ANNA UNIVERSITY OF TECHNOLOGY
COIMBATORE

DIRECTORATE OF ONLINE AND DISTANCE EDUCATION

ADVANCED DIPLOMA
(Calendar Year: 2008)

SYLLABUS
WITH CURRICULAM & REGULATIONS
This regulation is applicable to all candidates admitted into Advanced Diploma Programmes from the calendar year 2008 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE
   In this Regulation, unless the context otherwise requires:
   i) “Programme” means Advanced Diploma programme.
   ii) “Branch” means specialization or discipline of Advanced Diploma programme.
   iii) “Course” means a theory or practical subject that is normally studied.
   iv) “University” means ANNA UNIVERSITY OF TECHNOLOGY COIMBATORE.

2. PROGRAMMES OFFERED
   1. Animation, Graphics and Multimedia
   2. Architectural Computer Aided Design
   3. Automobile Maintenance
   4. Computer Aided Design
   5. Computer Aided Manufacturing
   6. Garment Manufacturing Technology
   7. Interior Design
   8. Knitwear Technology
   9. Network Administration
   10. Software Testing
   11. Spinning Supervisorship
   12. Tool and Die Making

3. ADMISSION
   1. Candidates seeking admission to the Advanced Diploma Programme should possess any three year diploma in polytechnic college or equivalent.
   2. The eligibility criteria shall be prescribed by the Syndicate of the University from time to time.
4. **STRUCTURE OF PROGRAMME**
   1. Every Programme shall have a curriculum comprising of theory and practical courses, and a project work with well defined syllabi.
   2. The medium of instruction, examinations and project report shall be in English.

5. **DURATION AND PATTERN**
   A student is normally expected to complete the Advanced Diploma Programme in one year but in any case not more than 3 years from the admission.

6. **INTERACTIVE LEARNING PROGRAMME**
   1. Interactive Learning Programmes are arranged on Saturdays and Sundays or on Public Holidays. University will arrange Tele Conference / Case Studies in different centres after due notification.
   2. Students need to effectively use the ILPs where they can interact with the faculty. The schedule of ILP will be notified in the website. However attending the ILP classes are not mandatory for Advanced Diploma programmes.

7. **SYSTEM OF EXAMINATION**
   1. Each course (theory and practical) and project work shall be evaluated for a maximum of 100 marks.
   2. The University examinations of 3 hours duration shall ordinarily be conducted between December & January and between May & June.

8. **REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATION**
   A candidate shall normally be permitted to appear for the University examination of the current year if he/she satisfied the following condition requirement:
   - Student is expected to attend all ILP classes and secure 100% attendance. However, in order to allow for certain unavoidable reasons, the student is expected to attend at least 50% of the ILP classes (Three pair of Saturday and Sunday). For Advanced Diploma programmes the attendance in ILP classes is not mandatory.
   - Registration is mandatory for current semester / year examinations as well as arrears examinations. Student is expected to register for examination for all courses of that semester / year.
9. PASSING REQUIREMENTS

1. A candidate, who secures not less than 40% of total marks prescribed for all the courses, shall be declared to have passed the Examination. If a candidate fails to secure a pass / absent in a particular course, it is mandatory that he/she register and reappear for the examination in that course during the next examination is conducted in that course; he/she should continue the same till he/she secures a pass.

2. A candidate who opts for project work shall be declared to have passed in the Project work and Viva–voce examination, if he/she secures an overall minimum of 40% marks. If a candidate fails to secure a pass / absent in the Project work and Viva-voce examination may be permitted to resubmit a project and appear for the viva – voce for the second time if so recommended by the examiners. No candidate shall be permitted to submit the project work and appear for the Viva – Voce on more than two occasions.

Note: - If a student indulges in malpractice in any of the University examinations, he/she shall be liable for punitive action as prescribed by the University from time to time.

10. ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to the eligible for the award of the Advanced Diploma Degree provided the student has

- Successfully completed the course requirements and passed all the prescribed examinations within a maximum period 3 years reckoned from the commencement of the course to which the candidates was admitted.

- The award of Degree must have been approved by the Syndicate of the University.

11. CLASSIFICATION OF THE DEGREE AWARDED

1. A candidate who qualifies for the award of the Degree having passed the examination in all the courses in his/her first appearance within a maximum period of 1 year (1 year from the admission) and securing an aggregate of not less than 75% of total marks shall be declared to have passed the examination in Distinction.

2. A candidate who qualifies for the award of the Degree having passed the examination in all the courses within a maximum period of 1 year reckoned from the commencement of study and securing an aggregate of not less than 60% of total marks shall be declared to have passed the examination in First Class.
3. A candidate who qualifies for the award of the Degree having passed the examination in all the courses not within a maximum period of 1 year reckoned from the commencement of study and / or securing an aggregate of less than 60% of total marks shall be declared to have passed the examination in Second Class.

4. All other candidates shall be declared as failed candidates.

12. GRADING SYSTEM

<table>
<thead>
<tr>
<th>Marks</th>
<th>Grade</th>
<th>Grade Legend</th>
<th>Grade Points</th>
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<tbody>
<tr>
<td>95% - 100%</td>
<td>O</td>
<td>Outstanding</td>
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<tr>
<td>90% - 94%</td>
<td>E</td>
<td>Excellent</td>
<td>9.5</td>
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<tr>
<td>86% - 89%</td>
<td>A</td>
<td>Very Good</td>
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<tr>
<td>76% - 85%</td>
<td>B</td>
<td>Good</td>
<td>8.0</td>
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<tr>
<td>66% - 75%</td>
<td>C</td>
<td>Above Average</td>
<td>7.0</td>
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<tr>
<td>56% - 65%</td>
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<td>Below 40%</td>
<td>RA</td>
<td>Reappearance</td>
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<td>-</td>
<td>W</td>
<td>Withheld</td>
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<tr>
<td>-</td>
<td>AB</td>
<td>Absent</td>
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## ADVANCED DIPLOMA CURRICULUM

