

**PROSPECTUS**  
**2011-2012**



**Mewat Gurukul**  
**International Institute of Advance Technology**  
**Polytechnic for Women**  
(Under the Management of Indian Council of Education)  
150/166 Village Hirmathla, Delhi Alwar-Road, Tehsil-Nuh Distt. Mewat, Haryana  
Phones : 011-26102520, 011- 26105846 Fax : 011-26196294  
Email : ice@ice-online.org , Website : www.ice-online.org



**MEWAT GURUKUL**  
**INTERNATIONAL INSTITUTE OF ADVANCE TECHNOLOGY**  
Delhi-Alwar Road, Tehsil-Nuh, Distt. Mewat, Haryana  
(Under the management of Indian Council of Education)  
**FACULTY-RECRUITMENT**

***NATIONAL VISION***

The Central Government of India, while striving at the Millennium Development Goals (MDGs) envisages improvement and expression of education at all sectors, elimination of disparities in access and laying greater access on improvement in the quality and relevance of education at all levels, including the technical and professional education. It also emphasizes that education must play a positive and interventionist role in correcting social and regional imbalances, empowering women and in securing a rightful place for the disadvantaged, linguistic groups and minorities.

The state is committed to provide for full equality of opportunity, particularly in education and employment for scheduled castes, scheduled tribes, OBCs and religious minorities. Women can and should play an active and contributory role in the development sector. What really required is the opportunities to be provided to them. The government sector has already initiated the Prime Minister's New 15 Point Programme for the Welfare of Minorities to enhance educational opportunities resulting into equitable share in economic activities and employment. Whereas the private sector has yet to come forward in supplementing the efforts on the part of government for maximizing the results.

***OUR COMMITMENT***

The Indian Council of Education (ICE) is a voluntary organization registered under the Registration of Societies Act 1860 and right from its inception in 1985, it has been actively working for the social development through educational approaches for its activities and programmes.

Having had realized the social and educational needs of economically weaker sections and particularly of women belonging to minorities, the Indian Council of Education has established an exclusively separate Institute named 'INTERNATIONAL INSTITUTE OF ADVANCE TECHNOLOGY' at Delhi-Alwar Road (Village Hirmathla, Nuh) Distt. Mewat, Haryana. (The Road Map is given below).

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2. Electronics	
3. Travel & Tourism	
4. Food Technology	
5. Computer Engineering	

Rs. 200/-  
**PROSPECTUS**

## PREFACE

Women play a very vital role in determining the Socio-economic status of a family. Most of them are earning members, either as salaried, self employed in various vocations or doing their part of the house hold chores and duties. The income earned by women has a significant co-relation with the nutritional status of the families, improvement of the educational level of the children and building up of a positive attitude towards the status of women, their development and well being. Women are actual and potential partners in the entire development process of economics. And our role is:

- to enable and equip them to shoulder their responsibilities & take care of their socio-economics needs;
- imparting vocational and technical education to prepare them for their onerous duties, awaiting them.

The Indian Council of Education, New Delhi dedicated its institutions named “*Mewat Gurukul International Institute of Advance Technology, (Polytechnic for Women)*” to the advancement of knowledge and imparting capability to women to play their allotted role with dignity and confidence.

## INTRODUCTION

### About Us

The **Indian Council of Education** was founded by like minded educationists, philanthropists and public spirited persons, dedicated to the task of bringing about socio-economic transformations in keeping with the National Priorities. It was registered as a Non-profit NGO under the Societies Registration Act of 1860.

The objective of the society has been to provide skilled manpower to support the vast development programmes, being implemented in the country. In turn it enjoined the Society to establish, promote and propagate vocational and technical education programmes to provide the right kind of professional and skilled personnel needed.

## THE BASIC APPROACH

The basic approach of the institutions for imparting training in the professional courses is that of inculcating skill and competency in the students to be of service and help to the community and provide a finish to be a good and useful citizen of the country. It accommodates 10th pass and higher qualified students alike for courses of study according to their individual liking, talents, and conditions with the right trend of skill and aptitude to achieve professional excellence in their line of expertise. The weaker points of personality are identified by specialists of the Career Guidance Deptt. of the institution. These are improved upon through counselling and advice provided in an appropriate package which in turn imparts outstanding characteristics of competence, efficiency, adjustability and

confidence inspiring personality.

