



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.

Recognized by Government of Karnataka.

A+, Accredited by NAAC & NBA (ECE & CSE)

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Ph: 08258-262725;

Mob:722262724,7026262725,mail:principalaiet08@gmail.com

Date -24/07/23

To

IQAC Chairman

AIET, Mijar

Respected Sir

Sub: Requesting for permission conduct a Workshop

We are happy to inform you that Department of Mechanical Engineering, is planning to organize one day Workshop titled INTRODUCTION TO CNC TURNING & MILLING on 26/07/2023 for First year Mechanical Engineering & Agriculture Engineering students

The details are mentioned below, kindly request you do the needful.

Workshop details

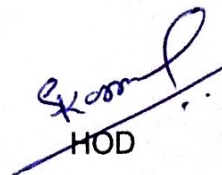
Name: **Mr. Hemanth Suvarna & Mr. Pramod Kumar N**

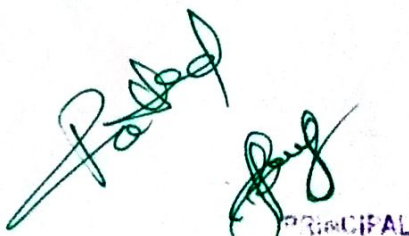
Title : **INTRODUCTION TO CNC TURNING & MILLING**

Venue: **CNC CENTRE (MECH BLOCK)**

Date/month/year: **26/07/2023**

Mode : **Offline**


HOD 24/7/23



PRINCIPAL
Alva's Institute of Engg. & Technology,
MIJAR, MOODBIDRI - 574 225, D.K

aiet/Mech/AY2022-23/023

Date-24/07/23

Circular

All the First year students from Department of Mechanical Engineering, & Department of Agriculture Department are hereby informed to attend the one day workshop on CNC machines titled "INTRODUCTION TO CNC TURNING & MILLING"


Details are as following

Date: 26/07/2023

Time: 09:00 am-05:00 pm

Title of the Talk: "INTRODUCTION TO CNC TURNING & MILLING"

Venue : CNC WORK CENTRE ,


HOD

Copy to

Principal table/Deans/HODs/AO/Office/---


Principal
PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar. MOODSIDRI - 574 225, D.K

One Day Workshop On Introduction To CNC Turning And Milling

Workshop

Introduction:

The Mechanical Department of Alva's Institute of Engineering and Technology organized a comprehensive one-day workshop titled "Introduction to CNC Turning and Milling" on July 26, 2023. The workshop aimed to provide students with a solid foundation in CNC machining principles and practices, enabling them to become industry-ready and proficient in modern manufacturing techniques. The event commenced at 8:30 AM with an inaugural ceremony, graced by the presence of esteemed faculty members, and students. The Head of the Mechanical Department delivered a warm welcome address, highlighting the significance of CNC technology in today's manufacturing landscape and its potential to revolutionize the industry.



Machining and Conventional Manufacturing

Session 1: Machining and Conventional Manufacturing

The first technical session began at 9:00 AM, where an experienced industry expert shed light on the history and evolution of machining processes. The participants were introduced to traditional manufacturing methods, such as turning, milling, drilling, and grinding. The expert emphasized the limitations of conventional techniques and how CNC machining addresses these challenges with enhanced precision, efficiency, and flexibility.