### ADVANCED DIPLOMA IN ARCHITECTURAL COMPUTER AIDED DESIGN

**Branch Code - 401**

<table>
<thead>
<tr>
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<th>Course</th>
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<td>CIVIL AUTOCAD</td>
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<td>140102</td>
<td>ARCHITECTURAL DESIGN</td>
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<tr>
<td>140103</td>
<td>CONSTRUCTION ENGINEERING MATERIALS</td>
<td>100</td>
<td>3</td>
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<tr>
<td>140104</td>
<td>SOLID MODELING</td>
<td>100</td>
<td>3</td>
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<tr>
<td>140105</td>
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<tr>
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**Total Credits 18**

### ADVANCED DIPLOMA IN COMPUTER AIDED DESIGN

**Branch Code - 402**

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<thead>
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<th>Course</th>
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<td>AUTO CAD</td>
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<td>140202</td>
<td>ENGINEERING DESIGN</td>
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<td>140203</td>
<td>INDUSTRIAL ROBOTICS AND AUTOMATION</td>
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<td>140204</td>
<td>PRO ENGINEER</td>
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<td>COMPUTER AIDED DESIGN AND MANUFACTURING</td>
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**Total Credits 18**

### ADVANCED DIPLOMA IN COMPUTER AIDED MANUFACTURING

**Branch Code - 403**

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<tr>
<td>140201</td>
<td>AUTO CAD</td>
<td>100</td>
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<tr>
<td>140202</td>
<td>ENGINEERING DESIGN</td>
<td>100</td>
<td>3</td>
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<tr>
<td>140203</td>
<td>INDUSTRIAL ROBOTICS AND AUTOMATION</td>
<td>100</td>
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<tr>
<td>140301</td>
<td>CNC PROGRAMMING</td>
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<td>140302</td>
<td>COMPUTER INTEGRATED MANUFACTURING</td>
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<td>140303</td>
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**Total Credits 18**
### ADVANCED DIPLOMA INTERIOR DESIGN

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<td>ART AND ARCHITECTURE</td>
<td>100</td>
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<tr>
<td>140402</td>
<td>INTERIOR DESIGN CONCEPTS AND APPLICATIONS</td>
<td>100</td>
<td>3</td>
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<tr>
<td>140403</td>
<td>SPACE DESIGNING</td>
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<tr>
<td>140404</td>
<td>FURNITURE AND FURNISHINGS</td>
<td>100</td>
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<tr>
<td>140405</td>
<td>BUILDING SERVICES</td>
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<td>140406</td>
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**Total Credits** 18

### ADVANCED DIPLOMA IN SOFTWARE TESTING

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<td>FUNDAMENTALS OF SOFTWARE TESTING</td>
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<td>140503</td>
<td>SOFTWARE TESTING TOOLS</td>
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<tr>
<td>140504</td>
<td>SOFTWARE PROJECT MANAGEMENT</td>
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<tr>
<td>140505</td>
<td>MANAGING THE TESTING PROCESS</td>
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<td>140506</td>
<td>SOFTWARE TESTING LAB</td>
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**Total Credits** 18

### ADVANCED DIPLOMA NETWORK ADMINISTRATION

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<tr>
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<td>DATA COMMUNICATION AND COMPUTER NETWORKS</td>
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<td>140602</td>
<td>NETWORK OPERATING SYSTEMS</td>
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<tr>
<td>140603</td>
<td>TCP AND IP</td>
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<td>140604</td>
<td>ESSENTIALS OF NETWORK PROGRAMMING</td>
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**Total Credits** 18
### ADVANCED DIPLOMA TOOL AND DIE MAKING

Branch Code - 407

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<tr>
<td>140201</td>
<td>AUTO CAD</td>
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<td>3</td>
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<td>140301</td>
<td>CNC PROGRAMMING</td>
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<td>140701</td>
<td>ENGINEERING MATERIALS</td>
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<tr>
<td>140702</td>
<td>TOOL AND DIE TECHNIQUES</td>
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<tr>
<td>140703</td>
<td>MANUFACTURING TECHNOLOGY</td>
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<td>140704</td>
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**Total Credits** 18

### ADVANCED DIPLOMA AUTOMOBILE MAINTENANCE

Branch Code - 408

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<tr>
<td>140801</td>
<td>AUTOMOBILE ENGINES</td>
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<td>140802</td>
<td>AUTOMOTIVE FUELS AND COMBUSTION</td>
<td>100</td>
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<tr>
<td>140803</td>
<td>CHASSIS, SUSPENSION AND TRANSMISSION</td>
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<td>140804</td>
<td>AUTOMOBILE BRAKING AND ELECTRICAL SYSTEM</td>
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<tr>
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<td>MAINTENANCE MANAGEMENT</td>
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**Total Credits** 15

### ADVANCED DIPLOMA IN KNITWEAR TECHNOLOGY

Branch Code - 409

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<td>140901</td>
<td>FUNDAMENTALS OF TEXTILE MATERIALS</td>
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<tr>
<td>140902</td>
<td>PROCESSING OF KNIT FABRIC</td>
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<tr>
<td>140903</td>
<td>KNITTING TECHNOLOGY</td>
<td>100</td>
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<tr>
<td>140904</td>
<td>TEXTILE TESTING</td>
<td>100</td>
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<tr>
<td>140905</td>
<td>APPAREL MARKETING AND MERCHANDISING</td>
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**Total Credits** 15
### ADVANCED DIPLOMA IN GARMENT MANUFACTURING TECHNOLOGY

**Branch Code - 410**

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<tr>
<td>140901</td>
<td>FUNDAMENTALS OF TEXTILE MATERIALS</td>
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<tr>
<td>140902</td>
<td>PROCESSING OF KNIT FABRIC</td>
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<td>TEXTILE TESTING</td>
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<td>140905</td>
<td>APPAREL MARKETING AND MERCHANDISING</td>
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<td>141001</td>
<td>FASHION AND APPAREL DESIGN</td>
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### ADVANCED DIPLOMA IN SPINNING SUPERVISORSHIP