For all the young girls who wish to learn a skill to become an earning member of the family or who wish to acquire expertise in tackling problems of domestic life through supplementing the family income or who are desirous of respectable employment or those who want Technical Diploma added to their University Degree, shall have ample opportunity to learn in the institution and brighten their prospects in their pursuits. The courses offered are as followed :

1. Fashion & Clothing Technology
2. Food Technology
3. Electronics
4. Travel & Tourism
5. Information Technology

Candidates may be exempted from the test if the preliminary interview can convince the authorities of the right aptitude of the candidate.

#### **HOW TO APPLY**

Candidates seeking admission to the Polytechnic are required to fill the prescribed form appended to the prospectus of the Polytechnic, which is priced at Rs. 200/-. The Prospectus and the forms can be purchased from the reception of the Indian Council of Education located at A-2/59 Safdarjung Enclave New Delhi - 110029 from 10.00 to 6.00 p.m. on all working days or can be downloaded from our Websites : [www:ice-online.org](http://www:ice-online.org)

#### **ADMISSION**

The admission shall be provided on first come first served basis as well as merit basis. The admission seats are limited for each course. The students are best advised to apply in time to secure admission and avoid disappointment. The students whose results are awaited or their mark sheets have not been provided well in time, will be admitted on provisional basis, subject to their fulfilling the stipulated admission qualifications later on. In case they fall short of those qualifications, the fees paid by them will not be refunded. **Sale of Prospectus-15<sup>th</sup> July to 15<sup>th</sup> August.** The session starts from September.

**The completed application form along with the First term fees and under mentioned documents, be remitted to the Principal of the Polytechnic at Village Hirmathla, Delhi-Alwar Road, Distt. Mewat, Haryana.**

1. An attested copy of the 10+2 Certificate.
2. An attested copy of the Mark Sheet of the last Exam passed.

3. A testimonial of good behavior and conduct from the Head of the Institution last attended or from a gazetted officer, M.P. or Metropolitan Councillor or Municipal Corporation member.
4. Two passport size Photographs.
5. Two envelopes with addresses of guardian/self addressed and affixed with Rs. 5/- stamps each.
6. A copy of Birth Certificate or any other government authorised certificate mentioning date of birth.

### **CHANGE / CLOSURE OF COURSES**

Once a student takes admission in a particular course she will not be allowed to change the course under any circumstances.

The Executive Committee of the Polytechnic can use its discretion for discontinuing a particular course if the number of students in that course does not exceed 15. The students affected will be given option to change to another course or withdraw.

### **MIGRATION FROM OTHER POLYTECHNIC**

Students from other Polytechnics can migrate on production of mark sheets of their previous Examinations. Such students shall pay only the remaining dues of the academic session.

### **WORK MATERIALS**

The stationery and other materials for theory and practical work have to be brought by the students. The Polytechnic has full right to keep the student's work for use in exhibitions or for any other purpose. Thesis/ Project reports submitted by the final year students will be submitted in two copies out of which one copy will be retained by the Polytechnic for records and the other one for Library.

### **EXAMINATIONS & TESTS**

The Polytechnic will conduct examinations at the end of every semester. (Practice tests in type-writing and short-hand will be held weekly to ensure steady progress and redressing of deficiencies). Results of both the Semesters will decide the Division on the Diploma.

### **ATTENDANCE**

All students shall regularly attend lectures and practicals throughout the session beginning with the first day of instruction. For appearing in the Second Semester Examination 75% minimum attendance is required.

The percentage of the attendance of lectures and practicals for every student will be

announced at the end of each term. It is the responsibility of individual student to be aware of their attendance record. Any student coming late by 10 minutes will be marked absent.

The students are expected to keep tracks of their attendance from time to time. The Polytechnic is not bound to inform students/parents about shortage of attendance except for issuing notice of termination from the class.

