

Diploma Courses

Sec A		Sec B	
Part - I	Part -II	Part - I	Part -II
4 Subjects & 1 Lab (REB -1)	4 Subjects & 1Lab (REB -2)	4 Subjects &1 Lab (REB -1)	3 Subjects Compulsory, 2 from elective &1 lab (REB - 2)

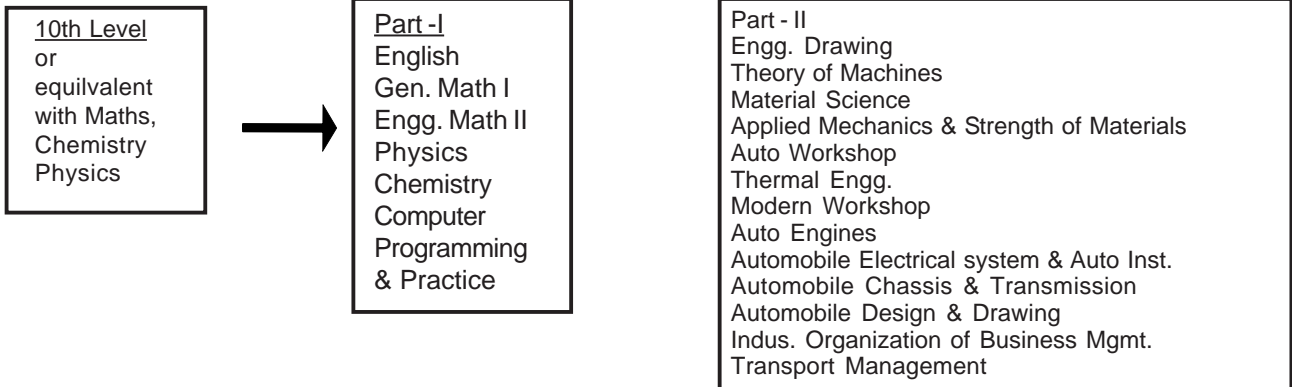
Students should also undergo a project work and a course in communication skills & Technical Writing.

BRANCH WISE SUBJECTS WITH CODES :

<u>Electronics & Telecommunication</u>	<u>Computer Science & Engineering</u>
<p>Sec-A Part-I DE51 Engineering Mathematics I DE52 Fundamentals of Electrical & Electronics DE53 Computer Fundamentals & C Programming DE54 Engineering Materials DE91 C Programming Lab</p> <p>Part-II DE55 Engineering Mathematics - II DE56 Analog Electronics DE57 Networks & Transmission Lines DE58 Logic Design DE92 Analog Electronics Lab</p>	<p>Sec-A Part-I DC51 Engineering Mathematics I DC52 Fundamentals of Electrical & Electronics DC53 Computer Fundamentals & C Programming DC54 Data Structures DC91 C & Data Structures Lab</p> <p>Part-II DC55 Engineering mathematics - II DC56 Object Oriented Programming with C++ DC57 Computer Organization DC58 Logic Design DC92 OOPS Lab</p>
<p>Sec-B Part-I DE59 Electronics Instrumentation & Measurements DE60 Microprocessors & Microcontrollers DE61 Analog Communications DE62 Telecommunication Switching Systems DE93 Logic Design Lab</p> <p>Part-II DE63 Digital Communications Networks Elective - I Elective -II DE94 Analog & Digital Communications Lab DE64 Project Work</p> <p>ELECTIVE SUBJECTS (ANY TWO) DE65 Control Engineering DE66 Wireless & Mobile Communications DE67 Embedded Systems DE 68 Television Engineering DE69 Data Communication & Networks DE70 Object Oriented Programming with C++ DE71 Power Electronics DE99 Communication Skills & Technical Writing</p>	<p>Sec-B Part-I DC59 Analysis & Design of Information Systems DC60 Java & Web Programming DC61 Operating System & Systems Software DC62 Database Management Systems DC93 Java and web Pro Lab</p> <p>Part-II DC63 Data Communication & Networks Elective - I Elective -II DC94 DBMS Lab DE64 Project Work</p> <p>ELECTIVE SUBJECTS (ANY TWO) DC65 Software Engineering DC66 Computer Graphics DC67 Embedded Systems DC68 Microprocessors & Microcontrollers DC 69 C# and Net DC70 Network Management DC71 Internet Applications DC99 Communication Skills & Technical Writing</p>