**Branch Code - 411**

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<tr>
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<td>FUNDAMENTALS OF TEXTILE MATERIALS</td>
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<tr>
<td>141101</td>
<td>FIBRE PREPARATION</td>
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<td>141102</td>
<td>YARN MANUFACTURING AND QUALITY CONTROL</td>
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<td>141103</td>
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### ADVANCED DIPLOMA IN ANIMATION, GRAPHICS AND MULTIMEDIA

**Branch Code - 412**

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<td>141201</td>
<td>INTRODUCTION TO GRAPHICS AND MULTIMEDIA</td>
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<tr>
<td>141202</td>
<td>MULTIMEDIA AND WEB DESIGNING TOOLS</td>
<td>100</td>
<td>3</td>
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<tr>
<td>141203</td>
<td>FLASH AND 3DS MAX</td>
<td>100</td>
<td>3</td>
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<tr>
<td>141204</td>
<td>ANIMATION USING MAYA</td>
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<td>141205</td>
<td>PRINCIPLES OF VIRTUAL REALITY</td>
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<td><strong>Total Credits</strong></td>
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ADVANCED DIPLOMA SYLLABUS

140101 - CIVIL AUTOCAD

OBJECTIVE: To provide comprehensive guide to understand concepts, create perfect designs and manage every stage of the project through AutoCAD Civil 3D 2008.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:
Plan Production – Preparation of Plan Sets – Uses of Views Frames and Match Lines –
Handling Inbound Data – Sharing the Model – Visualization - AutoCAD 3D Modeling Workspace –
Visualizing Civil 3D Objects.

Text Books: Dana Probert, James Wedding, “Mastering AutoCAD Civil 3D 2008”, Wiley India,
2007
OBJECTIVE: To provide a thorough understanding of the properties of various types of engineering materials commonly used in civil industry

MODULE 1:

MODULE 2:

MODULE 3:
Concrete - Characteristics of Good Concrete – Advantages and disadvantages of Concrete - Uses of Concrete – Classification of Concretes – Plain Cement Concrete – Properties of Cement Concrete – Water-proof Concrete – Precast Concrete – Reinforced Cement Concrete – Prestressed Concrete – Special Concretes – Concreting Under Water – Placing Concrete in Cold water – Placing Concrete in Hot-weather – Deterioration of Concrete and its Prevention – Admixtures – Joints in Concrete – Formwork – General Precautions in Cement Concrete Construction – Hollow Block Partitions of Concrete – Strengths of Concrete – Quality Control of Concrete.

MODULE 4:

MODULE 5:
MODULE 6:

OBJECTIVE: To impart the fundamental aspects of solid modeling techniques that improves the quality of real time models in the mechanical engineering industry.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
140102 – ARCHITECTURAL DESIGN

MODULE 1:
Art-History Of art, Types of Arts- Sculpture, Engraving, Paintings and Drawings- Types, Techniques and tools in drawing and paintings. Traditional Indian Arts, Review of Western Arts and its relevance in modern interior designing

MODULE 2:
Architecture- Definition and meaning, Bases for Development, Principles and elements, qualities, and Goals of Architecture

MODULE 3:
Aesthetic components of design and aesthetic qualities, Factors influencing architectural design-Environmental factors, Litigation factors

MODULE 4:
World Architecture- Egyptian, Greek, Roman, Gothic- Characteristic features Indian Architecture-Hindu-North and South Characteristic features, Christian And Muslim-Characteristic features

MODULE 5:
Contemporary Architecture-Theme, philosophy and works of famous architects- Frank Lloyd Wright, Le Corbusier, Louis Isadore Kahn (Germany), Charles Correa and B.V. Doshi (India)

MODULE 6:
Landscape Architecture-Meaning and definition, Principles of landscape design, Elements, Parking lot design Styles of garden, planting-Trees, shrubs, Ground cover flowerbeds etc. Design of parks –Analysis, zoning Climate- Temperature, Solar radiation, wind, humidity and precipitation climate control techniques- effect of vegetation, wind flow, water ponds wall openings

Text Books:
OBJECTIVE: To understand the environmental problems and to protect the environment from the natural disasters.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
Ecosystem Biodiversity – Species Diversity – Genetic Diversity – Global Diversity – The Value of Biodiversity – Biodiversity and Ecosystem function – Biodiversity – Hot Spots – Bio-wealth – Biotic Impoverishment – Biodiversity conservation – Biotechnology and Biodiversity – Milestones of Convention of Biodiversity (CBD) – Main Players in CBD.

MODULE 6:

Text Books:
OBJECTIVE: To provide comprehensive guide to learn the basic of AutoCAD 2008 for building quality 2D drawings and 3D models.

MODULE 1:

MODULE 2:

MODULE 3:
3D Drawings – About 3D Modeling Workspace – 3D Using Solids and Surfaces – Changing Point of View – Creation of 3D Forms from 2D Shapes – Specification of Distances in 3D Space – Controlling the Appearance of Model

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
George Omura, “Introducing AUTOCAD 2008”, Wiley India, 2007
140202 - ENGINEERING DESIGN

OBJECTIVE: To impart the basic knowledge of traditional engineering graphical communication and design modeling using Unigraphics NX.

MODULE 1:  

MODULE 2:  

MODULE 3:  

MODULE 4:  

MODULE 5:  

MODULE 6:  

Text Books:  
OBJECTIVE: To provide fundamentals of robotics including components, characteristics, languages and applications.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

OBJECTIVE: To provide fundamental aspects of designing complex models with great precision through Pro E Wildfire 3.0

MODULE 1:

MODULE 2:

MODULE 3:
Options Aiding Constructions of Parts – Creating Holes – Creating Rounds – Creating Chamfers – Creating Ribs – Editing Features of a Model - Creating Features Patterns – Copying Features – Mirroring a Geometry – Creating a Section of the Solid Model.

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
Sham Tickoo, “Pro/ENGINEER Wildfire 3.0”, DreamTech Press, 2008
OBJECTIVE: To provide a comprehensive guidance of how every aspect of design and production operations is integrated and automated to improve productivity and efficiency.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:

Text Books:
OBJECTIVE: To provide comprehensive guide to learn the basic of AutoCAD 2008 for building quality 2D drawings and 3D models.

