

**VISVESVARAYA NATIONAL
INSTITUTE OF TECHNOLOGY
NAGPUR – 440 010**

(Institute of National Importance by an
Act of Parliament of India, 2007)



Sponsored by ATAL academy
organizes Five- days online short-term
training program (O-STTP) On

**Introduction to Discrete-
event modelling and
Simulation**

26th to 30th July 2021 (5-days)

Mon – Fri, online 2 sessions per day (Session

-1 (AM): 9:00 to 12:00 hrs.

Session -2 (PM): 13:00 to 16:00 hrs.)

Organized by

**Department of Mechanical
Engineering, VNIT Nagpur – 440
010, M.S., India**

ABOUT VNIT NAGPUR:

Visvesvaraya National Institute of Technology, Nagpur (VNIT Nagpur), formerly Visvesvaraya Regional College of Engineering, Nagpur (VRCE), is a public engineering and research institution in India. It is located was established in June 1960 by the Government of India and later named in honor of engineer, planner and statesman, Sir Mokshagundam Visvesvaraya. VNIT Nagpur is centrally-funded and belongs to the National Institutes of Technology (NIT) system. In 2007, the institute was conferred the status of Institute of National Importance by an Act of Parliament of India. The institute awards Bachelors, Masters and Doctoral degrees in engineering, technology and architecture.

The VNIT Nagpur campus is located in the western part of Nagpur city near Ambazari Lake, about 7 kilometres (4.3 mi) from Nagpur Railway Station and 8 kilometres (5.0 mi) from Dr. Babasaheb Ambedkar International Airport, Nagpur. There are three main entrances to the 225 acres (91 ha) campus: the Main Gate on South Ambazari Road, the Bajaj Nagar Gate and the Yashwant Nagar Gate. Most students live on the campus, which has over 12 men's hostels and 2 women's hostels. For more detail, please visit website: vnit.ac.in

ABOUT ATAL ACADEMY:

All India Council for Technical Education (AICTE) was set up in November 1945 as a national-level Apex Advisory Body to conduct a survey on the facilities available for technical education and to promote development in the country in a coordinated and integrated manner. AICTE Training and Learning (ATAL) Academy is established with the vision “To empower faculty to achieve goals of Higher Education such as access, equity and quality”. AICTE Training and Learning (ATAL) Academies conducted a series of Training Programs in various emerging areas across the country in the year 2019-20. Total 185 training programs were conducted in the year 2019-20. 500 more FDP will be conducted in the Financial Year 2020-21 across the country in various thrust areas and emerging areas in discipline like Engineering, Management , Arts & Craft, Design & Media.

OBJECTIVE OF WORKSHOP:

The O-STTP objective is to provide both an understanding of, and hands-on experience with tools and technique used in Discrete-event Modelling and Simulation. By the end of this O-STTP, it is expected to develop skills like:

- Basic Understanding of Discrete-

event Simulation (DES).

- Tools and techniques for simple and complex industrial systems modelling.
- Hands-on use of DES copyright software.
- Analysis of “What-if” and “What is” techniques
- Developing Results and solutions for Industrial scenarios like breakdowns, bottleneck, space, resources, inventories, etc.

TOPICS TO BE COVERED:

The tentative topics and hands-on training are to be covered as scheduled timings (09:00 to 12:00 Hrs and 13:00 to 16:00 Hrs) on WebEx platform. Some of the topics planned are: -

Day1: Inaugural Session, Introduction of DES in Industrial Engineering (IE), Understanding IE / DES Terminologies, Set up Simul8

Day2: Introduction to Simul8 : Basic Features, Introduction to Health Care, Problem Statement and Model Building, Health Care : Model Building & Analysis, Review Final Model + Q&A Session.

Day3: Introduction to Simul8 : Basic Features - Part 2, Introduction to Supply Chain Problem Statement and Model Building, Supply Chain : Model Building & Analysis, Review Final Model

+ Q&A Session.

Day4: Introduction to Simul8 : Advanced Features, Introduction to Manufacturing Problem statement and Model building, Manufacturing : Model Building & Analysis, Review Final Model + Q&A Session.

Day5: Evolution of DES in U.S. & Simulation Methodologies, Analysis Using DES, Introduce DES into Engineering Curriculum, How DES is being taught in colleges in US / Q&A Session, Online Exam/ Vote of Thanks.

Timings:

Session -1 (AM): 9:00 to 12:00 hrs.

Session -2 (PM): 13:00 to 16:00 hrs.

RESOURCE PERSONS:

Faculties from VNIT Nagpur and active Professionals.

Coordinator and Resource Person

Dr. Nitin Kumar Lautre
Department of Mechanical Engg.
Visvesvaraya National Institute of
Technology (VNIT) Nagpur – 440 010,
M.S., India.

Mobile : +91-8909737466 ;

Email : bidunitin@gmail.com

REGISTRATION THROUGH
ONLINE MODE ONLY

<https://atalacademy.aicte-india.org/signup> OR through website:
<https://vnit.ac.in/index.php/events-3/>

- There is no Registration fee. However, prior Registrations is Mandatory, as seats are limited (200 Nos. subjected to change). The selection criterion is reserved.
- Participant must ensure internet connectivity for scheduled slots.
- Participant should be from AICTE approved institutions. Participants can be Faculty members, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and staff of host institutions.
- Attendance (> 80%) and examination (marks > 60%) for participation certificate and DES understanding is mandatory.

Last date for online application: 20th July 2021, (TUESDAY).