



School of  
**Civil Engineering**



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**MIT WORLD PEACE  
UNIVERSITY** | PUNE  
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS



# **NIRMITEE<sub>2021</sub>**

## **DIGITAL**

**29<sup>th</sup> April – 30<sup>th</sup> April**

<http://www.mitwpunirmitee.com/>

## **SOFTCON**

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Number of Participants in one team: - **1**

Registration Fees: Rs 100/- per participant

### **Faculty Coordinator**

**Prof. Adinath Yadav**

**Prof. Abhay Shelke**

### **Event Heads**

**Sakshi Raut- 9822415701**

**Sampada Khaladkar- 9284292871**

### **Email-id:**

[softcon.nirmitee21@gmail.com](mailto:softcon.nirmitee21@gmail.com)

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## **INTRODUCTION**

A significant revolution with software's usage in the civil engineering business and construction process has been presented. Softwares reduce all the extensive work in designing and managing the construction site. Nowadays almost all the design consultancies and construction firms use softwares in their daily practices.

Hence, we at Nirmitee encourage the students by introducing this event - "SOFTCON" to show their talent using softwares such as AutoCAD, MSP, Revit, Microsoft Excel etc.



**Each individual software will be conducted as an independent sub-event. The participants must choose any one of the softwares mentioned below.**

The softwares which have been included for the event are:

- **AutoCAD**
- **Microsoft Project**
- **REVIT(BIM)**

**If the participants do not have the software installed in their system, then the team will assist them throughout the installation process.**

**Note:** Special prizes for diploma students.

### **EVENT FORMAT:**

Each software event would be conducted in the format given below:

- **Round 1:** Submissions of work via email.  
(Shortlisting of entries via judges)
- **Round 2:** Interviewing shortlisted candidates.



## **ROUND DETAILS:**

The event will be conducted in 2 rounds.

### **ROUND 1: Submissions of entries via email.**

For the first round, problem statements will be given on the spot, and the participant has to develop a solution for the given problem statement as per the requirements. The candidates should make sure that the submitted work is authentic and credible to excel in this round.

The time limit for this round will be **90 min.**

The participant must submit their work via email to [softcon.nirmitee21@gmail.com](mailto:softcon.nirmitee21@gmail.com)

### **Shortlisting of entries**

- Participants will then be shortlisted with respect to criterion set forth by the judges.
- Selected candidates will proceed for Round 2.

### **ROUND 2: Interviewing shortlisted candidates**

The participants shortlisted from round 1 will have to appear for the Final round. The final round includes a Question Answer Round based on your work in Round 1. It may also include basic questions about AutoCAD/ Microsoft Project/Revit/Microsoft Excel (for whichever software you are participating in.)

### **NOTE:**

**The participants must submit their work as soon as the problem statement is solved in required format.**

**Early and accurate submissions will be given more preference.**

**Rules for each software are mentioned below.**

## **RULES:**

### **AUTOCAD:**

AUTOCAD is one of the basic software for drafting and documentation of the construction projects which is developed by Autodesk. AutoCAD is widely used in the civil engineering field because of its ability to plan sites in a lot easier manner than hand drawings. One can notice this software usage in almost all structural design consultancies and firms especially in India.

#### **The rules for AutoCAD event are as follows :**

1. Only a single participant is allowed.
2. Time limit: 90 minutes (for Round 1).
3. The participant must already have AutoCAD 2018 installed in their system.
4. The participants will be given guidelines before starting their work.
5. The participant must submit their work as soon as they are done solving the problem although an additional time of 15 min is provided for submission.
6. Early and accurate submissions will be given more preference.
7. Late submissions will be disqualified.
8. The participants must always be present in the Zoom meeting and must keep their camera on.
9. The completed task must be sent via email to [softcon.nirmitee21@gmail.com](mailto:softcon.nirmitee21@gmail.com) in pdf and .dwg format.
10. Decisions taken by the judges will be final and binding to all.



## **MICROSOFT PROJECT:**

Microsoft Project (MSP) is basically the planning software. It is used to plan the project by linking activities with their duration to find out optimum duration for the project. Using MSP we can apply the resources to each activity and are able to draw the cash flow charts and resource allocation charts.

### **The rules for Microsoft Project event are as follows:**

1. With your knowledge of civil engineering and logic, interlink the activities which are given in the project.
2. The participants will be given guidelines before starting their work.
3. Time limit: 90 minutes (for stage 1).
4. The participant must submit their work as soon as they are done solving the problem although an additional time of 15 min is provided for submission.
5. Early and accurate submissions will be given more preference.
6. Late submissions will be disqualified.
7. The participants must always be present in the Zoom meeting and must keep their camera on.
8. The completed task must be submitted via email to [softcon.nirmitee21@gmail.com](mailto:softcon.nirmitee21@gmail.com) in pdf and .mpp format.
9. The most optimum duration is preferable.
10. The activity data will be given in Excel. Each participant will be able to copy data on their project sheet with proper commands (Setting the calendar as per holiday and working day given in the problem is expected).
11. After linking all the activity logically participant must submit the following in the Excel format:
  - a. Critical path of the project
12. Time limit for each participant is 90 minutes (for round 1) and participants with the minimum time with least error will be declared as the winner.
13. The decision of judges is final and binding to all.



## **REVIT (BIM):**

Autodesk Revit is building information modelling software for architects, landscape architects, structural engineers, MEP engineers, designers and contractors.

We can create the model using given data regarding the structure and further we can also modify and generate different drawings of a structure in AutoCAD format. We can also analyze the model and determine the material requirement for the structure (bar bending schedule, quantities).

### **The rules for REVIT event are as follows:**

1. The participant must be able to operate the software on his own.
2. Time limit: 90 minutes (for stage 1).
3. The participants will be given guidelines before starting their work.
4. The participant must submit their work as soon as they are done solving the problem although an additional time of 15 min is provided for submission.
5. Early and accurate submissions will be given more preference.
6. Late submissions will be disqualified.
7. The participants must always be present in the Zoom meeting and must keep their camera on.
8. The completed task must be submitted via email to [softcon.nirmitee21@gmail.com](mailto:softcon.nirmitee21@gmail.com) in .rvt and pdf format.
9. Judges' decisions will be final and binding.

### **NOTE:**

This document is liable to minor changes. Participants will be notified for the same.

Keep checking official website of NIRMITEE 2021: <https://www.mitwpunirmitee.com/>