### **COMPARTMENT EXAMINATIONS**

All compartment candidates will be eligible to appear in the supplementary examinations to be held later. (Exact date will be specified each year). The First Semester Re-Exams are held every year in May and the Second semester Re-Exams are held every year in September/October, generally. Students are requested to keep in touch with the office to find out the exact Date Schedules.

All compartment candidates are eligible to appear again, with or without attending regular classes, the next year after paying the Examination fees. In case they want to attend any particular class, they must seek special adjustment with the concerned teacher and pay a fee of Rs. 500/- p.m. per subject.

### **RESULTS**

Within 6 weeks of the finishing of the Final Examinations, results of the successful candidates will be displayed on the Polytechnic Notice Board or announced in papers. Candidates securing 60% or above will be placed in 1st division, those getting less than 60% but not less than 50% will be placed in second division. Minimum pass marks shall be 40%. Students with 75% or above in the total will be entitled to a special Distinction/ Citation on the Diploma.

### **DISCIPLINE**

To ensure full benefit of the Polytechnic's instruction and education, the following requirements are enforced :

- a) Regular attendance and punctuality shall be observed.
- b) No missing or cutting of class shall be permitted.
- c) Misconduct in the shape of disobedience of the Principal/Director/Lecturer's lawful orders, rudeness or habitually coming late will not be tolerated.

The non-observation of proper discipline may lead to the students suspension or expulsion from the Polytechnic.

## **MEETING A STUDENT**

No guardian or parent shall see a student directly in the class room. The Lecturers have been specially asked to say a polite 'No' to such requests. Parents will kindly visit the reception room and forward the request in writing, through the reception, peon, to the Principal/Secretary.

## **FEES**

All fees shall be paid in cash and an official receipt must be taken from the Polytechnic cashier. This receipt must be produced when demanded. All dues must be paid by end of September, December and February.

Those who do not pay on the expiry of 10<sup>th</sup> day of these months their names will be struck off the Polytechnic rolls. Fines shall become payable for the interim period between the first day at the rate of Rs. 10/- per day. After 10<sup>th</sup> day a re-admission fee of Rs. 200/- shall be charged. The second and third year students have to pay first term fee in the month of June.

## **ALL FEES QUOTED IN THE POLYTECHNIC PROSPECTUS RELATE TO ONE ACADEMIC YEAR ONLY.**

**Note : All fees, Tuition, Admission, Examination & Hostel etc. will be decided later and are liable to review and change without any Notice.**

## **EXAMINATION FEES**

- i) **First Semester :**  
Examination fee of Rs. 500/- shall be charged along with second Term Fee.
- ii) **Second Semester :**  
Examination forms shall be submitted in the month of January along with an Examination fee of Rs. 500/-

## **REFUND**

The fees and subscription paid is non-refundable irrespective of whether a student joins or does not join after securing admission.

## **DAMAGE**

Students are advised not to mishandle the Polytechnic property. Damages to property, furniture or books etc. will be charged from the students to the extent of the same or replacement cost, as the case may be.



### **IDENTITY CARD**

On admission in the Polytechnic an identification card will be issued to each student. The student shall properly preserve this card which should be returned to the Polytechnic office when the students finally leave the institute. If in any case, the student misplaces or loses the I-Card, she will be given a duplicate copy only on submission of F.I.R./N.C.R.

### **NOTICE BOARD**

The Students, for their own convenience should read the notice board every day. New developments and other important announcements shall always be communicated by display on the Notice Board.

### **LIBRARY / RESOURCE CENTRE**

The important magazines and journals on different subjects of interest to the Polytechnic and other reference books have been provided in the library.

The library is open for students on Monday to Saturday from 11 a.m. to 7 p.m.

The annual membership fees for the Library is Rs. 500/- to Rs. 1000/- (depending on the course).

A compulsory security deposit of Rs. 1000/- is to be paid along with the annual membership fees. This security, deposit will be refunded after clearance of all library dues.