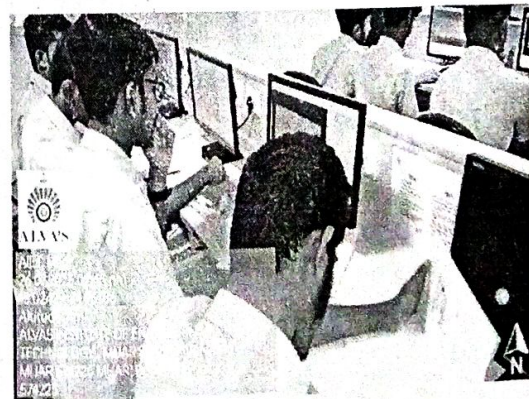
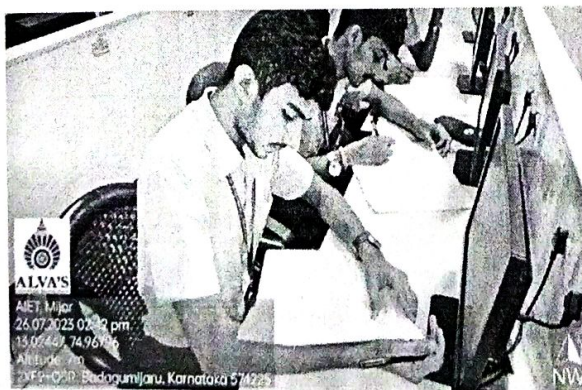
Session 2: Understanding CNC Machines

Following the insightful introduction to machining, the renowned in-house Trainer, Prof. Hemanth Suvarna, took center stage to delve into the world of CNC machines. Prof. Suvarna, with his extensive expertise, elucidated the essential components of CNC machines, including the control unit, motors, tool turret, and workholding devices. He demonstrated the functioning of CNC machines with engaging visuals and real-life examples, captivating the audience's attention and curiosity.



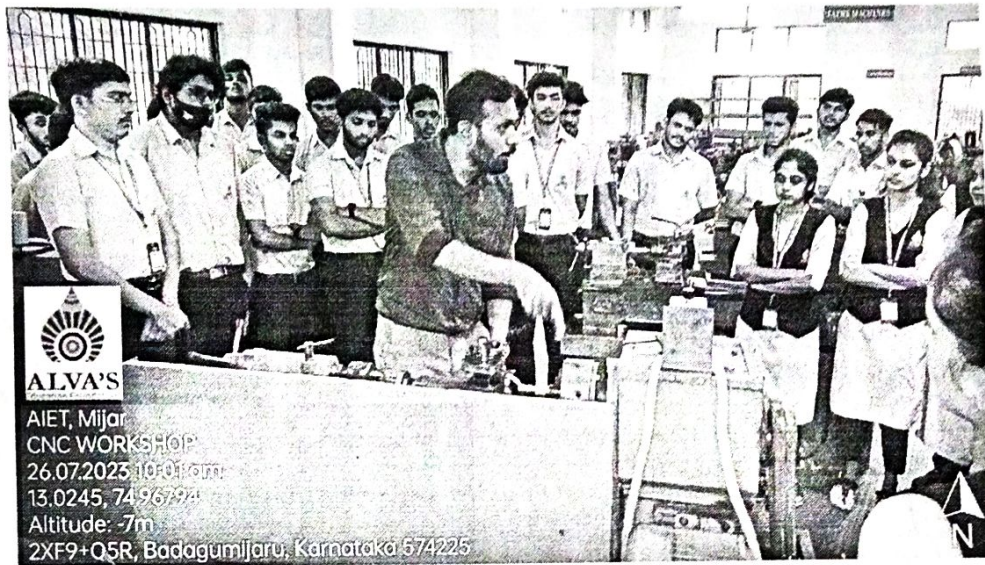
Interactive Q&A Session:

After each technical session, interactive question and answer sessions were held, allowing participants to seek clarifications and engage in meaningful discussions. This segment fostered an atmosphere of active learning and encouraged students to clarify doubts and deepen their understanding of CNC machining concepts.



Session 3: Part Programming

Post a brief refreshment break, the afternoon session commenced with Prof. Pramod Kumar N leading an in-depth discussion on part programming for CNC machines. Prof. Kumar, a seasoned programmer and industry practitioner, imparted the fundamentals of G-code programming, explaining the syntax, commands, and logical sequence required to control CNC machines effectively. He also demonstrated the use of computer-aided manufacturing (CAM) software and simulation tools for accurate part visualization and error detection.