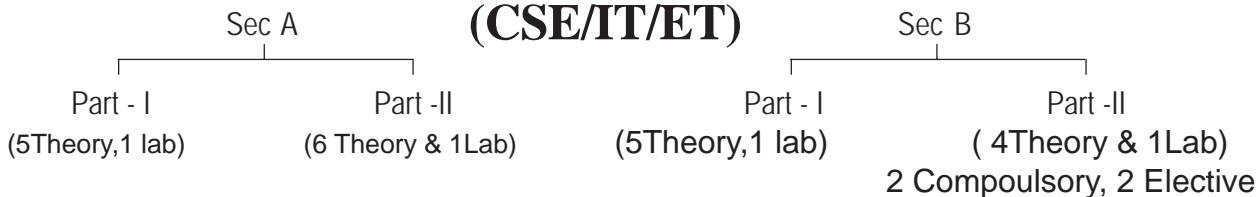
The course on Communication Skills & Technical Writing is mandatory but would not count towards overall CGPA. They can appear it anytime during the course. The student should appear in section A Part - I first and then in Part - II. If a student appears in a part in first attempt, he can appear in the subsequent part in next attempt even though he/ she may not have passed in the subjects of the previous part. Notwithstanding above, a student will not be allowed to complete the curriculum in less than three years unless he has been exempted in some subjects

Diploma In Automobile Engineering



Degree Course

(CSE/IT/ET)



Branch wise subjects with codes :

Computer Sc. & Engg.

Sec A

Part - I

- AC51 Engineering, Mathematics - I
- AC52 C & Data Structures
- AC53 Electronic Devices & Circuits
- AC54 Linear ICs Digital Electronics
- AC55 Object Oriented Programming
- AC91 Data Structures with C & C++ Lab

Part- II

- AC56 Engineering Mathematics - II
- AC57 Signals & Systems
- AC58 Computer Organization
- AC59 Operating Systems & Systems Software
- AC60 Computer Graphics
- AC61 Database Mgmt. System
- AC92 DBMS Lab

Sec B

Part-I

- AC62 Operations Research & Engineering Management
- AC63 Software Engineering
- AC64 Design & Analysis of Algorithms
- AC65 Discrete Structures

Information Technology

Sec A

Part - I

- AT51 Engineering Mathematics - I
- AT52 C & Data Structures
- AT53 Electronic Devices & Circuits
- AT54 Linear ICs & Digital Electronics
- AT55 Object Oriented Programming with C++
- AT91 Data Structures

Part- II

- AT56 Engineering Mathematics - II
- AT57 Signals & Systems
- AT58 Computer Organization
- AT59 Operating Systems & Systems Software
- AT60 Computer Graphics
- AT61 Database Mgmt. System
- AT92 DBMS Lab

Sec B

Part-I

- AT62 Operations Research & Engineering Management
- AT63 Software Engineering
- AT64 Design & Analysis of Algorithms
- AT65 Multimedia System

Electronics and Telecommunication

Sec A

Part - I

- AE51 Engineering Mathematics - I
- AE52 C & Data Structures
- AE53 Electronic Devices & Circuits
- AE54 Linear ICs & Digital Electronics
- AE55 Principles of Electrical Engineering
- AE91 Analog Electronics Lab.

Part- II

- AE56 Engineering Mathematics - II
- AE57 Signals & Systems
- AE58 Material Processes
- AE59 Circuit Theory and Designing
- AE60 Inst. & Mnt.
- AE61 Control Engg.
- AE92 Digital Electronics Lab

Sec B

Part-I

- AE62 Operations Research & Engineering Management
- AE63 Electromagnetics & Radiation System
- AE64 Telecommunication Switching
- AE65 Analog Communication

MATRIZ COLLEGE Prospectus

AC66 Microprocessors & Microcontrollers
 AC93 Analysis and Desing of Algorithms Lab
Part-II
 AC67 Data Communication & Computer Network
 AC68 Finite Automata & Formula Languages
Elective - I
Elective - II
 AC94 μ P & μ C Lab
 AC69 Project Work
 AC70 Seminar
Electives Any Two
 AC71 Unix Systems Programs
 AC72 Linux Internals
 AC73 C# and .Net
 AC74 Aritificial Intelligence & Neural Networks
 AC75 Internet Applications
 AC76 Cryptography & Net work Security
 AC77 DSP
 AC78 Advanced Microprocessors
 AC99 Communication Skills & Technical Writing

AT66 Microprocessors & Microcontrollers
 AT93 Analysis and Desing of Algorithms Lab
Part-II
 AT67 Data Communication & Comp. Networks
 AT68 Java & Web Proggm.
Elective - I
Elective - II
 Java & Web Proggm. Lab
 AT69 Project Work
 AC70 Seminar
Electives Any Two
 AT71 Unix Systems Programs
 AT72 Linux Internals
 AT73 C# and Net
 AT74 Aritificial Intelligence & Neural Networks
 AT75 Internet Applications
 AT76 Cryptography & Net work Security
 AT77 e-Commerce
 AT78 Data Mining & warehousing
 AT99 Communication Skills & Technical Writing

AE66 Microprocessors & Microcontrollers
 AE93 Microprocessor & C Lab
Part-II
 AE67 Degital Communication
 AE68 Embedded Systems Design
Elective - I
Elective - II
 AE94 Analog & Digital Communication Lab
 AE69 Project Work
 AE70 Seminar
Electives Any Two
 AE71 Data Communication & Computer Networks
 AE72 Microwave Theory & Techniques
 AE73 Information Theory & Coding
 AE74 VLSL Design
 AE75 Optoelectronic & Communication
 AE76 Wireless & Mobile Communications
 AE77 DSP
 AE78 Radar & Navigational Aids
 AE99 Communication Skills & Technical Writing

Diploma In Civil/Architectural Engineering

Civil

Part-1

TC 1.1: Basic Civil Engineering
 TC 1.2: Technical writting
 T.C 1.3: Engineering Physics And Applied Mechanics
 T.C 1.4 : Engineering Mathematics
 T.C 1.5: Engineering Drawing
 T.C 1.6: Engineering Chemistry

Part-II

TC 2.1: Surveying
 TC.2.2 Fluid Mechanics and machinery
 T.C 2.3: Soil Mechanics
 T.C 2.4: Mechanics of soil
 T.C 2.5: Basic Structure Design
 T.C2.6: Environmental engineering
 T.C 2.7: Construction Technology
 T.C 2.8 Estimation, Costing & Specification
 T.C 2.9 Civil Engg. Design

Architectural

Part-1

TA 1.1: Basic Architectural Engineering
 TA 1.2: Technical writting
 T.A 1.3: Engineering Physics And Applied Mechanics
 T.A 1.4 : Engineering Mathematics
 T.A 1.5: Engineering Drawing
 T.A1.6: Engineering Chemistry

Part-II

TA2.1: History of Architectural
 TA.2.2 Free hand drwaing Painting
 T.A 2.3: Building costruction
 T.CA2.4: Structural Mechanics
 T.A 2.5: Theory of Structures
 T.A2.6: Estimation and Costing
 T.A 2.7: Surveying and levelling
 T.A 2.8: Architectural desing and graphics
 T.A 2.9: Building Meterial and Science
 T.A 2.10: Environmental Engineering.

Degree in Civil/Architectural Engineering

CIVIL

Sec-A

- AC 1.1: Advanced Engineering Mathematics
- AC 1.2: Advanced strength of material
- A.C 1.3: Computer Programming and Numerical Methods
- A.C 1.4 : Foundation Engineering
- A.C 1.5: Reinforced Concrete structures and advanced Concrete Technology
- A.C 1.6: Design of steel structures

Sec-B

- BC 2.1: Applied Hydraulics and Fluid Machines
- BC.2.2 : Machine Foundation
- BC 2.3: Advanced reinforced Concrete Design
- B.C 2.4: Optimazation in Structural Design
- B.C 2.5: Environmental engineering

Another five subjects to be opted from four groups.

Architectural

Section A

- AA1.1: Advanced Engineering Mathematics
- AA 1.2: Advanced strength of material
- A.A 1.3: Computer Programming and Numerical Methods
- A.A 1.4 : Foundation Engineering
- A.A1.5: Reinforced Concrete structures and advanced Concrete Technology
- A.A 1.6: Design of steel structures]

Section B

- BA 2.1: Profesional Practise and architectural Engineering
- BA.2.2: Finishes, materials and Specification.
- B.A 2.3: Building Servises
- B.A 2.4: Advanced Structural Desing
- B.A 2.5L: Environmental Engineering

Any Five Subjects from the following

- BAO 3.1 Elements of town Planning and Architecture
- BAO 3.2 Rehabilitation of structure
- BAO 3.3 Advanced Architectural Desing
- BAO3.4 Interior Desing
- BAO3.5 Landscape Architecture
- BAO 3.6 Disaster Management for Building
- BAO 3.7 Advanced Coputer application For Architechture