

MAYO COLLEGE

INFORMATION PRACTICES (IP)

CLASS XI – PA I

Introduction of Computer System:

Computer system –

- I/O Devices
- CPU
- Memory, hard disk, battery, power
- Transition from a calculator to a computer and further to smart devices.
- Basic operations of operating system Basic concept of Data representation: Binary, ASCII, Unicode

Introduction Python Programming:

- Print statements
- Data-types
- Tokens - keywords,
- Identifiers, Literals, Delimiters. Knowledge of data type and operators

CLASS XII

Data Handling (DH-2)

- **Advanced operations on Data Frames:** pivoting, sorting, and aggregation
- **Descriptive statistics:** min, max, mode, mean, count, sum, median
- **Create a histogram, and Quantiles.**

Data Management (DM-2)

- Flat file and CSV file.
- Interface Python with an SQL database
- SQL commands: aggregation functions, having, and group by, order by.

Society, Law and Ethics (SLE-2)

- Intellectual property rights
- Privacy laws, fraud; cybercrime
- Technology and society ,
- E-waste management
- Role of new media in society