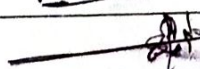

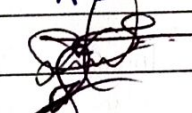

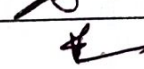
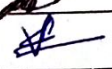


Session 4: CNC Hands-on Training

The highlight of the workshop was the hands-on training session, where the students had the unique opportunity to work with CNC machines themselves. Under the watchful guidance of Prof. Pramod Kumar N, the participants learned how to set up workpieces, align tools, and execute pre-programmed tasks. They experienced firsthand the intricacies of material removal, tool changes, and machine adjustments, gaining invaluable practical insights.



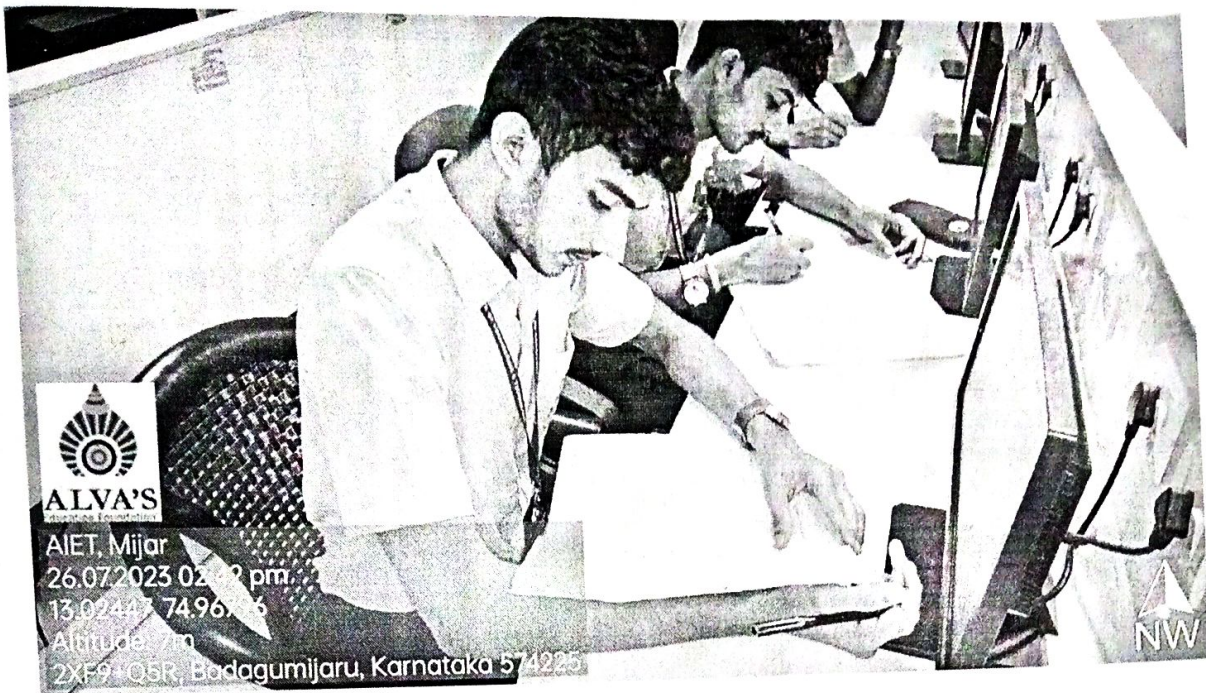
One Day Workshop -Introduction To CNC Turning And Milling Workshop

