

**THREE-DAY WORKSHOP
On
CNC Programming, Simulation and
Operations on
Vertical Machining Centre and
Turning Centre**



26 - 28 July 2017

Conducted by

**DEPARTMENTS OF
MECHANICAL ENGINEERING
And
INDUSTRIAL ENGINEERING AND
MANAGEMENT
R V COLLEGE OF ENGINEERING
BENGALURU - 560059**

R. V. College of Engineering, Bengaluru:

R.V. College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST). RVCE is an Autonomous college. Currently, the institution offers 12 Bachelor, 21 Master Programs and all the departments have research centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The Institution has set its Vision “Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, with focus on Sustainable and Inclusive Technologies”. Recent awards and achievements include “Engineering College of the Year-2015” by Higher Education Review Magazine, Certified as 'Global League Institute' by Great Place to Study Research Institute (GPSRI), Ranked 49th in the Country by National Institutional Ranking Framework (NIRF), Ranked 7th among the top 113 Pvt. Engg. Colleges by Week Magazine, Ranked 9th among the top 10 of 100 Pvt. Engg. Colleges in the Nation by Education World Magazine. The Institution has been accredited by NAAC. All the UG programs and eligible PG programs have been accredited by NBA. The College currently has student strength of about 5600, faculty strength of over 400, Technical & Administrative Staff of 256 and about 250 Research Scholars are pursuing Ph.D.

About the workshop:

- The Workshop provides the participants with CNC Part programming skills, on state-of-the-art CNC Vertical Machining Centre and Turning Centre.
- The participants will get experience in machining operations using Canned Cycles in ACE Turning centre and BFW Vertical Machining Centre.
- The program is conducted by Eminent Industrial Experts in the area of Automation with well-designed hands on sessions.
- The five day workshop is interspersed with theory sessions and Simulation. .
- Theory sessions are supplemented with practical exercises tried on CNC machines.

Objectives of the Workshop

- Understand CNC programming concepts for Turning and Milling applications for industry oriented components.
- Develop technical skills on Predominately used FANUC Controllers
- Develop expertise on Simulation with CNC train of MTab

Who Can Register?

- Students of ITI, Diploma, Graduate, Post graduate, Faculty, industry personals and research scholars

Registration Fee

- Rs 2,000 for RVCE students & Non teaching staff
- Rs 3,000 for others

Certificate

- Course certificate will be awarded to the successful participants

ADVISORY COMMITTEE

Dr. K N Subramanya, Principal, RVCE
Dr. H N Narasimha Murthy, HOD, ME
Dr. N S Narahari, HOD, IEM
Dr. N Shanmukha, Prof. ME
Mr. R Shekhar, Foreman, IEM

Lead Faculty:

Prof Raghavan K Asst Professor,
B.E. in Mechanical Engineering from RVCE,
M.Tech in Production Engineering from IIT
Madras, rich industrial experience of 30 years
in Kirloskar Electric Co. and Emerson
Industrial Automation and Academic
experience of 6 years in Engineering
Institutions.

Prof. Dr. S K Harisha, Associate Professor,

Prof. Keshav M, Asst Professor,

Prof. Gangadhar Angadi, Asst Professor,

Prof. Sunil R Y, Asst Professor

Technical Staff:

Mr. Rajesh V, Programmer, ME .

Mr. Narasimharaju, Mechanic, IEM Dept.

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Prof. Sunil R Y,

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Course content:

Module 1 (3 hours)

CAM Fundamentals: CNC systems,
Dimensioning, Axes coordinates System,
Toolings, ISO Coding systems, Tool
Presetting, Concepts of Cutter Radius
Compensation, ATC, Selection of cutting
parameters, G and M Codes

Module 2 (6 hours)

CNC Milling: Simulation Exercises of
CNC Milling: Plain & Circular contouring,
Use of Subprograms, Canned cycles for
drilling, Peck drilling, Tapping, circular
and rectangular pocketing

Hands-on (03 hours)

BFW Vertical Machining centre

Module 3 (05 hours)

CNC Turning: Simulation Exercises of
CNC Turning: Manual Facing and Turning,
Multiple Turning cycle and Threading
cycle

Hands-on (03 hours)

ACE Turning Centre



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Registration Form

Name : _____

Designation : _____

Address for Communication :

Phone No. : _____

E-mail ID : _____

