



Government Girls' Polytechnic, Bilaspur

Name of the Lab: **Digital Electronics Lab**

Practical: **Advanced Microprocessor & Microcontroller Lab**

Class :**VI Semester (ET&T)**

Teachers Assessment: 10 End Semester Examination: 40

EXPERIMENT NO 1

Object:-Identify different components/unit in 8086 kit.

Theory:-8086 Microprocessor

- It is a 16bit microprocessor.
- 8086 has a 20 bit address bus can access upto 2^{20} memory location(1MB).
- It can support upto 64K I/o ports.
- It provides 14, 16-bit registers.
- It has multiplexed address and data bus AD0-AD15 and A16-A19.
- It requires single phase clock with 33% duty cycle to provide internal timing.
- 8086 designed to operate in two modes, minimum mode and maximum mode.
- It can prefetch upto 6 instruction bytes from memory & queues them in order to speed up instruction execution.
- It requires +5 volt power supply.
- A 40 pin dual in line package.

KIT DIAGRAM OF 8086 MICROPROCESSOR

Microcontroller Lab Manual Vtu 4 Th Sem

A Gutmann



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