MODULE 1:

MODULE 2:

MODULE 3:
3D Drawings – About 3D Modeling Workspace – 3D Using Solids and Surfaces – Changing Point of View – Creation of 3D Forms from 2D Shapes – Specification of Distances in 3D Space – Controlling the Appearance of Model

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
George Omura, “Introducing AUTOCAD 2008”, Wiley India, 2007
**OBJECTIVE:** To impart the basic knowledge of traditional engineering graphical communication and design modeling using Unigraphics NX.

**MODULE 1:**

**MODULE 2:**

**MODULE 3:**

**MODULE 4:**

**MODULE 5:**

**MODULE 6:**

**Text Books:**
**OBJECTIVE:** To provide fundamentals of robotics including components, characteristics, languages and applications.

**MODULE 1:**

**MODULE 2:**

**MODULE 3:**

**MODULE 4:**

**MODULE 5:**

**MODULE 6:**

140301 - CNC PROGRAMMING

OBJECTIVE: To understand the development process, principles of operation and manufacturing features of CNC machines.

MODULE 1:


MODULE 2:


MODULE 3:

Programmable Logic Controller Characteristics – G-Function and G-Codes – Cutter Compensation Function – Incremental Programming

MODULE 4:

Setting the CNC Machine – Home Position – Coordinate System Preset – Work Coordinates – Tool Offset Consideration – Setting up Tools on the Lathe – Imaginary Tool Tip Method – CNC Turning Centre – Setting up Tools on the Machining Centre – CNC Programming – CNC Machining Centre – CNC Turning Centre – APT Language – Motion Statements

MODULE 5:


MODULE 6:


Text Books:
OBJECTIVE: To present the basic principles of computer integrated manufacturing and highlight the interactions among its elements.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
140401 – ART AND ARCHITECTURE

MODULE 1:
Art-History Of art, Types of Arts- Sculpture, Engraving, Paintings and Drawings- Types, Techniques and tools in drawing and paintings. Traditional Indian Arts, Review of Western Arts and its relevance in modern interior designing

MODULE 2:
Architecture- Definition and meaning, Bases for Development, Principles and elements, qualities, and Goals of Architecture

MODULE 3:
Aesthetic components of design and aesthetic qualities, Factors influencing architectural design-Environmental factors, Litigation factors

MODULE 4:
World Architecture- Egyptian, Greek, Roman, Gothic- Characteristic features Indian Architecture-Hindu-North and South Characteristic features, Christian And Muslim-Characteristic features

MODULE 5:
Contemporary Architecture-Theme, philosophy and works of famous architects- Frank Lloyd Wright, Le Corbusier, Louis Isadore Kahn (Germany), Charles Correa and B.V. Doshi (India)

MODULE 6:
Landscape Architecture-Meaning and definition, Principles of landscape design, Elements, Parking lot design Styles of garden, planting-Trees, shrubs, Ground cover flowerbeds etc. Design of parks –Analysis, zoning Climate- Temperature, Solar radiation, wind, humidity and precipitation climate control techniques- effect of vegetation, wind flow, water ponds wall openings

Text Books:

Reference:
140402 – INTERIOR DESIGN CONCEPTS AND APPLICATIONS

MODULE 1:
Design- definition, requirements of a good design, Types- natural and decorative, types of decorative design. Design development –types of motifs. Process of designing

MODULE 2:
Elements of design- line and direction, shape, form, pattern, texture, space, size, and light. Characteristics of different elements and its application in interior design

MODULE 3:
Principles of design- Balance, rhythm, emphasis, harmony and scale and proportion. Types and ways to achieve the principles and its application in interior design.

MODULE 4:
Colour- colour theories- prang colour chart, Ostwald and Munsell colour system. Qualities and characteristics. Colour harmonies- related and contrast. Planning colour- colour plan, development of colour plan, application of principles of design in use of colour, colour schemes for specific areas. Colour psychology and after image. Inter relationships of colours

MODULE 5:
Light- importance in Interior design, types of lighting- natural and artificial, methods of lighting, effect of light on colour, Use of light in different areas. Light fixtures and accessories- modern market trends-a survey. Accessories in Interiors- types and selection. Use of accessories in different areas and different occasions. Plants and flower arrangement-natural and artificial- role in interior decoration

MODULE 6:
Project on application of design elements and principles in Interior and evaluation, -Case studies

Text Books:
Pratap Rao, Interior Design Principles and Practice, Standard Publishers Distributors, New Delhi
140403 – SPACE DESIGNING

MODULE 1:

MODULE 2:
Types of plans- site plan, criteria for selection of site; Floor plan, section and elevation plans and perspective views and landscape plan. Building byelaws and Space standards.

MODULE 3:
Allocation of space for various activities in house/ Apartments-living, dining, sleeping, studying, personal activities and cooking. Bathrooms- planning, finishes used, Lighting and accessories. Kitchen planning-factors to be considered, work triangle, types of work space in kitchen, sequence of activities, Dimensions of work centres, use of anthropometry in kitchen design, Materials and finishes used. Types and styles of kitchen, Accessories in kitchen, Modular kitchen, Merits and de merits. Drawing kitchen designs

MODULE 4:
Office planning and interior designing- objectives and benefits of space planning, Work flow, work stations, Executive core, Rest rooms, Partitions and false ceiling-types, Furniture and Equipment accommodation, Prestige symbol, materials used for different components and landscaping. Banks- administration, banking and safe deposit vaults. Layout plan

MODULE 5:
Planning of Commercial and recreational buildings - location, allocation of space for different areas- administration, public areas- car parking, rest rooms, planning of shops and departmental stores, Recreational centres- Cinema theatres, auditorium, Hotels, Restaurants, club house, health centres, community centres, public library and Town halls. Layout plan

