National Institute of Electronics and Information Technology, Aurangabad

Name of the Course   : Advance Digital Electronics
Course Code   : PE 103
Duration   : 1 Month

Preamble:
The world has shifted from Analog to Digital signals and hence study of Digital Electronics has becomes a hot trend. The theory and circuits involved in this is extremely easy than in Analog circuits. Even now the research and development are going on in this field and there is various opportunities in market in terms of jobs. The Advanced Digital Electronics study will not only help the candidates to learn the digital circuits and their operation, but also help them to find a better job opportunity in the market.

Objective of the Course:
The course aims at imparting up to date knowledge to the candidates and to improve their understanding of "Digital electronics", so that they can become competent in that field, in research or in Industries.

Outcome of the Course:
On completion of the Course, There will be increase in confidence level of candidate and the Competence of the candidate will improve in the field of Digital electronics which will help the candidate for career development in research or in industry.

Course Structure:
The course consists of following modules as given in the table below.
(Course Duration: 1 Month (4 weeks))

Code	Module	Duration
PE103	Digital, Number System	2 Days
	Conversions, Minimization	3 Days
	Gates and ICs	3 Days
	Flip Flops and MUX	4 Days
	Registers and Decoder	4 Days
	Counters and Timers	4 Days

Other Contents

a. **Course Fees**: Rs 6,000/-

b. **Eligibility**:
    - Diploma/B.E./B.Tech(Electrical/Electronics)
    - Candidates who have appeared in the qualifying examination and awaiting results may also apply
    - On the date of counseling/admission, the candidate must produce the original mark lists up to the last semester/year of examination.

c. **Number of Seats** : 15

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

e. **Admission Procedure** :
    Students who have been selected for test/interview/counseling/admission are required to report to the Institute 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 Institute 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.

f. **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 has successfully completed provided he has paid the entire course fees.

g. **Course Timings** : 9:30 AM to 5:00 PM

h. **Course enquiries :**
    Students can enquire about the various courses either on telephone or by personal contact between 9:30 A.M. to 5.00 P.M. (Lunch time 1.00 pm to 1.30 pm).

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

j. **Hostel facilities:**
   Limited Hostel accommodation is available for boys and girls on daily or monthly chargeable basis.

k. **Canteen facilities :**
   The Centre has a canteen functioning at the main campus and food at reasonable rates is available for breakfast, lunch, and dinner

l. **Lab Facilities**:
   We have state-of-the-art lab facility in Digital electronics lab (project lab) which include,
   - Universal Gate ICs
   - Other Gate ICs
   - Flip Flop kits
   - Full Adder & Full Subtractor kits
   - Half Adder & Half Subtractor kits
   - De Morgan's theorem kits
   - MUX ICs
   - Decoder ICs
   - Comparator ICs
   - DC Power Supply

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