



**NATIONAL INSTITUTE OF ELECTRONICS AND INFORMATION TECHNOLOGY
(NIELIT), CALICUT**

(Formerly DOEACC CENTRE CALICUT)

CDS/CA/7.5.1/F 40/R1

Name of the Group : CAD/CAM
Name of the Course : FMS and CIM
Course Code : MT103
Starting Date : 26/03//2012
Duration : 1 Week

Preamble:

Automation - application of intelligence to overcome physical work - can be achieved by sending the logical decisions to the appropriate machine controls of the machine tool via computer i.e., reducing (or eliminating) the human factor. Computer Integrated Manufacturing (CIM) is a term to describe complete automation of the plant under computer control. It uses the database and communication technologies to integrate the design, manufacturing, and business functions that combine the automated segment of the factory. CIM reduces human component of manufacturing and thereby relieves the process of its most expensive and error-prone ingredient. CIM stands for the global methodological approach in the enterprise in order to improve the industrial performances

Objective of the Course:

This module gives to the participants the basic understanding of CIM and how it differs from other automated systems. It also provides hands-on experience on Expert systems, Machine vision, and Modelling and Simulation of CIM

Outcome of the Course:

The participants will be able to:

- Understand concepts and principles of FMS and CIM
- Understand Material handling system, MRP,
- Learn Industrial Robots and Robot Programming
- Design cell level in FMS and CIM
- Hand-on exposure to real life CIM environment
- Understand advanced features of CAD/CAM

Course Structure:

<i>Code</i>	<i>Module</i>	<i>Duration</i>	<i>Starting Date</i>
<i>MT103</i>	<i>FMS & CIM</i>	<i>1 Week</i>	<i>26/03/2012</i>

Other Contents

- a. Course Fees : ₹6,500 plus service tax. SC/ST Candidates are exempted from tuition fee/examination fee
- b. Eligibility: B.E, B.Tech., Diploma in Mechanical, production Tool & Die, Automobile and Industrial engineering
- c. **Number of Seats : 20**



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d. **How to Apply :**

Students are advised to apply in the prescribed Application Form available with the course brochure/course prospectus or downloaded from our website. Filled in application forms along with a Demand Draft towards advance fee of ₹ 1,000/- drawn in favour of Director, NIELIT, Calicut, Payable at State Bank of India, NIT Campus Branch (code: 2207), Chathamangalam should be sent to the **Training Officer, NIELIT (formerly DOEACC Centre), P. B. No. 5, NIT Campus Post, CALICUT – 673 601, Kerala. The Name of the Course Applied for should be super scribed on the top of the cover in which the application form is forwarded.**

Mode of Payment:

1	Demand Draft to be drawn in favor of Director, NIELIT, Payable at State Bank of India, Calicut NIT Branch(2207). The DD should reach here before the last date to apply.
2	Through any branch of SBI (where this format is accepted) using the pay in slip available in our web site. The original counterfoil should reach here before the last date to apply.
3	<p>The fees can be paid directly into our account from any bank where core banking facility is available. The details required for direct payment are as given below.</p> <ul style="list-style-type: none">• Savings Account No: 31732177476• Bank Name: SBI, NIT Chathamangalam• Bank Code: 2207• IFSC No: SBIN0002207• MICR : 673002012 <p>The depositor should obtain the UTR Number/Journal No from the branch while depositing cash directly into our account. Depositor should also obtain the counterfoil duly filled up and signed by the staff with seal of the bank through which the amount was deposited. The following details should reach here before the last date to apply. Name of the Depositor</p> <ol style="list-style-type: none">1. Name of the Student2. Date of Payment3. Amount Deposited4. Name of Bank/branch through which amount deposited5. Purpose – Course ID – Advance Deposit/Hostel Rent/Installment Fee etc.6. Proof of Deposit (counterfoil/acknowledgement in original)7. UTR Number

The Centre will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account.

e. **Selection of candidates:** The candidates passed in the qualifying examination will be based on their marks obtained, subject to eligibility and availability of seats.