MODULE 6:
Planning of hospitals and educational buildings-Hospitals-Dispensaries, clinics, Maternity homes and nursing homes, Location, administrative blocks, Outpatient departments, Wards, Duty rooms, Surgery unit, Canteen and staff accommodation. Educational –Teaching area, play area, administrative block, examination block, Demonstration area, auditorium, Comfort stations and other amenities. Layout plan

Text Books:

References:
Agarwala S.C. Interior Decoration, Dhanpat Rai and Co. New Delhi
140404 – FURNITURE AND FURNISHINGS

MODULE 1:
Furniture-Importance, classification- purpose, materials, place of use. Styles of furniture-Traditional, contemporary modern and combination of styles, Upholstered and case goods,

MODULE 2:
Design Development- General features, construction details-Types of Joints, materials used, Modular furniture, mobile furniture, moulded furniture, innovative materials and use of anthropometry in furniture design

MODULE 3:
Room plans and Furniture arrangements- planning for different activities and different buildings, Traffic pattern and furniture layouts

MODULE 4:
Soft furnishings- meaning, importance, classification, floor coverings-rugs and carpets, importance, types and materials used and modern trends. Cushions, slip covers, bed linen, table linen, kitchen linen, and bath room linen. - Types, care and maintenance.

MODULE 5:
Window treatments- Types of windows, types of window treatments, curtains and draperies, Decorative heads-cornice, valance and swag, materials used and method of construction, Fabric and selection of design, types of pleats. Creating designs for different areas. Curtain accessories- curtain rod, hooks and fasteners.

MODULE 6:
Professional presentation- Visualisation- envisioning the end result and selecting right fabric and colour suitable for each mood and concept, occasion and theme. Estimation of cost using a market survey. Preparing power point presentation.

Text Books:
Dantyagi S, Fundamentals of Textiles and their care. Orient Longmann Ltd. New Delhi
140405 – BUILDING SERVICES

MODULE 1:
Building services - Introduction, meaning and definition, Classification of buildings based on occupancy and type of construction (NBC). Chief considerations in building designs

MODULE 2:

MODULE 3:
Water supply and sanitation- Water supply requirements for Buildings, WS Fittings, Storage capacities, flushing storage, Maintenance of House pipe lines, Sanitary Fittings, Principles of house Drainage, Drainage plans for building, Rainwater drainage, Septic Tanks- house, Public, Design and Commissioning

MODULE 4:
Lifts and Escalators, Meaning, Purposes, Classification, types of lifts, Lift codes and Rules, Components of lifts, Quantity and quality of service, car Speed, Accidents in elevators and safety precautions, and Provisions for Fire safety.

MODULE 5:
Acoustics and Integrated Services- Noise and its control, Noise in buildings and its Reduction- at source, by proper planning and layout, Noise insulation, Classes of occupancies for sound insulation and sound proofing schemes - Air conditioning systems- types, construction and working, packaged air conditioners, cooling loads, AC Systems for different types of buildings, Protection against fire caused by AC Systems.

MODULE 6:
Fire safety Installation-Causes of fire, Safety regulations, NBC- Planning considerations in buildings. Heat and Smoke Detectors, Fire alarm system, snorkel ladder, Fire fighting pump and water storage, Dry and wet risers, and Automatic sprinklers. Special features required for physically handicapped and elderly in building types.

Text Books:
R.Udayakumar, A Text book on building services, Eswar Press, T. Nagar,Chennai

References:
Er.V.K.Jain, Designing and Installation of services in building Complexes and High Rise buildings, Khanna Publishers, Delhi
OBJECTIVE: To imbibe the knowledge of managing and maintaining quality issues concerned with the software design, development and maintenance.

MODULE 1:
Overview - People's Quality Expectations - Software Quality Perspectives and Expectations - Quality Frameworks and ISO – 9126 - Correctness and Defects - Definitions, Properties and Measurements A Historical Perspective of Quality

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
Jeff Tian, Software Quality Engineering: Testing, Quality Assurance, and Quantifiable Improvement, Wiley-India Edition
OBJECTIVE: To address the resource needs of software testing professionals and to equip them by providing step-by-step guidelines, checklists, and templates for each testing activity


MODULE 3: Overview of the Software Testing Process - Organizing for Testing.-test manager appointment-scope of testing-appointing test teams-documentation-estimation of project status-Developing the Test Plan.-software project profile-project risk-testing technique-buid and inspect test plan-Verification and validation and validation Testing.-reports.


140503 - SOFTWARE TESTING TOOLS

OBJECTIVE: To impart the fundamental concepts with details of the testing process and widely used automated, sophisticated testing tools.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Book:
OBJECTIVE: To inculcate the fundamental practices of good project management needed by software industry.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To provide the fundamental aspects of practical tools and techniques for managing the software testing process.

MODULE 1:

MODULE 2:

MODULE 3:
Test Tracking Spreadsheet – Making Enhancements – Test Tracking System in Motion – Extracting Metrics from the Test Tracking Spreadsheet – Defining Test Execution Process – Managing Test Hardware and Software Configuration Logistics – Change Management Database – Case Study

MODULE 4:
Need for Test Lab - Selecting and Planning a Lab Area – The Test Lab Inventory – Security and Tracking Concerns – Managing Equipments and Configurations – Keeping the Test Environment Clean – Human Factors – Qualities of Good Test Engineers – Defining the Test Team – Organizational Modules – Hiring Testers – Motivation of Test Team – Temporary Experts and Implementers – Case Study

MODULE 5:
Test Group – Functions of Test Group – Directions of Test Management – Documentation – Layoffs and Liquidation – Importance of Accuracy and Audience – Test Partners – Planning a Distributed Test Effort – Managing a Distributed Test Effort – Case Study

MODULE 6:

Text Books:
OBJECTIVE: To impart the fundamental concepts, terminologies and technologies used in modern days data communication and computer networking.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
140602 - NETWORK OPERATING SYSTEMS

OBJECTIVE: To provide comprehensive guidance to deployment and administration of windows server.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:

Text Books:
**OBJECTIVE:** To understand their fast growing technologies related to networks and internetworking.