| Sl.No. | BRANCH | NAME | 9AM -1PM | 2PM -4PM |
|--------|------------|----------------------------|--------------------------|--------------------------|
| 1 | 4AL22AG001 | AKSHATA GANGADHAR SUNKAD | <i>Akshata</i> | <i>Akshata</i> |
| 2 | 4AL22AG002 | DEEPAK J | <i>Deepak</i> | <i>Deepak</i> |
| 3 | 4AL22AG003 | DEEPIKA Y | <i>Deepika</i> | <i>Deepika</i> |
| 4 | 4AL22AG004 | ESHA S | <i>Esha</i> | <i>Esha</i> |
| 5 | 4AL22AG005 | GURUPRASAD N | <i>Guruprasad</i> | <i>Guruprasad</i> |
| 6 | 4AL22AG006 | KASTURI C | <i>Kasturi C.</i> | <i>Kasturi C.</i> |
| 7 | 4AL22AG007 | M B KRUPA | <i>MB Krupa</i> | <i>MB Krupa</i> |
| 8 | 4AL22AG008 | N HARIYANTH KUMAR | <i>N Hariyanth Kumar</i> | <i>N Hariyanth Kumar</i> |
| 9 | 4AL22AG009 | NAVEEN NAYAK | <i>Naveen Nayak</i> | <i>Naveen Nayak</i> |
| 10 | 4AL22AG010 | NIHAR S ACHARYA | <i>Nihar</i> | <i>Nihar</i> |
| 11 | 4AL22AG011 | NIKITHA | <i>Nikitha</i> | <i>Nikitha</i> |
| 12 | 4AL22AG012 | NITHIN M SHETTY | <i>Nithin</i> | <i>Nithin</i> |
| 13 | 4AL22AG013 | PRAJNA SHREE JAIN | <i>Prajna</i> | <i>Prajna</i> |
| 14 | 4AL22AG014 | PRANJAL P POOJARY | <i>Pranjali</i> | <i>Pranjali</i> |
| 15 | 4AL22AG015 | PRAPTHI N S | <i>Prapthi</i> | NCC |
| 16 | 4AL22AG016 | PUNEETH | <i>Puneeth</i> | <i>Puneeth</i> |
| 17 | 4AL22AG017 | RAJITH S SHETTY | <i>Rajith</i> | <i>Rajith</i> |
| 18 | 4AL22AG018 | REHAN MALLIK SHARIFFSAB | ← LEFT → | |
| 19 | 4AL22AG019 | SAMANSH Y SUVARNA | <i>Samansh</i> | <i>Samansh</i> |
| 20 | 4AL22AG020 | SUMA MG | <i>Suma</i> | <i>Suma</i> |
| 21 | 4AL22AG021 | THEJAS A V | <i>Thejas</i> | <i>Thejas</i> |
| 22 | 4AL22AG022 | THRUPTHI S RAI | <i>Thrupthi</i> | <i>Thrupthi</i> |
| 23 | 4AL22AG023 | VEERESH METI | <i>Veeresh</i> | <i>Veeresh</i> |
| 24 | 4AL22AG024 | VISHWANATH D CHAVADANNAVAR | <i>Vishwanath</i> | <i>Vishwanath</i> |
| 25 | 4AL22CV001 | DHANUSH R | <i>Dhanush</i> | CIVIL |
| 26 | 4AL22CV002 | FAYAZ | <i>Fayaz</i> | # |
| 27 | 4AL22CV003 | HARSHITH KUMAR L | <i>Harshith</i> | # |
| 28 | 4AL22CV004 | PAVAN GOWDA M D | <i>Pavan</i> | # |
| 29 | 4AL22CV005 | PRUTHVI | <i>Pruthvi</i> | # |

| Sl.No. | BRANCH | NAME | | |
|--------|------------|--------------------|--|---|
| 30 | 4AL22CV006 | PUNEETHA B P | Puneetha.B.P | CIVIL |
| 31 | 4AL22CV007 | SHREYANK S |  | " |
| 32 | 4AL22ME001 | ADHITYA MU | Adhitya MU | Adhitya MU |
| 33 | 4AL22ME002 | ANANTHESH D KAMATH | Ananthesh .. | Ananthesh .. |
| 34 | 4AL22ME003 | ANWESH R SHETTY | Anwesh R | Anwesh R |
| 35 | 4AL22ME004 | ELVIN CHRIS DSOUZA | Elvin Chris | Elvin Chris |
| 36 | 4AL22ME005 | KEERTHAN GOWDA K | Keerthana, K | Keerthana K |
| 37 | 4AL22ME006 | KRUPAKARA H | Krupa H | Krupa H |
| 38 | 4AL22ME007 | MOHAMMAD SHAREEK |  |  |
| 39 | 4AL22ME008 | PRADEEP | P.R. | P.R. |
| 40 | 4AL22ME009 | SAMARTH | AB | AB |
| 41 | 4AL22ME010 | SHREEGOVINDA R |  |  |
| 42 | 4AL22ME011 | SHYAM |  |  |
| 43 | 4AL22ME012 | VEERESH |  |  |
| 44 | 4AL22ME013 | VINAY KUMAR S | Vinay Kumar | NCC |
| 45 | 4AL22ME014 | VISHWAS KONDA | Vishwas K | Vishwas K |

