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# Unit – 1

## 1.1 Semiconductor Devices

### Energy Bands

#### Introductions

* The electrons of an isolated atom are acted upon only by the forces within the atom.
* In a solid, when atoms are bought together, the electrons come under the influence of forces from other atoms,
* Under these conditions, the energy levels may be occupied by electrons merge into bands of energy levels.
* Within any given material there are two distinct energy bands in which electrons may exist.
* This energy gap is termed as forbidden energy gap (or forbidden gap).

## 1.2 Valence Band & Conduction Band

### Valence Band

1. The energy band of interest is the highest energy band or valance band.
2. If sufficient amount of energy is given to an electron in the valance band, the electron is freed from the atomic structure.
3. Such an electron is said to possess enough energy to be in the conduction band, where it can take part in electric current flow.

# Unit-2 Office Automation Tool - 1

## MS Word

MS Word is used to create,edit and read a documents.

#### Creating:-

We are with the help of MS word Create a Document as per our needs.

#### Editing:-

We are Edit the Document with the help of MS Word.

#### Application:-

With the help of MS Word we can Editing, Creating, Document with the help of images and spelling and grammar checking.

# Unit-3 Office Automation Tool - 2

## MSExcel

MS Excel is used to make spreadsheet and edit them.

#### Creating

We are with the help of MS Excel Create a Sheets as per our needs.

#### Editing

We are Edit the Spredsheet with the help of MS Excel.

#### Application

We can easily made a Spreadsheet with the help of MS Excel.

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