

# JANSONS INSTITUTE OF TECHNOLOGY

APPROVED BY AICTE, NEW DELHI - AFFILIATED TO ANNA UNIVERSITY, CHENNAI

ACCREDITED BY NAAC & ISO 9001 : 2015 CERTIFIED INSTITUTION

COIMBATORE - 641 659, TAMIL NADU, INDIA

www.jit.ac.in ; info@jit.ac.in ; Ph : 0091 - 421 - 2264900 (100 LINES) ; Fax : 0091 - 421 - 2264999.

## DEPARTMENT OF MECHANICAL ENGINEERING

(in association with)

INDIAN INSTITUTE OF PRODUCTION ENGINEERS - IIPE

# JOY OF CODING

CNC PROGRAMMING CONTEST FOR AN INNOVATIVE PRODUCT DESIGN



Friday, 25 March 2022



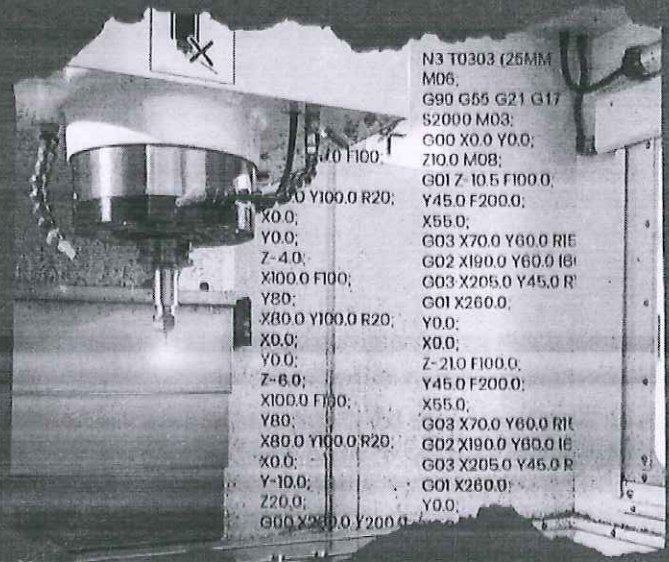
03:15 - 04:15 PM



CAD Laboratory



INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)



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Jansons Institute of Technology



JIT eEDU



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# Jansons Institute of Technology

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Coimbatore, Tamil Nadu – 641659  
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## Indian Institute of Production Engineers

in association with

### JIT Institution's Innovation Council (JIT IIC)

organises

a technical contest on

## “Joy of Coding”

CNC Programming contest for an Innovative Product Design

on 25-03-2022 at CAD Laboratory

### AGENDA

03:15 PM	<b>Introduction about the Contest</b> IIPE Faculty Coordinator
03:20 PM	<b>Round 01 : MCQ</b>
03:30 PM	<b>Round 02 : Innovative Design</b> Profile Creating and Program Writing
03:45 PM	<b>Round 02 : Innovative Design</b> Program Typing
04:00 PM	<b>Round 02 : Innovative Design</b> Program Execution in Online Simulation Tool
04:15 PM	<b>Program Evaluation</b>

  
**Faculty Coordinator**  
(Alexander F AP/Mech)





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## “Joy of Coding”

CNC Programming contest for an Innovative Product Design  
on 25-03-2022 at CAD Laboratory

### PARTICIPANTS ATTENDANCE

The following students participated in the Technical Contest “Joy of Coding”

Sl. No.	Register No.	Name	Year & Department	Attendance
1	711119114001	Arun Eswar M	III Mech	M. Arun Eswar
2	711119114304	Kumaraguru KS	III Mech	K. S. Kumaraguru
3	711119114008	Siva S	III Mech	S. Siva
4	711119114307	Thanusu R	III Mech	R. Thanusu
5	711119114007	Noah Christy	III Mech	Noah Christy
6	711119114004	Hemanathan A K	III Mech	A. K. Hemanathan
7	711118114711	Vishal V	IV Mech	V. Vishal
8	711119114703	Manoj T	IV Mech	T. Manoj
9	711118114711	Sri Krishnan N	IV Mech	N. Sri Krishnan
10	711119114703	Subash G	III Mech	G. Subash
11	711118114708	Kilnton	IV Mech	Kilnton
12	7111120114301	Akash	II Mech	A. K. V. Akash
13	7111120114008	Sahil Mangesh Gujar	II Mech	Sahil
14	7111120114016	Chaithanya Kumar Reddy P	II Mech	Chaithanya
15	7111120114302	Jesfer Arun J	II Mech	J. Jesfer
16	7111120114029	Vishal S K	II Mech	S. K. Vishal
17	7111120114303	Karthick R	II Mech	R. Karthick
18	7111120114006	Gokul Krishnan V	II Mech	Gokul
19	7111120114020	Gokul S	II Mech	Gokul S
20	7111120114025	Shathrak K	II Mech	Shathrak
21	7111120114009	Bhargav M	II Mech	M. Bhargav
22	7111120114022	Sk.Masthan Vali	II Mech	Sk. Masthan