**MODULE 1:**

**MODULE 2:**

**MODULE 3:**

**MODULE 4:**

**MODULE 5:**

**MODULE 6:**

**Text Books:**
OBJECTIVE: To provide comprehensive guidance for building robust, high performance networked systems in any environment.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
140605 - ADVANCED SOCKET PROGRAMMING

OBJECTIVE: To import the fundamental aspects of advanced socket programming for building high performance networked systems.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:

Text Books:
OBJECTIVE: To provide comprehensive guide to learn the basic of AutoCAD 2008 for building quality 2D drawings and 3D models.

MODULE 1:

MODULE 2:

MODULE 3:
3D Drawings – About 3D Modeling Workspace – 3D Using Solids and Surfaces – Changing Point of View – Creation of 3D Forms from 2D Shapes – Specification of Distances in 3D Space – Controlling the Appearance of Model

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
George Omura, “Introducing AUTOCAD 2008”, Wiley India, 2007
ELEMENTARY CIRCUIT THEORY

OBJECTIVE: To understand the development process, principles of operation and manufacturing features of CNC machines.

MODULE 1:

MODULE 2:

MODULE 3:
Programmable Logic Controller Characteristics – G-Function and G-Codes – Cutter Compensation Function – Incremental Programming

MODULE 4:
Setting the CNC Machine – Home Position – Coordinate System Preset – Work Coordinates – Tool Offset Consideration – Setting up Tools on the Lathe – Imaginary Tool Tip Method – CNC Turning Centre – Setting up Tools on the Machining Centre – CNC Programming – CNC Machining Centre – CNC Turning Centre – APT Language – Motion Statements

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To impart the practical knowledge about analytical and design aspects of various manufacturing processes.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:

Text Books:
OBJECTIVE: To provide the major broad general areas of tooling and related techniques.

MODULE 1:
- Research and Ideation – Tentative Design Solutions – The Finished Design – Drafting and Design
- Techniques in Tooling drawings – Screws and Dowels – Hole location – jig-boring practice –
- Installation of Drill Bushings – Punch and Die Manufacture – Electro-discharge machining –
- Electro-discharge machining for cavity.

MODULE 2:
- Mild, or low-carbon Steel – Nonmetallic Tooling Materials – Nonferrous Tooling Materials – Metal
- classification – Taps – Tap classification- the selection of carbide cutting tools – Determining the
- insert thickness for carbide tools

MODULE 3:
- Introduction – Fixed Gages – Gage Tolerances – The selection of material for Gages –
- Indicating Gages – Automatic gages – Principles of location – Locating methods and devices –
- Principles of clamping – Drill jigs – Chip formation in drilling – General considerations in the design
- of drill jigs – Drill bushings – Methods of construction – Drill jigs and modern manufacturing

MODULE 4:
- Introduction – Fixtures and economics – Types of Fixtures – Vise Fixtures – Milling Fixtures
- Boring Fixtures – Broaching Fixtures – Lathe Fixtures – Grinding Fixtures – Types of Die
- construction – Die-design fundamentals – Blanking and Piercing die construction – Pilots –
- Strippers and pressure pads- Presswork materials – Strip layout – Short-run tooling for Piercing

MODULE 5:
- Introduction - Bending dies – Forming dies – Drawing operations – Determining Blank Size
- Drawing Force – Single and Double action Draw Dies – Plastics used as Tooling Materials –
- Application of Epoxy Plastic Tools – Construction Methods of Plastic Tooling – Metal forming
- Operations – Calculating Forces

MODULE 6:
- Introduction – The need for numerical control – A basic explanation of numeric control –
- Numerical control systems in use today – Fixture design for numerically controlled machine tools –
- Cutting tools for numerical control – Tool holding methods for numerical control – Automatic tool
- changers and tool positioners – Tool presetting – Introduction – General explanation of the Brown
- and sharp machine – tooling for Automatic screw machines

Text Books:
OBJECTIVE: To provide a thorough understanding of the properties of metallic materials and metallurgical aspects of various engineering metals and alloys.

MODULE 1:

MODULE 2:

MODULE 3:
Introduction to Alloy Steels – Alloying Elements in Steels – Effect of Alloying Elements – Classification of Alloy Steels – Miscellaneous Alloy Steels

MODULE 4:

MODULE 5:
Introduction to Copper and its Alloys – Commercial Grades of Copper – Copper Alloys – Brasses – Bronzes – Copper-Nickel Alloys

MODULE 6:

Text Books:
140801 - AUTOMOBILE ENGINES

MODULE 1:
Introduction to automobile- Brief history- Classification- parts of an automobile- Description- performance- rolling wind and gradient resistance. Heat engines- internal and external combustion engines- development and classification- Application of IC Engines- Engine cycle- energy balance

MODULE 2:
Parts of IC engines- cylinder, head, piston, Rings, connecting rod, Crankshaft-Flywheel and Governor -Types of Governors- Value operating mechanisms- Valve -Petrol engine parts- Sparkplug- Operating range- Firing voltage -Carburetor –Fuel pump- Diesel engine parts- Fuel atomizer- IC Engines bore, stroke, BDC, TDC, Swept volume compression ratio.

MODULE 3:
Working cycles- Otto cycle, Diesel cycle, Dual combustion cycle- four stoke Ottocycle engines- four stoke diesel cycle engine- Valve timing diagrams- Two stroke petrol engine- Compression ignition engines- Comparison of four stoke and Two stroke engines- SI and CI engines.

MODULE 4:
Testing and performance of IC engines-power and mechanical efficiency-basic measurement-speed ,fuel consumption, air consumption ,smoke density, measurement of indicated power-engine friction-measurement of fractional power- engine performance curves-SFC –Fuel consumption load output and exhaust composition-Governing of IC engines-Noise abatement-Heat balance sheet-Morse test

MODULE 5:

MODULE 6:
Construction and working of Two stoke engines- Port timing diagram- disadvantage of Two stoke SI engines and CI engines- Scavenging efficiency- scavenging systems- Loop scavenging- Cross scavenging- Crankcase scavenging-Scavenging pumps blowers.

