

TWO DAYS WORKSHOP ON CNC PROGRAMMING ON 5 – AXIS MACHINING CENTRE

ABOUT THE COLLEGE

The Birla Institute of Technology & Science, BITS Pilani is an all-India Institute for higher education. The primary motive of BITS is to "train young men and women able and eager to create and put into action such ideas, methods, techniques and information".

Over the years, BITS has provided the highest quality technical education to students from all over India admitted on the basis of merit. Its graduates may be found throughout the world in all areas of engineering, science and commerce.

ABOUT THE DEPARTMENT

Mechanical Engineering is considered to be one of the most diverse and versatile of the engineering disciplines. Mechanical Engineering contributes to modern standard of living and almost all products of modern life have contributions from mechanical engineers. The faculty members in the department are actively involved in academic and sponsored research to solve various fundamental as well as applied problems. We are offering programs at different levels namely B.E. (Mechanical Engineering), M.E. (Mechanical / Design Engineering) and Ph.D.

OBJECTIVES OF THE WORKSHOP

- ❑ To introduce basic concepts of CNC Programming and Mastercam.
- ❑ Hands on experience on CNC Turning and CNC Milling Facility.
- ❑ Demonstration and hands on experience on 5 Axis CNC Machining centre.

CONVENER

Dr. G. Karthikeyan, HoD

ORGANISING TEAM

Dr. Biswajit Das

Mr. Rajiv Shinde

Mr. Vijay Suryavanshi

CONTACTS



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RESOURCE PERSONS

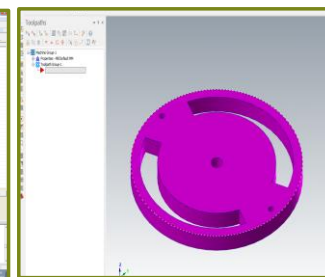
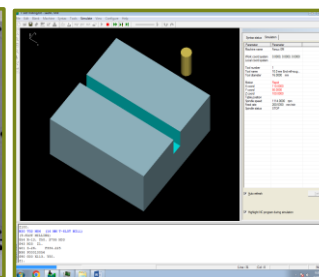
Dr. Biswajit Das / Dr. Karthikeyan

Mr. Anup Gorla

Mr. Vrashabhanath Ghongadi

Mr. Parashuram Naik

Mr. Hemeswar Gunangipalli



DATE: 4th & 5th January 2023

ORGANISED BY
DEPARTMENT OF MECHANICAL ENGINEERING
BITS PILANI K. K. BIRLA GOA CAMPUS

PROGRAM SCHEDULE

DAY 1:

Morning (10 AM to 1 PM)

- ❑ Review on computer numerical control systems
- ❑ Introduction to CNC part programming including canned cycles
- ❑ Solving example problems on 3axis milling and thread cutting

Afternoon (2:30 PM to 5:30 PM)

- ❑ Introduction to CNC simulators
- ❑ Live demonstration on tool path verification
- ❑ Hand on demonstration on CNC lathe and milling machine

DAY 2:

Morning (10 AM to 1 PM)

- ❑ 3D modelling
- ❑ Basics of Mastercam software: Preprocessing and postprocessing
- ❑ Solving examples on Mastercam to generate codes

Afternoon (2:30 PM to 5:30 PM)

- ❑ Hands on practice on Mastercam
- ❑ Demonstration on 5 axis CNC machining center
- ❑ Hand on practice on CNC center

REGISTRATION DETAILS:

- ❑ Registration fee (inclusive of GST):
 - ❑ Students and Research Scholars : Rs. 1,500/-
 - ❑ Faculty members and Teaching Staffs : Rs. 2,000/-
 - ❑ Industry professionals : Rs. 2,500/-
- ❑ Registration and Payment can be made using the following link

<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

- ❑ Registration has to be completed on or before **02/01/2023**.
- ❑ Registration fee includes participation certificate, workshop kit, refreshments and working lunch.
- ❑ Total number of participants is limited to 30.
- ❑ Accommodation, TA and DA will not be provided.



HOW TO REACH US

BITS Pilani K K Birla Goa Campus
NH 17B, Bypass, Road, Zuarinagar,
Sancoale, Goa 403726.



PAYMENTS: Through SBI Collect (use following link)

<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

Step 1: Click on the link given above,

Step 2: Agree to the terms and conditions and proceed.

Step 3: Select the state as '**Goa**' and type of institute as '**Educational Institutions**' and proceed.

Step 4: Select the institution name as '**Birla Institute of Technology and Sciences**' and submit.

Step 5: Select payment category as '**Workshop on CNC programming**' either students, Faculty/staffs or Industry and submit payment.