



RAJARAJESWARI COLLEGE OF ENGINEERING

(Under the auspices of the Moogambigai Charitable and Educational Trust)

(Affiliated to the Visvesvaraya Technological University, Belgaum)

(Recognized by the AICTE, New Delhi)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru-560074.

Phone: +91-80-28437124, +91-28437375, Fax: +91-80-2843 7373, www.rrce.org



DEPARTMENT OF MECHANICAL ENGINEERING

Date: 10/05/2019

Circular

It is hereby informed to all the staff members that the department is organizing 03 days SDP on the topic **“CIM &Automation”** from **20th to 22nd May 2019**. All are requested to attend the SDP and make better utilization of the recourse person and opportunity.

Coordinators

HoD - ME



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DEPARTMENT OF MECHANICAL ENGINEERING

3Days Staff Development Program on

“CIM & Automation”

20th to 22nd May 2019

Sl. No.	Topic	Resource Person	Date & Time
Inauguration and Welcome 9:00 to 10:15 AM			
1	Introduction	Prof. Anand A Dept.of Mechanical.,RRCE.	20 th May2019 10:30 to 12:30
2	Manual CNC part programming& Hands on session		20 th may 2019 2:00 to 3:30
3	CNC part programming using CAM packages.& Hands on session		21 st may 2019 9:30 to 12:30
4	FMS (Flexible Manufacturing System)& Hands on session		21 st may 2019 2:00 to 3:30
5	Pneumatics and Hydraulics, Electro-Pneumatics& Hands on session		22 nd may 2019 9:30 to 12:30
Valedictory and feedback session 3:00 to 3:30			



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Program Report

On day 1 Prof.Anand highlighted new technologies to impart knowledge of CIM and Automation and different concepts of automation by developing mathematical models. To make students to understand the Computer Applications in Design and Manufacturing CAM leading to Computer integrated systems. Enable them to perform various transformations of entities on display devices

On day 2 To learn CNC part programming using CAM packages. Simulation of Turning, Drilling, Milling operations. 3 typical simulations to be carried out using simulation packages like: CademCAMLab-Pro, MasterCAM. Program generation using software. Optimize spindle power, torque utilization, and cycle time. Generation and printing of shop documents like process and cycle time sheets, tool list, and tool layouts. Cut the part in single block and auto mode and measure the virtual part on screen. Post processing of CNC programs for standard CNC control systems like FANUC, SINUMERIC and MISTUBISHI.

On day 3 Robot programming: Using Teach Pendent & Offline programming to perform pick and place, stacking of objects. Pneumatics and Hydraulics, Electro-Pneumatics, typical experiments on Basics of these topics to be conducted.

Coordinator

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