### **AWARDS & PRIZES**

1. First position in the final Examination in each course.
2. Well-behaved student in the Hostel.
3. The Best Exhibition Participant.
4. Most helpful student of the year.

### **LABORATORIES**

Students are not allowed to use the laboratory while wearing synthetic garments. They must wear the laboratory coat while working in the Home Science Laboratory.

Lecturers have been specially requested not to allow unauthorised persons to enter the laboratory.

## **COMPUTERS (IT)**

Most of the faculties of the Polytechnic are equipped with the latest in Information Technology. The students of all courses are taught the latest software applicable to their respective streams, at no extra charges. Internet access is available for some courses, for a certain time slot. Apart from which they can use the computers on all working days whenever the labs are free.

## **RESEARCH & DEVELOPMENT DEPARTMENT**

The Polytechnic also has a Research & Development Department comprising of the Chairman, Director, Advisory members and the Head of all Departments. This Dept. endeavours to imbibe the latest technologies and innovative teaching methodologies in all the courses to keep the students at par with the latest.

## **FACULTY**

The Polytechnic draws its strength from its faculty which has a strong academic base. The blend of qualification and experience enriches every individual trained under them. The faculty works on the principle of continuous improvement and regular upgradation of knowledge.

Apart from the regular full time faculty, industry experts in the form of guest faculty are also called from time to time to share their knowledge and invaluable experience with the students.

## **CURRICULUM**

A brief write-up of each course is given. The details and full contents of the syllabus for each year along with synopsis will be handed over to the students at the start of the session.

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**ADMISSION FORM**

1. Name (In block letters) Miss/Mrs. ....
2. Father's/Husband's Name .....
3. Father's/Husband's Occupation .....
4. Permanent Address .....
- .....
5. Telephone No. (If any) .....(M).....
6. Present Address of Student .....
- .....
7. Date of Birth .....8 Marital Status.....
9. Nationality .....
10. State whether Schedule Caste/Schedule Tribe/OBC/Physically Challenged/  
Not applicable

11. **Qualifications**

<b>Last Examination Passed</b>	<b>Name of the Board/ University/Institution</b>	<b>Aggregate % of Marks</b>	<b>Year of Passing/ Appearing</b>
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12. Hobbies; if any, -----

13. Course in which admission is sought (in order of Preference)

**Course** **Duration**

1...../.....

2...../.....

3...../.....

4...../.....

14. I hereby certify that I am applying for admission with the consent of my Parents/Husband and the information stated above is correct. I understand that fees once paid to the Polytechnic will not be refunded under any circumstances.

I also hereby declare that I will not seek to hold the Management or any employees of the Polytechnic responsible for any mishap to the student, while at or proceeding to or from her Polytechnic in the Chartered Buses.

Signature of Parent/Husband

Signature of Applicant

Dated : .....

Dated : .....

-----  
**FOR OFFICE USE ONLY**

**Course** .....

**Duration** .....

**Roll No.** .....**Receipt No** .....

**Date :**

**Admission Incharge :**

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**APPLICATION FOR HOSTEL**

1. Name (In block letters) Miss/Mrs. ....
2. Age .....Date of Birth .....
3. Father's/Husband's Name .....
4. Father's Occupaton and Address .....  
(if business, give details).....  
.....
5. Marital Status : .....
6. Local Guardians (i) Name .....Ph.: .....
- Address & Name .....
7. Contact in Emergency, Name.....Ph. : .....
8. Vegetarian/Non Vegetarian .....
9. Course in which admission is sought .....
10. Any special information you would like to mention .....

I hereby certify that I shall abide by all the rules of the Hostel regarding going to market, movie, local guardian's place or meeting visitors.

Signature of the Applicant

I certify that my ward will pay full Hostel dues in advance and will abide by the rules and regulations of the Hostel that may be enforced from time to time. I understand that Hostel fees once paid will not be refunded or adjusted.

Signature of the Student  
Date : .....

Signature of the Parent/Husband  
Date .....