Text Books:
MODULE 1:

MODULE 2:
Advantages of high octane fuel- properties of SI engine fuels- Diesel fuel- Cetane number- diesel index- alternative fuels for IC engines- advantages and disadvantages- alcohol as fuels- methane as a fuel- ethanol as fuel- properties of ethanol and methanol- fuel blends- hydrogen as fuel advantages and disadvantages- Natural gas fuel advantages and disadvantages- Biogas.

MODULE 3:
Purpose of supercharging- object- supercharging of SI engines- boost pressure and pressure ratio- supercharging power- supercharging of CI engines- Superchargers- supercharging arrangements- turbochargers- altitude compensation- methods of turbo charging- Problems

MODULE 4:

MODULE 5:
Performance chamber- Combustion chamber design- Induction Swirl- Squish and table- Quench area- Turbulence- Surface to volume ratio- Compression ratio- Types of combustion chambers- Divided combustion chamber- Combustion in CI engines- Three phases of CI engine combustion- factors affecting combustion- combustion in diesel engines- Delay period in CI engines- Diesel knock- CI engine combustion chambers- Types- Cold starting aids.

MODULE 6:
Cooling air and water requirements. Cooling systems- Role of anti-freeze solution- Phenonmosyphon cooling- Forces cool systems- Prescribed water cooling- Evaporation cooling- Components of water cooling systems. Water jacket, water pump fan, thermostat, connecting hoses, radiators- Specification- the cooling system cooling system data of some Indian vehicles.

Text Books:
140803 - CHASSIS, SUSPENSION AND TRANSMISSION

MODULE 1:
Chassis- Classification- Fitting of engine- Engine fitted ingrown but crosswise- Frame-Functions- types of frames- defects in chassis frame- body – vehicle dimensions- Introduction to suspension system- Functions and requirements- Elements of a supervision system

MODULE 2:
Springs- Types of springs- Dampers- telescopic, rocking lever- Suspension systems-Independent suspension- Four wheel independent front suspension- Stabilizer- Rigid suspension-Independent rear suspension-Interconnected suspension systems- Hydroelectric, hydra gas-Suspension systems of Indian automobiles

MODULE 3:
Wheels and tyros – Wire wheel- Light alloy cast rip wheels –Tyres- Functions- Types of tyres- Tubeless tyre- Tyre construction – Radial ply construction - Tyre material- Tyre shape-tread pattern- Tyre markups- type inflation pressure- causes of tyre wear- Factors affecting tyre life- Tyre maintenance- Enhancing tyre life- Wheel balancing systems

MODULE 4:
Requirements of transmission system- Types- clutch- gearbox- and line axle transmission-Circles’ of transmission system- clutch- Function and requirements – Principal of operation- Friction materials- Friction and cone clutch –Single plate clutch- Multiplate clutch- Plate clutch parts- Centrifugal clutch- automatic clutch adjustment- Gearbox- Ratios- Types of gear boxes- sliding mesh gear box- Constant mesh gear box-

MODULE 5:
Synchromesh- Progressive type gear boxes- Maruthi800 Gearbox- Gear shifting-Transfercase- Troubleshooting of gearbox- Gear boxes used in India automobiles – Automatic transmission- Overdrive- Four-wheel unit – Propeller shaft- Hotchkiss type propeller shaft- Crowrushing universal joints- Construction and working- Type of universal joints- Final drive and differcital- Bevel and hypoid- Bevel gear- Differential-rear axles- Half floating rear axle- Causes of axle failures- Real axle noises-

MODULE 6:
Purpose of steering system- Function- Requirements of a good steering system- General arrangement- Working of steering mechanism—Description of steering parts-Steering gears-Worm and roller sleeping gear- rack and pinion sleeping gear- sleeping ration- Reversibiling-Sleeping geometry- Wheel alignment- King pin inclination caster- Toe –Out- Checking of wheel alignment – Steering Mechanisms –Steering gear mechanisms- Under steering and over treeing- steering linkages- steering wheel and column – Steering arm- Draglink –Power steering-Fundamentals- Types of power steering systems- Electronic power steering- steering geometry-steering troubleshooting- Front axle- Construction- Type of front axles- Stub axles- Braking system.

Text book:
140804 - AUTOMOBILE BRAKING AND ELECTRICAL SYSTEM

MODULE 1:

Introduction - necessity of a braking system-functions of brakes-requirements of a good braking system-classification of brakes mechanical brakes- hand brakes -disc brakes- hydraulic brakes-advantages- bleeding of brakes-hill holder-power brakes-air brakes- main parts-engine exhaust brake-vacuum brakes-electric brakes-factors controlling the stop of an automobile-break shoes and linkages brake testers-break service

MODULE 2:

Introduction to electrical system-typical automotive electrical system-battery system-types of batteries-chemistry of a lead acid battery-Zinc air battery-Capacity of a battery-Efficiency, primary, secondary cells-battery rating-battery maintenance-battery charging-battery data of automobiles-factors affecting battery life-battery faults and troubles-dry charged batteries-battery testing-specific gravity test, high rate discharge test-starting motor-description field coil windings – drive unit-Overrunning clutch-Magnetic switch or relay.

MODULE 3:


MODULE 4:


MODULE 5:

Lighting and accessories-Main circuits of the automobile electrical system-Car wiring diagram-Symbols used-Lighting system-Wiring circuit –Fuses-Head lights-Pre focus bulb-Head lamp-Head lamp double filament-Light switch-Dimmer and stop light switch-Indicating lights

MODULE 6:

Trouble shooting of lighting system-Essential accessories-Types of horn-Windscreen wiper-Water temperature gauge-Speedometer and odometer assembly-Ventilating system-Heating system- Air conditioning system-Components

Text Books:
MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

OBJECTIVE: To provide in-depth knowledge of the origins, properties and manufacture of fabric.