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## “Joy of Coding”

## CNC Programming contest for an Innovative Product Design

on 25-03-2022 at CAD Laboratory

[illegible]

Certified that all the students/faculty participated in the event.

Date: 25.03.2022

**Faculty Coordinator**  
(Alexander F AP/Mech)





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## Event Report

**Title** : "Joy of Coding" CNC Programming contest for an Innovative Product Design

**Date** (from & to) : 25.03.2022 **Time** (from & to) : 03.15 – 04.15 PM


**Venue** (online / offline) : CAD Laboratory , JIT


**Organised by** : Indian Institute of Production Engineers (IIPE)


**In association with** : JIT Institution's Innovation Council (JIT IIC)

**Student Activity** : Yes / No

JIT Website [http://jit.ac.in/club\\_event\\_details.php?eid=483](http://jit.ac.in/club_event_details.php?eid=483)

 <https://www.facebook.com/250442415535499/photos/a.450285145551224/1054425281803871/>

 [https://www.instagram.com/p/Cao91T5PbB\\_/](https://www.instagram.com/p/Cao91T5PbB_/)

 [https://twitter.com/JIT\\_Offl/status/1499346747427934208/photo/1](https://twitter.com/JIT_Offl/status/1499346747427934208/photo/1)

## Event Objective

The objective of the Technical Contest is to train the students in CNC based Programming and its applications in Product Designing

## Event Summary

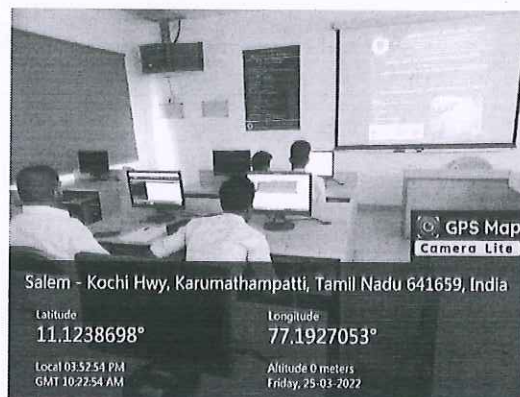
Coding is the computer numerical control programming language used mainly in computer-aided manufacturing to control automated machine tools. CNC programming (Computer Numerical Control Programming) is utilized by manufacturers to create program instructions for computers to control a machine tool. CNC is highly involved in the manufacturing process and improves automation as well as flexibility. A Technical Contest - "Joy of Coding : CNC Programming contest for an Innovative Product Design" is planned for the Mechanical Engineering Students by the Indian Institution of Production Engineers (IIPE) in association with JIT IIC on March 25, 2022 from 03.15 PM onwards. The main Objective of the Technical Contest is to train the students in CNC based Programming and it's important applications in Product Designing. The contest comprises of two rounds, Round 01: MCQ on CNC Programming; Round 02: Develop Coding for an innovative design and execute it in the online simulation tools. The Design of the profile is focused towards the heat transfer enhancement in a flat plate. The event planned for a team (Maximum of two members) in the CAD Laboratory, JIT. Registration form was shared to all the students of mechanical engineering department and Interested students actively registered for the event. The teams were evaluated based on Innovative Profile making, Program to generate the profile and Execution of the coding program. Based on the Scores obtained in the two rounds, the best performing teams were selected and honoured with Appreciation E-Certificate and all the participants are provided with an E-Certificate.



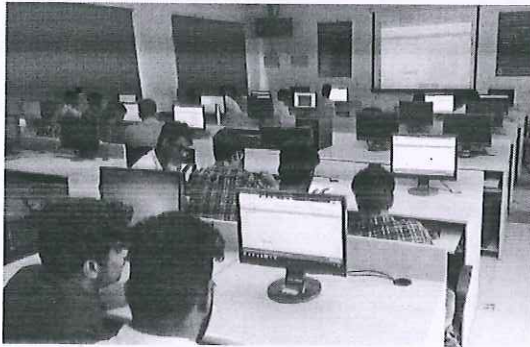
## Event Photographs



### Round 01 : MCQ Attended by the Participants



## Round 02 : Profile Making for an Innovative Design



### Writing of Coding for the Profile Created



### Execution of Coding Program by the Participants



### Execution of Program in the Online Simulation Tool



Paper clipping about the event "The Hindu – 25.03.2022"

## Event Outcomes

Students will be aware of the different application of CNC programming in the Industrial Product design and manufacturing

### Event Feedback

How would you rate the event in terms of preparation, flow, and content?	<p>Excellent 39%</p> <p>Very Good 52%</p> <p>Good 8.70%</p> <p>Fair</p>
The contest planning and execution related to the theme?	<p>Excellent 69%</p> <p>Very Good 31%</p> <p>Good</p> <p>Fair</p>
The content and activities of the event has increased my knowledge.	<p>Strongly Agree 31%</p> <p>Agree 69%</p> <p>Neutral 0</p> <p>Disagree 0</p>
Overall experience of the event.	<p>Very Satisfied 69%</p> <p>Satisfied 31%</p> <p>Neutral</p> <p>Dissatisfied</p>
Suggestion for Improvements (If any)	-

### No. of Participants / Benefices

Total (Participants / Benefices)	Students	Faculty	Students (Outside institution)	Faculty (Outside institution)
23	23	-	-	-

Date of report submission: 28.03.2022

  
**Faculty Coordinator**  
 (Alexander AP/Mech)

  
**Head of Department**  
 (Dr.M.Muthukumaran)



  
**Principal**  
**JANSONS INSTITUTE OF TECHNOLOGY**  
**KARUMATHAMPATTI**  
**COIMBATORE - 641 659.**





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## “Joy of Coding”

CNC Programming contest for an Innovative Product Design  
on 25-03-2022 at CAD Laboratory

### WINNERS

Event	Position	Name (Year & Department)
Joy of Coding Contest	First	Mr. Noah Christy , Mr. Hemanathan A K III Year, Mechanical Engineering
	Second	Mr. Vishal V, Mr. Manoj T IV Year, Mechanical Engineering
	Third	Mr. Sri Krishnan N IV Year, Mechanical Engineering Mr. Subash G III Year, Mechanical Engineering
		Mr. Vishal S K, Mr. Jesfer Arun J II Year, Mechanical Engineering

Date: 28.03.2022

  
Faculty Coordinator  
(Alexander AP/Mech)

  
HOD /Mech

  
Principal  
**PRINCIPAL**  
**JANSONS INSTITUTE OF TECHNOLOGY**  
**KARUMATHAMPATTI**  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Certificate of Excellence



INSTITUTION'S  
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COUNCIL  
(Ministry of Education Initiative)

This certificate is awarded to

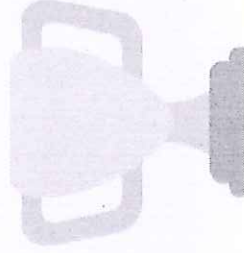
**Mr. HEMANATHAN A K**

for his active participation and securing of "FIRST" Position in the  
"JOY OF CODING - CNC Programming contest for an Innovative Product Design"  
conducted by Indian Institution of Production Engineers (IIPE) and JIT IIC

on March 25, 2022

IIPE FACULTY IN-CHARGE  
Mr. F. Alexander

HEAD OF THE DEPARTMENT  
Dr. M. Muthukumar





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## Certificate of Excellence



This certificate is awarded to

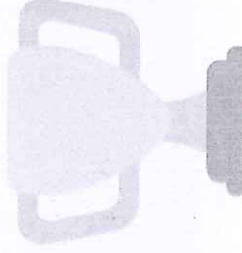
**Mr. SRI KRISHNAN N**

for his active participation and securing of "THIRD" Position in the  
"JOY OF CODING - CNC Programming contest for an Innovative Product Design"  
conducted by Indian Institution of Production Engineers (IIPE) and JIIT IIC

on March 25, 2022

IIPE FACULTY IN-CHARGE  
Mr. F. Alexander

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## Participation Certificate



This certificate is awarded to

**Mr. MENATI LOKESH**

for his active participation in the

"JOY OF CODING - CNC Programming contest for an Innovative Product Design"  
conducted by Indian Institution of Production Engineers (IIPE) and JIIT IIC

on March 25, 2022

*Shan:*

IIPE FACULTY IN-CHARGE  
Mr.F.Alexander

*g.g.ochunni*

JIT IIC PRESIDENT  
Dr.M.M.Matheswaran

*DD*

HEAD OF THE DEPARTMENT  
Dr. M.Muthukumaran