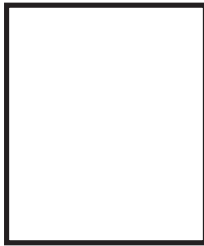
## HOSTEL LOCAL GUARDIAN FORM

**The Principal**

Mewat Gurukul  
International Institute of Advance Technology  
Polytechnic for Women  
Delhi Alwar-Road, Village Hirmathla,  
Distt. Mewat, Haryana

I, the Father/husband/Mother of Miss/Mrs. ....  
-----hereby allow the persons whose addresses and  
photographs are given below to take my ward for night out. I also agree to abide by all the  
rules and regulations that are applicable for the Hostel discipline.

**A**



**B**



**C**



A. 1. Name in Block Letters

2. Address .....

Phone No. ....Relation.....

B. 1. Name in Block Letters

2. Address .....

Phone No. ....Relation.....

C. 1. Name in Block Letters

2. Address .....

Phone No. ....Relation.....

Signature of the Parent / Husband

Address .....

.....Ph. No. ....

## CERTIFICATE OF HEALTH

**The Principal**

Mewat Gurukul  
International Institute of Advance Technology  
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I, the undersigned have examined Miss/Mrs. ....

-----D/o / W/o Shri .....

-----and certify that :

1. I know the student for Months/ Years.
  2. Is there any past serious illness?
  3. If so give details
  4. Are her eyes and ears fit?
  5. Has she any organic disease?
  6. Do you consider her to be physically fit for the Polytechnic as well as Hostel?
  7. General Remarks . .....
- .....

Signature of the Doctor

Date : .....

Note : This is to be obtained from a Regd. Medical Practitioner only. (Preferably a lady doctor)

## **COMPUTER NETWORK AND INFORMATION SECURITY**

### **COURSE CONTENTS**

- I. Salient Features of the Diploma Programme in Computer Engineering
2. Employment Opportunities of the Diploma Holders in Computer Engineering
3. Competency Profile of the Diploma Holders in Computer Engineering
4. Curriculum Areas Derived from Competency Profile
5. Abstract of Curriculum Areas
6. Horizontal and Vertical Organization of the Subject
7. Study and Evaluation Scheme
8. Detailed Contents of various Subjects

#### **FIRST SEMESTER**

- 1.1 Communication Skills - I
- 1.2 Applied Mathematics-I
- 1.3 Applied Physics-I
- 1.4 Applied Chemistry-I
- 1.5 Basics of Information Technology
- 1.6 Engineering Drawing-I
- 1.7 General Workshop Practice-I

#### **SECOND SEMESTER**

- 2.1 Communication Skills-II
  - 2.2 Applied Mathematics-II
  - 2.3 Applied Physics-II
  - 2.4 Applied Chemistry-II
  - 2.5 Basic Electrical Engineering
  - 2.6 Analog Electronics-I
  - 2.7 Programming in "C"
- Ecology and Environmental Awareness Camp*

#### **THIRD SEMESTER**

- 3.1 Operating Systems (OS)
- 3.2 Digital Electronics-I
- 3.3 Data Structure Using "C"
- 3.4 Microprocessors-I



- 3.5 Data Communication
- 3.6 Computer Work shop

#### **FOURTH SEMESTER**

- 4.1 Object Oriented Programming Using C++
- 4.2 Windows and Linux Operating System
- 4.3 Relational Data Base Management System (RDBMS)
- 4.4 Multimedia Applications
- 4.5 Computer Organization
- 4.6 Computer Peripherals and Interfacing  
*Entrepreneurial Awareness Camp*

#### **FIFTH SEMESTER**

- 5.1 Computer networks
- 5.2 Visual Basic
- 5.3 Internet and Web Designing
- 5.4 Elective-I
  - a) Oracle b) SQL Server
- 5.5 Software Engineering
- 5.6 Minor Project Work

#### **SIXTH SEMESTER**

- 6.1 Troubleshooting of Computer Networks
  - 6.2 Computer Graphics
  - 6.3 Microprocessors -II
  - 6.4 Elective-II
    - a) Network Security b) .Net c) Visual C++
  - 6.5 Entrepreneurship Development and Management,
  - 6.6 Major Project Work
- 
- 9. Resource Requirements
    - 9.1 Physical Resources
    - 9.2 Human Resources
    - 9.3 Financial Resources
  - 10. Recommendations for Effective Implementation of Curriculum in Computer Engineering
  - 11. List of Experts