MODULE 1:

MODULE 2:
Animal Fibres – Wool – Silk – Casein – Fibre – Soyabean Protein Fibre – Peanut Fibre – Corn Fire

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To make the students to understand the basics of processing the knitted fabric.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To make the students to understand the basics of Knitting Technology.

MODULE 1:
Weft Knitting Machines and Industry – Knitting Terms and Functional Elements – Selection Criteria in Weft Knitting – Principal Stitches in Weft Knitting – Basic Structures and Notations in Weft Knitting – Basic Machines and Fabrics

MODULE 2:
Double Knit Structures – Patterning in Weft Knitting – Needle Selection Techniques in Circular Knitting Machines – Weft Knit Fabric Geometry

MODULE 3:
Knitting Dynamics – Quality Control in Circular Weft Knitting – Circular Knitting Developments – Calculations in Weft Knitting

MODULE 4:
Finishing of Knitted Fabrics – Wrap Knitting – Functional Elements of Wrap Knitting – Patterning in Wrap Knitting – Tricot and Raschel Machines – Principal Stitches of Wrap Knitting

MODULE 5:
Structures of Wrap Knitting – Yarn Preparation, Yarn Feed and Fabric Take-up – Wrap Knit Fabric Geometry and Calculations

MODULE 6:
Specialty Wrap Knits – Warp Knitted Technical Textiles – Flat Bed Knitting – Hosiery Socks Knitting

Text Books:
OBJECTIVE: To impart the fundamental aspects of textile testing in different stages like fibre, yarn, and in fabric.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:

Text Books:
OBJECTIVE: The subject aims at familiarizing the students with world fashion scenario.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To provide in-depth knowledge of the origins, properties and manufacture of fabric.

MODULE 1:

MODULE 2:
Animal Fibres – Wool – Silk – Casein – Fibre – Soyabean Protein Fibre – Peanut Fibre – Corn Fire

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To make the students to understand the basics of processing the knitted fabric.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To provide a fundamental concepts and principles of fashion and apparel designing.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
Prints – Definition and Importance – Types of Prints – Necklines – Definition and Importance – Types of Necklines – Sleeve Styles – Cuffs

MODULE 6:

Text Books:
OBJECTIVE: To impart the fundamental aspects of textile testing in different stages like fibre, yarn, and in fabric.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
MODULE 6:


Text Books:

**OBJECTIVE:** The subject aims at familiarizing the students with world fashion scenario.

**MODULE 1:**

**MODULE 2:**

**MODULE 3:**

**MODULE 4:**

**MODULE 5:**

**MODULE 6:**

**Text Books:**
OBJECTIVE: To provide in-depth knowledge of the origins, properties and manufacture of fabric.

MODULE 1:

MODULE 2:
Animal Fibres – Wool – Silk – Casein – Fibre – Soyabean Protein Fibre – Peanut Fibre – Corn Fire

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To make the students to understand the processes involved in preparation of the textile fibre material before converting into yarn.

MODULE 1:

MODULE 2:
Blow Room – Objectives – Stages Involved in Blow Room Process – Auto Mixer and Multimixer Machine - Opener and Cleaning Section – Classification of Openers and Beaters – Feeding Techniques – Beater Elements – Conventional Openers and Beaters – Improved Openers and Beaters – Features of Recent Development in Openers and Beaters.

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To familiarize the students with the final processes involved in preparation of the yarn.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To make the students to understand the various aspects of maintaining spinning machineries.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
OBJECTIVE: To familiarize the students with the installation, production, and maintenance of the industrial operation.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books:
**OBJECTIVE:** To impart the fundamental concepts of Computer Graphics and Multimedia.

**MODULE 1:**

**MODULE 2:**

**MODULE 3:**

**MODULE 4:**

**MODULE 5:**

**MODULE 6:**

**Text Books:** -

**References:** -
OBJECTIVE: To provide all-round exposure on various multimedia and web development tools

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:
Introduction to Dreamweaver MX – Working with Tables, Anchors and Frameset – Layers and Style sheets – Forms and Media Elements

MODULE 6:

Text Books:
OBJECTIVE: To provide all the aspects of various animation tools

MODULE 1:

MODULE 2:

MODULE 3:
Animation in Flash – Working with Timeline Effects – Using the Transform Timeline Effect – Using the Explode Timeline Effect – Using the Frame-by-Frame Animation Technique – Using Motion Tweening to Create Animations – Using Shape Tweening to Create Animations – Animating Filters – Applying the Bevel Filter – Applying the Glow Filter – Animating the Filter using the Motion Tween.

MODULE 4:

MODULE 5:

MODULE 6:
Lights – Standard and Photometric Lights – Key Light, Fill Light and Back Light – Default Lightning – Creating Standard Light Objects – Modifying Parameters of Light Object – Animation in 3dsMax – Understanding Frames, Key Frames and Keys – 3dsMax Animation Tools – Changing the number of Frames – Animating Objects in Auto Key and Set Key Mode – Working with the Motion Panel – Assigning a Path Constraint

OBJECTIVE: To provide clear knowledge about the use, design and implementation of animation software development using Maya 2008

MODULE 1:

MODULE 2:
Polygon Modeling in Maya 2008 – Exploring the Components of a Polygon Mesh – Creating a Polygon Mesh – Modifying a Polygon Mesh

MODULE 3:
NURBS Modeling – NURBS Curves – Creating a NURBS Curve – Editing a NURBS Curve – Creating NURBS Surface – Editing a NURBS Surface

MODULE 4:
Animating Objects in Maya 2008 – Basics – Types of Animation – Using the Animation Controls – Animating an Object Using Key Frame Animation – Adding Sound to an Animation – Previewing an Animation

MODULE 5:
Shading, Texturing and Lighting – Shader Types – Shader Attributes – Hyper shade – Using Hyper shade – Maya Lights – Adding Shadows – Mental Ray Lighting – Lightning Effects

MODULE 6:

Text Books:
OBJECTIVE: To impart the fundamental aspects, principles and applications of virtual reality technology.

MODULE 1:

MODULE 2:

MODULE 3:

MODULE 4:

MODULE 5:

MODULE 6:

Text Books: