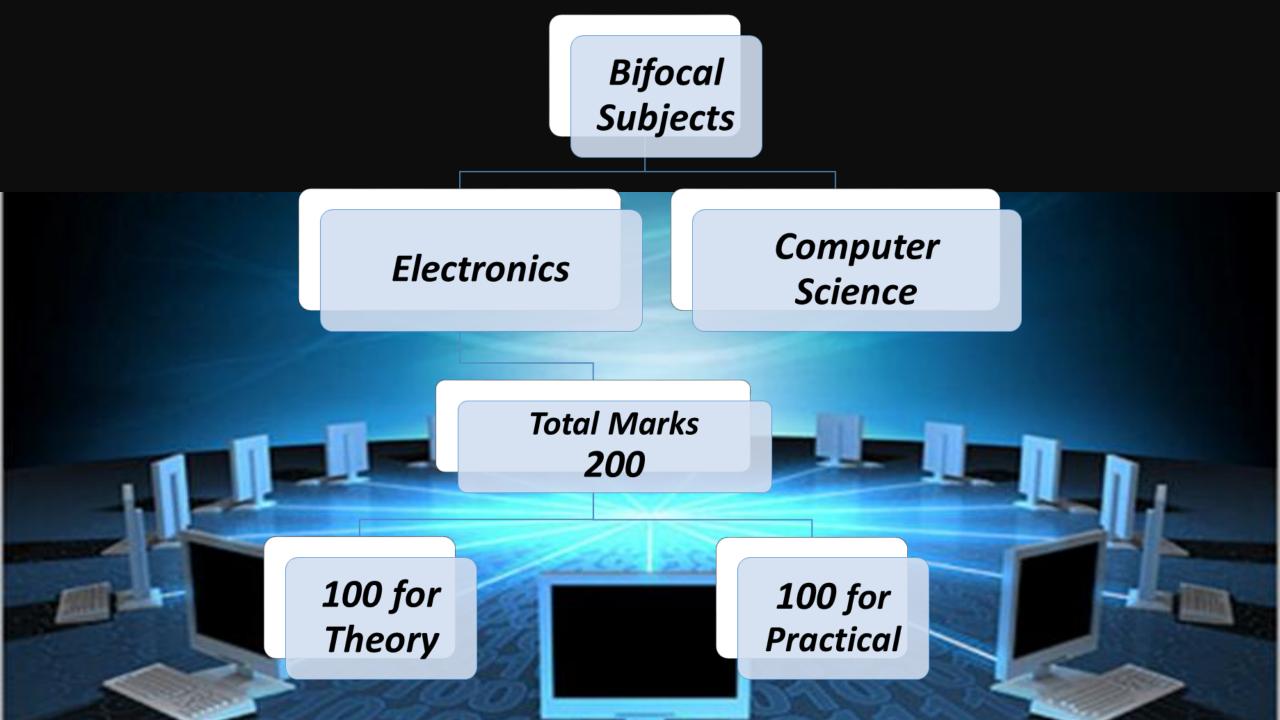
VASANTRAO NAIK MAHAVIDYALAYA

AIRPORT ROAD, CIDCO, AURANGABAD

Department of Computer Science & IT

Introduction to Bifocal Subject in 11th & 12th science





• get exposure to Engineering.

- Bifocal allow to skip second language and Biology subject during class 11th and 12th,
- It is 200 marks elective subject like Electronics or Computer science



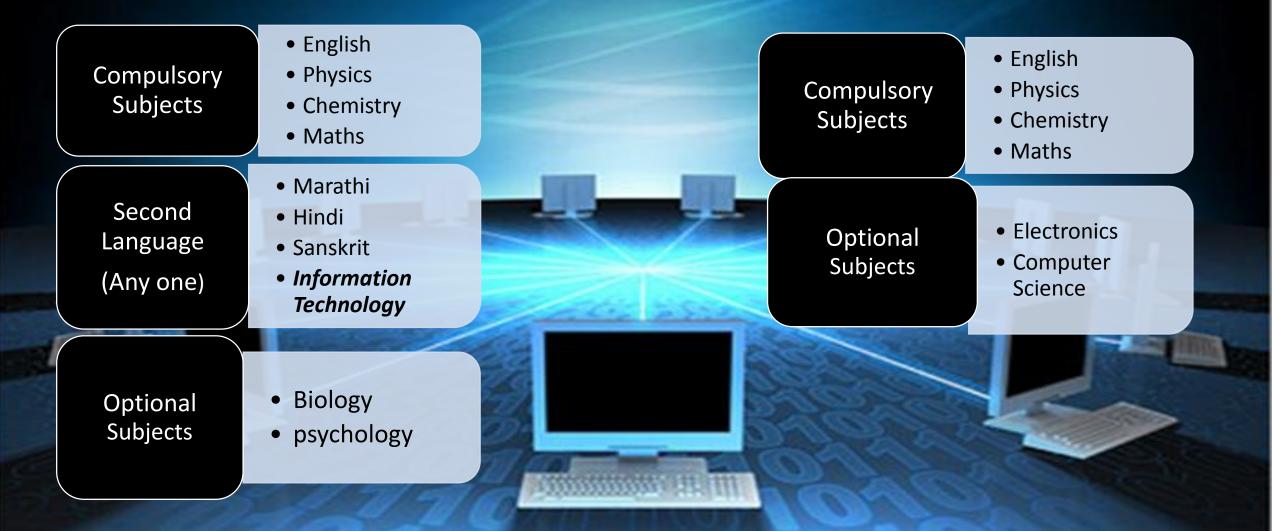
SYALLBUS



<u>Courses structure</u>

General science

Bifocal science



Advantages of Bifocal Subjects

- preparing for competitive exams like JEE & MHT-CET.
- students gets good HSC score
- Bifocal subjects are Scoring subject.
- It helps you in getting direct admission to second year of diploma in the selected branch.



Syllabus

Electronics

≻11 th Syllabus

Paper I

- 1. Source of Power
- 2. AC Fundamentals
- 3. Instruments
- 4. Study of Components Paper II
- 1. Semiconductors
- 2. Study of Transistors
- 3. Study of Semiconductor components
- 4. Amplifiers
- 5. Oscillators

12 th Syllabus

Paper I

- **1. Electronic Instruments**
- 2. DC Power supplies
- 3. **Operational Amplifiers**
- 4. Electronic communication
- 5. Study of Integrated ICs Paper II
- 1. Number System
 - Logic Gates

2.

5.

6.

7.

- 3. Logic Families & IC
- 4. Multiplexer, Encoder & Decoders
 - Flip- Flop, Counters
 - A/D and D/A Converters
 - Computer Fundamental

Syllabus Computer Science

11th Syllabus

Paper I

- 1. Number System
- 2. Program Analysis
- 3. Introduction to C++
- 4. Visual Basic
- 5. Introduction to Networking & Internet Paper II
- 1. Study of Components & Circuits
- 2. Logic gates & Sequential Circuits
- **3.** Fundamental Hardware Parts of PC
- 4. Peripheral Devices

12th Syllabus

Paper I

- 1. Operating System
- 2. Data structurs
- **3.** C++ Programming
 - . HTML
 - Paper II
 - Introduction in Microprocessors & Organization of 8085
- 2. Instruction Set and Programming of 8085
- 3. Introduction to Intel X-86 Family
- 4. Introduction to Microcontroller
- 5. Networking Technology

For More details Contact to : Department of Computer Science Vasantrao Naik Mahavidyalaya, Aurangabad.