# **FASHION & CLOTHING TECHNOLOGY**

## **COURSE CONTENTS**

- I. Salient Features of the Diploma Programme
2. Employment Opportunities
3. Competency Profile
4. Deriving Curriculum Areas from Competency Profile
5. Abstract of Curriculum Areas
6. Horizontal and Vertical Organisation of the Subject
7. Study and Evaluation Scheme
8. Detailed Contents of various Subjects

### **FIRST SEMESTER**

- 1.1 Communication Skills-I
- 1.2 Textile Science-I
- 1.3 Elements of Design
- 1.4 Basic Pattern Making and Style Interpretation-I
- 1.5 Fashion Illustration-I
- 1.6 Garment Construction-I

### **SECOND SEMESTER**

- 2.1 Communication Skills-II
  - 2.2 Textile Science-II
  - 2.3 Principles of Design
  - 2.4 Basic Pattern Making and Style Interpretation-II
  - 2.5 Fashion Illustration-II
  - 2.6 Garment Construction-II
- Ecology and Environmental Awareness Camp*

### **THIRD SEMESTER**

- 3.1 Garment Design-I
- 3.2 Pattern making and style Interpretation
- 3.3 Draping
- 3.4 Garment Construction-II
- 3.5 Traditional Indian Textiles
- 3.6 History of Costumes

- 3.7 Basics of Information Technology

#### **FOURTH SEMESTER**

- 4.1 Garment Design-II
  - 4.2 Pattern making and Grading
  - 4.3 Garment Construction-IV
  - 4.4 History of Fashion
  - 4.5 CAD in Fashion Design-I
  - 4.6 Craft Documentation
- Entrepreneurial Awareness Camp*

#### **FIFTH SEMESTER**

- 5.1 Pattern Making - I
- 5.2 Garment Construction- V
- 5.3 CAD in Fashion Design - II
- 5.4 Apparel Management and Quality Control
- 5.5 Minor Project Work
- 5.6 Industrial Training

#### **SIXTH SEMESTER**

- 6.1 Pattern making - II
  - 6.2 Fashion Retailing and Apparel Merchandizing
  - 6.3 Portfolio
  - 6.4 Major Project Work
- 
- 9. Resource Requirements
  - 10. Recommendations for Effective Implementation of Curriculum
  - II. List of Participants

**TRAVEL & TOURISM**  
Department of Tourism, Hotel, Hospitality  
and Heritage Studies  
**Course Structure**

**The following courses are to be offered to the students of diploma course in Tourism and Travel Management.**

- I. TTM I : Tourism Perceptions and Impacts
2. TTM II : Global Tourism
3. TTM III: Transportation and Travel Management
4. TTM IV: Services in Accommodation and Catering
5. TTM V : Sales and Marketing in Tourism
6. TTM VI : Fare structure and Ticketing
7. TTM VII : Foreign language
8. TTM VIII : Project and Viva

# **ELECTRONICS**

## **COURSE CONTENTS**

1. Salient Features of the Diploma Programme in Electronics and Communication Engineering (ECE)
2. Employment Opportunities of the Diploma Holders in ECE
3. Competency Profile of the Diploma Holders in ECE
4. Curriculum Areas Derived from Competency Profile
5. Abstract of Curriculum Areas
6. Horizontal and Vertical Organizations of the Subjects
7. Study and Evaluation Scheme
8. Detailed Contents of various Subjects

### **FIRST SEMESTER**

- 1.1 Communication Skills-I
- 1.2 Applied Mathematics-I
- 1.3 Applied Physics - I
- 1.4 Applied Chemistry-I
- 1.5 Basics of Information Technology
- 1.6 Engineering Drawing-I
- 1.7 General Workshop Practice - I

