in this brochure. *The last Date for Submitting Application Form is 05th Feb.2018.*

Mode of Payments

The registration fee is to be paid online in Jammu and Kashmir Bank, Branch : SMVD University, SMVDU (IFSC Code : JAKA0SMVDUN) Account No. 04770401000000023 in favor of Registrar SMVDU through any nationalized bank and payable at Jammu, add remark “FDP SDM-2018” for the transaction. After payment is made, participants need to send an email with transaction ID to ankush.anand@smvdu.ac.in . The selected candidates will be informed through email within a week.

About SMVDU:

Shri Mata Vaishno Devi University has been established under the act “Shri Mata Vaishno Devi University Act (Act. No. XII). 1999” of Jammu and Kashmir Legislative Assembly, as a residential and highly technical education institution of the highest standards. The University has been established with a foundation grant from Shri Mata Vaishno Devi Shrine Board. The University is recognized by the University Grants Commission under Section 2(F) and 12(B) of UGC act 1956. The University campus is spread over an area of 474 acres in scenic surroundings of Trikuta hills, in the vicinity of Katra.



About School of Mechanical Engineering, SMVDU

The School of Mechanical Engg. in SMVDU came into existence in the year 2006, offering B.Tech., M.Tech. and Ph.D. programs. Department is fortified with well equipped labs and specialized machines like HMT lathes, CNC Turning, VMC, EDM, Tribometer, etc. Presently research in latest areas such as Tribology, Advanced Machining Methods, Modelling and Simulation, Crack Mechanics, Energy, etc. is being taken by faculty, research scholars and, students.

Teaching Faculty

Faculty members from the School of Mechanical Engineering, SMVDU Katra shall also be teaching the course contents. Subject experts from other premier institutions will be invited for delivering the special lectures with interactive sessions.

Patron:

Prof. Sanjeev Jain, Hon'ble Vice Chancellor, SMVDU

Chairman:

Prof. V. Verma, Dean Faculty of Engineering, SMVDU

Co-Chairman:

Prof. D.B Laata, Head, School of Mechanical Engineering, SMVDU

Programme Coordinator:

Dr. Ankush Anand Associate Professor, SMVDU

Organizing Committee:

- Dr. I.K Pandita, Professor
- Dr. Balbir Singh, Associate Professor
- Dr. R.K.Mishra, Associate Professor
- Er. Sanjay M. Sharma, Assistant Professor
- Er. Yatheshth Anand, Assistant Professor
- Er. Sanjay Sharma, Assistant Professor
- Er. Varun Dutta, Assistant Professor
- Er. Mir Irfan Ul Haq, Assistant Professor
- Er. Kapil Chopra, Assistant Professor
- Er. Ankush Raina, Assistant Professor
- Dr. Azher Jameel, Assistant Professor
- Er. Rajiv Kumar, Assistant Professor
- Er. Amit Kr. Sinha, Assistant Professor
- Er. Deepak Byotra, Workshop Suptd.

Contact Us:

Dr. Ankush Anand,
Associate Professor,
Course Coordinator (SDM-2018)
Shri Mata Vaishno Devi University, Katra, J&K-
182320
Mob: -09797598684
E mail: ankush.anand@smvdu.ac.in

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- 1.Name.....
- 2.a) Age.....b) Sex: M/F.....
3. Designation & pay scale.....
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4. Organization.....
5. Address for correspondence
.....
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- Email:.....
- Phone/Mobile.....
6. Highest Academic Qualification
7. Specialisation.....
8. Experience (in years)
a) Teaching.....
b) Industrial.....
9. Amount of T.A. required as per entitlement mentioned in the brochure (only for AICTE approved college teachers):
10. Mode of Payment (√):NEFT/ IMPS/ Challan/ Other
11. Transaction Date:
Date.....
- PlaceSignature of the Applicant
FORWARDING LETTER
Prof./Dr./Mr./Ms./Mrs./..... is an employee of our institute and his/her application is hereby approved.

Date: Signature of forwarding Authority

Designation: Official Seal: