



## Department of Computer Science

### Year 2021-2022

Department of Computer Science was set up in the year June 1997. Under Graduate programs are run by the Dept. These include B.Sc. Computer Science (Optional), Bachelor of Computer Application (B.C.A.), B.Sc. Computer Science (B.C.S.), Compulsory Computer course for B.A and B.Sc.

Students admitted to under graduate courses come from socially and economically weaker sections of the society. They are found average and need special efforts to come up to the expectations of the industry and business. These students are particularly weak in Communication Skills.

There are well furnished Two software laboratories and 1 hardware laboratory with latest configuration given below:

#### Computer Lab C1 – (Total No. of PC-22)

##### Computer Configuration

Hard Disk 80GB, RAM 2GB, Motherboard Intel & AMD ,Processor (Intel 2.6 GHz), Monitor TFT 15 inch, Mouse (USB), Keyboard(USB), Dot matrix printer (LQ-300+EPSON-one), Switch D link 24 port (1).

#### Computer Lab C2 – (Total No. of PC-24)

##### Computer Configuration

Hard Disk 1 TB and 500GB, RAM 4 GB & 8 GB, Motherboard Intel & ASUS, Processor (Intel I 3), Monitor LED & TFT 15 inch, Mouse (USB), Keyboard(USB), Dot matrix printer (LQ-300+EPSON-one), Switch (D-link - 24 ports).

#### Computer Jr. Lab B – (Total No. of PC-39)

##### Computer Configuration

Hard Disk 500 GB and 160 GB, RAM 4 GB & 1 GB, Motherboard Intel & Dual-core 3.00, Processor (Intel pen 2.90 GHz), Monitor LED & TFT 15 inch, Mouse (USB), Keyboard(USB), Dot matrix printer (LQ-1150 II EPSON-one), Switch (D-link - 24 ports (2) ).

Active

PRINCIPAL

Vasant Rao Naik Mahavidyalaya

## Computer Lab C3

### Digital Electronics

1. Study of Synchronous and Asynchronous Counter using IC (02), DAC – 0800 (02), DAC-0808 (02), Study of 4-bit Binary adder and subtractor using IC 7483 (02), Study of Logic gates (02), Study of shift register using flip flop (02), Arithmetic logic unit (02), Study of EPROM (02), Multiplexer (8:1) (02), Ring Counter (02), Study of Flip flop (02), Random Access Memory (RAM) demonstrator (02), Synchronous counter (MOD-8 and 16) (02), 4-bit binary adder and subtractor (02), Demultiplexer and decoder (1:8 and 3:8) Z (02), Asynchronous Up/down counter (MOD 8,10,16) 11102 (02), A and D converter (02), Total Digital Kits - (34)

SMPS – 12 V Large [03], SMPS – 12 V Small [02], Banana pins [50], Amplifier 10.IV [08]

SMPS – 12 V Large [03], SMPS – 12 V Small [02], Banana pins [50], Amplifier 10.IV [08]

### Microprocessor and Interfacing

Interfacing of 8 bit 8 LED panel to port ABC of 8255 for binary Up/Down counter [03], Study of 7 segment display without Multiplexing [03], Study of 7 segment display without Multiplexing [03], Interfacing of D/P switches with LED indications for Port ABC [03], Study card for 8255 [03], Study card for 8251 [03], Study card for 8279 [03], Digital to Analog converter (PIO) [02], Analog to Digital converter (PIO) [02], LBDR (PIO) [02], Stepper Motor [02],

Study card for 8253 [02], Study Interfacing of 8 switches and LED panel to display the Status of switches [03], Microprocessor Dynalog Kits 8086 [01], Total Microprocessor and Interfacing [44]



Dr. Lothe S.A.

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Department of computer science is having programming laboratory and Digital Electronic laboratory.


#### **Programming Laboratories :-**

- Programming laboratory focuses on fundamental problems in programming languages.
- Programming languages are used to carry practical's such as C, C++, Java, Android, out of ASP.Net, Database programming, Design and transaction processing which discover development of software, Web-Application and Android Applications.
- During COVID-19, students are not allowed physically in Departmental Laboratories, therefore, the above practical's conducted online through ZOOM video conferencing Tool.

#### **Digital Electronic and Microprocessor Laboratories**

- Digital Electronic and Microprocessor Laboratories is used to perform the practical's related to various digital electronic kits, such as Logic Gates, Adders, Flip-Flop, Counters and Registers with demonstration of truth tables.
- Microprocessor kit specially 8085,8086 with various interfacing modules.
- The main purpose is to understand the students about Assembly Language Programming.

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Sr. No.	<u>Name of the Kit</u>	<u>Quantity</u>
1	Study of Synchronous and Asynchronous Counter using IC	2
2	DAC 0800	2
3	DAC 808	2
4	Study of 4-bit Binary adder and subtractor using IC 7483	2
5	Study of Logic gates	2
6	Study of shift register using flip flop	2
7	Arithmetic logic unit	2
8	Study of EPROM	2
9	Multiplexer (8:1)	2
10	Ring Counter	2
11	Study of Flip flop	2
12	Random Access Memory (RAM) demonstrator	2
13	Synchronous counter (MOD-8 and 16)	2
14	4-bit binary adder and subtractor	2
15	Demultiplexer and decoder (1:8 and 3:8)	2
16	Asynchronous Up / down counter (MOD 8,10,16)	2
17	A and D converter	2
	Total	34

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