### **SECOND SEMESTER**

- 2.1 Communication Skills-II
- 2.2 Applied Mathematics-II
- 2.3 Applied Physics - II
- 2.4 Applied Chemistry-II
- 2.5 Basic Electrical Engineering
- 2.6 Analog Electronics-I
- 2.7 General Workshop Practice-II  
*Ecology and Environmental Awareness Camp*

### **THIRD SEMESTER**

- 3.1 Analog Electronics-II
- 3.2 Electronic Components and Materials (ECM)

- 3.3 Principle of communication Engineering
- 3.4 Digital Electronics-I
- 3.5 Electrical Machines
- 3.6 Electronic Instruments and Measurement

#### **FOURTH SEMESTER**

- 4.1 Network filter and Transmission Lines
- 4.2 Communication Engineering - I
- 4.3 Computer Programming and Applications
- 4.4 Digital Electronics-II
- 4.5 Microprocessor-I
- 4.6 Minor Project Work
- Entrepreneurial Awareness Camp

#### **FIFTH SEMESTER**

- 5.1 Consumer Electronics
- 5.2 Maintenance of Computer Systems (MOCS)
- 5.3 Trouble Shooting of Electronic Equipments
- 5.4 Communication Engineering - II
- 5.5 Elective-I
  - Optical Fiber Communication
  - Advanced Microprocessors
- 5.6 Power Electronics

#### **SIXTH SEMESTER**

- 6.1 Medical Electronics
- 6.2 Instrumentation
- 6.3 Digital and Data Communication
- 6.4 Elective-II
  - Micro Controllers and PLCs
  - Computer Organisation and Architecture
- 6.5 Entrepreneurship Development and Management
- 6.6 Major Project Work

- 9. Resource Requirements
- 10. Recommendations for Effective Implementation of Curriculum
- 11. List of Experts

# FOOD TECHNOLOGY

## COURSE CONTENTS

1. Salient Features of the Diploma Programme
2. Employment Opportunities
3. Competency Profile
4. Abstract of Curriculum Areas
5. Horizontal and Vertical Organization of the Subject
6. Study and Evaluation Scheme
7. Detailed Contents of various Subjects

### FIRST SEMESTER

- 1.1 Communication Skills-I
- 1.2 Applied Mathematics-I
- 1.3 Applied Physics-I
- 1.4 Applied Chemistry-I
- 1.5 Basics of Information Technology
- 1.6 Engineering Drawing-I
- 1.7 General Workshop Practice-I & II

### SECOND SEMESTER

- 2.1 Communication Skills-II
- 2.2 Applied Mathematics-II
- 2.3 Applied Physics-II
- 2.4 Applied Chemistry-II
- 2.5 Engineering
- 2.6 Basic Microbiology
- 2.7 General Workshop Practice-I & II

### THIRD SEMESTER

- 3.1 Food Microbiology
- 3.2 Food Chemistry and Nutrition
- 3.3 Principles of Food Processing and Preservation

- 3.4 Principles of Food Engineering
- 3.5 Handling Transportation and Storage of Foods
- 3.6 Technology of Cereals and Pulses

#### **FOURTH SEMESTER**

- 4.1 Technology of Milk & Milk Products
- 4.2 Fruit & Vegetable Technology
- 4.3 Technology of Meat, Fish & Poultry Products
- 4.4 Food Fermentation Technology
- 4.5 Technology of Non-Alcoholic Beverages
- 4.6 Bakery & Confectionery Technology

#### **FIFTH SEMESTER**

- 5.1 Computer Applications in Food Technology
- 5.2 Food Additives
- 5.3 Health & Functional Foods
- 5.4 Instrumentation and Process Control
- 5.5 Technology of Oils and Fats
- 5.6 Project Oriented Professional Training

#### **SIXTH SEMESTER**

- 6.1 Food Packaging Technology
  - 6.2 Food Analysis & Quality Control
  - 6.3 Waste Management in Food Industry
  - 6.4 Entrepreneurship Development and Management
  - 6.5 Project Work
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- 8. Reassure: Requirements
  - 9. Recommendations for Effective Implementation of Curriculum
  - 10. List of Participants



### Road Map