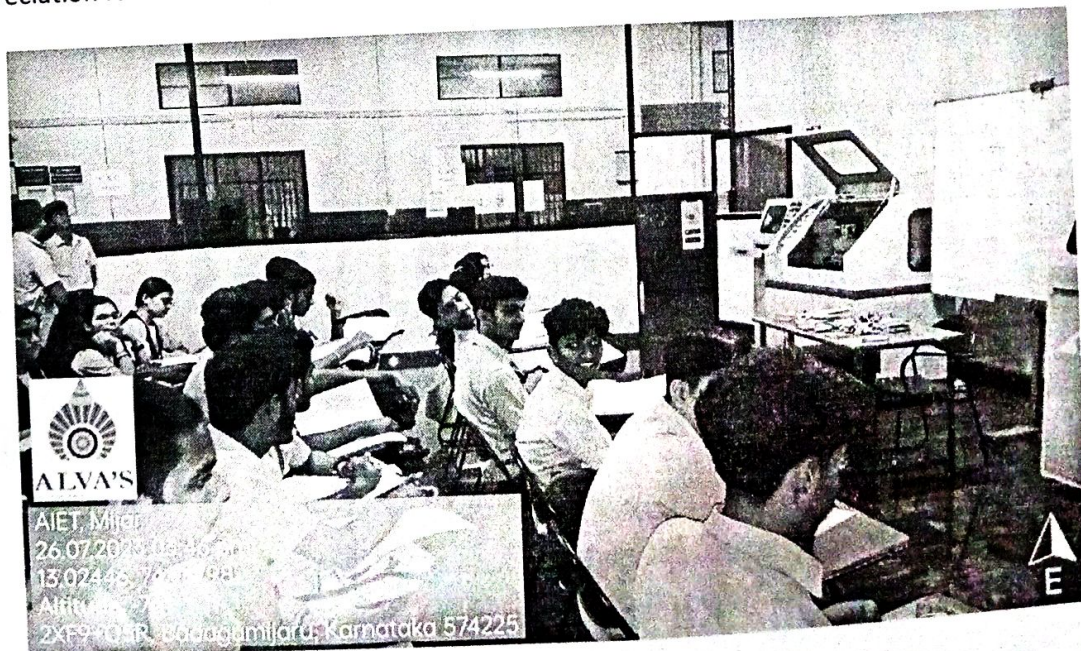

WORKSHOP COORDINATOR

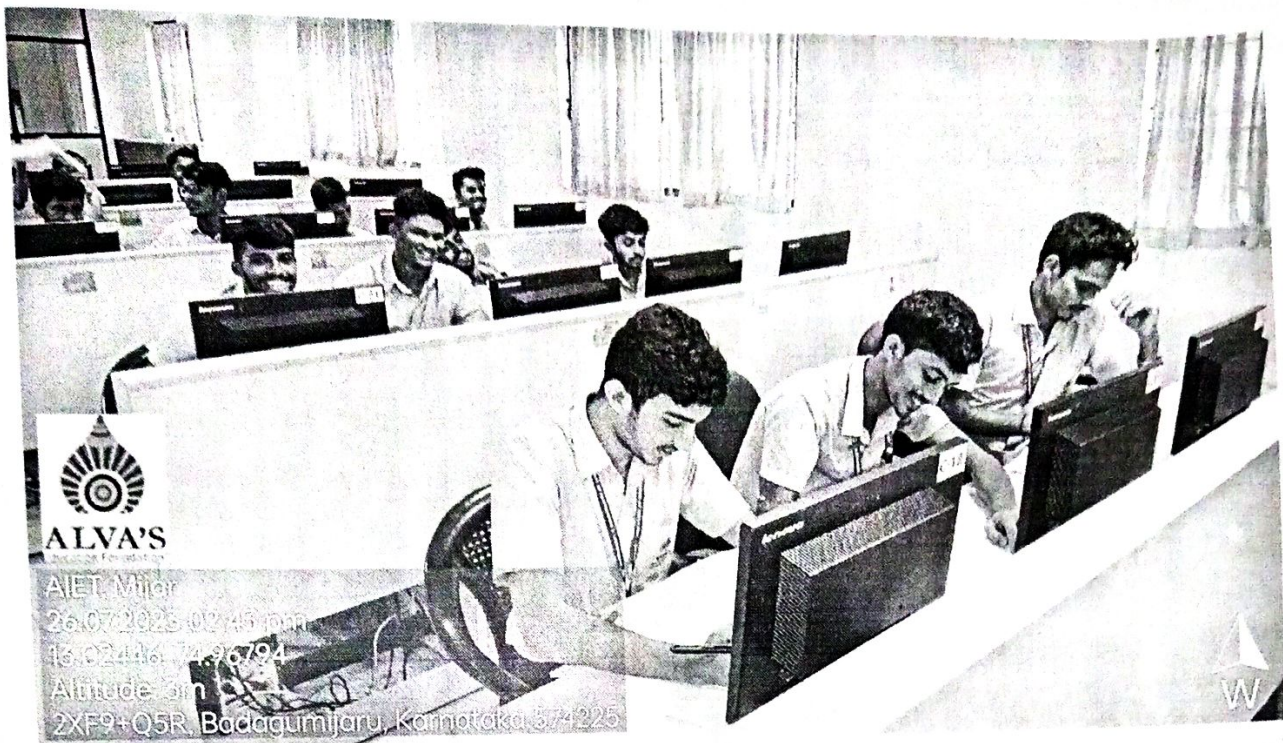

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.



Industry Perspectives and Guest Speaker Talk:

To provide a broader outlook, a distinguished guest speaker from the manufacturing industry was invited to share insights into the current trends and challenges faced by CNC machining in the real-world scenario. The speaker emphasized the importance of skilled technicians in driving manufacturing efficiency and competitiveness. The workshop concluded with a valedictory ceremony, where certificates of participation were distributed to all attendees. The Head of the Mechanical Department expressed gratitude to the trainers, speakers, and participants for their active involvement and dedication. The participants shared their feedback, expressing their appreciation for the informative and engaging workshop that enriched their knowledge and skillset.

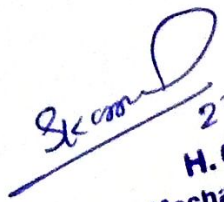


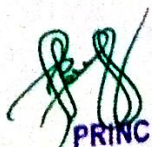


Conclusion:

The "Introduction to CNC Turning and Milling" workshop at Alva's Institute of Engineering and Technology was a resounding success, achieving its objectives of providing students with theoretical knowledge, practical experience, and industry insights in CNC machining. The event not only contributed to the personal and professional growth of the participants but also strengthened the institute's reputation for academic excellence and industry-oriented learning. The workshop's impact is expected to resonate positively with the students' future careers in the dynamic world of manufacturing and technology.


23/7/23
Workshop Coordinators


23/7/23
H.O.D.
Dept. Of Mechanical Engineering
Alva's Institute of Engg. & Technology
Mijar, MOOBBIDRI - 574 225


PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOOBBIDRI - 574 225, D.K