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f. Test/Interview (if applicable) : *Not Applicable*

g. **Counseling/Admission : 26/03/2012**

h. **Admission Procedure :**

Students who have been selected for test/interview/counseling/admission are required to report to the Centre on the prescribed day by 9:30 hrs along with the following

1. Attested Copies of Proof of Age, Qualifications, etc
2. Original Certificate of the above
3. Two copies of photograph and one stamp size photograph for identity card.
4. SC/ST Certificate (if applicable)
5. Income Certificate (if applicable)

The students on reaching the Centre are required to meet the Front Office Councilor (FOC). The FOC then directs the student to the Course Coordinator. The student gets the enrollment form verified by the Course Coordinator and then meets the FOC who shall direct the student to the Accounts for payment of fees. A student is thus admitted.

i. Discontinuing the course: No fees under any circumstances shall be refunded in the event of a student discontinuing the course. A student can however, be eligible for module certificates (applicable only for courses which provide for modular admission) which he/she has successfully completed provided he/she has paid the entire course fees.

j. **Course Timings : 9:30 to 17:00 PM**

k. **Location and How to reach :**

NIELIT (formerly DOEACC Centre), Calicut is about 22Kms from the Calicut (Kozhikode) city and close to NIT (REC) campus. A number of buses [Buses to NIT via Kunnamangalam] are available from "Palayam Bus Stand or KSRTC Bus Stand". Our stop is called "Panthrand" & is one stop before NIT. The bus fare is around ₹.13/- from Calicut City to NIELIT.

Calicut city is well connected by Rail, Road and Air from different parts of the country. The climatic conditions in Calicut are perhaps one of the best in India throughout the year. The maximum and minimum temperatures range between 35 and 20°C. The cool breeze further adds the comfort.

l. **Course enquiries :**

Students can enquire about the various courses either on telephone or by personal contact between office hours.

m. **Important Dates:** Starting date: 26th March 2012 (dates are given in the above table for independent modules)

Last date to submit application form:	22/03/2011
Selection intimation in website:	23/03/2011
Counseling/Admission:	26/03/2012
Commencement of classwork:	26/03/2012
Payment of Fee:	26/03/2012

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n. **Placement :** Support shall be provided



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o. **Hostel facilities :**

Hostel accommodation is available for boys and girls on daily or monthly chargeable basis. *The hostel fee varies from ₹ 450/- to ₹ 1,050/- (for boys) per month and ₹ 650/- to ₹ 750/- (for Girls) per month depending on the location of accomodation.* However, students are required to pay the hostel fees for the duration of the course for which they are seeking admission at the time of joining the course.

p. **Canteen facilities :**

The Centre has a canteen functioning at the main campus and food at reasonable rates is available for breakfast, lunch, and dinner

q. **Lab Facilities:**

Fully Air-conditioned lab consists of CNC Machines Tools (Lathe and Milling), Industrial Robots, Image Inspection System, CIM software, PCs with higher RAM and Graphics cards

r. **Faculty**

The centre has a team of enthusiastic and competent engineers with postgraduate qualifications who have undergone specialized training in various International Universities and Industries.

s. **Course Contents :**

FMS & CIM: Fundamentals of CIM, Group Technology and Computer Aided Process Planning, Automated Storage and Retrieval Systems (ASRS) , Computer Aided Inspection, Introduction to Machine Vision, Industrial Robotics, Robot Task Programming, Modelling and Simulation, Design of a Manufacturing cell using the CIM software, Management Information system and MRP

This approval is valid for uploading on Centre's website

The following texts do not form part of the prospectus:

Signature of the Course Coordinator:

Signature of Training Officer:

Approved/Not Approved
Director

Guidelines:

1. All Text in Italics are to entered by the course coordinator
2. The Course Prospectus to be put to Director for approval through Training Officer before issue.