

Shri Vijaysinha Yadav College, Peth Vadgaon
Department of Computer Science
Bridge Course 2025-26

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|---------------------|--------------------------------|
| Course Name: | Fundamental of Computer |
| Duration: | 5 Days |
| | Thursday 03/07/2025 - 1Hour |
| | Friday 04/07/2025 - 1Hour |
| | Saturday 05/07/2025 - 1Hour |
| | Monday 07/07/2025 - 1Hour |
| | Tuesday 08/07/2025 - 1Hour |

About Bridge Course:

Department of Computer Science conducted a 5 hours' bridge course from 03/07/2025-08/07/2025 in video mode before the commencement of regular classes. The main objective of the course is to bridge the gap between subjects studied at Pre- university level and subjects they would be studying in B.Sc. Computer Science.

Bridge Course will help the students to have a smooth transition to the courses. The Bridge Courses also focus on the pupil with different learning abilities, Basics fundamentals of computer, academic standards and performances.

Objective:

The bridge course helped students from different backgrounds understand the basics of computers. It made learning easier and gave them the confidence to use computers for simple tasks. After taking the test and attending the sessions, most students are now ready to start their main computer science subjects with a better understanding.

Methodology:

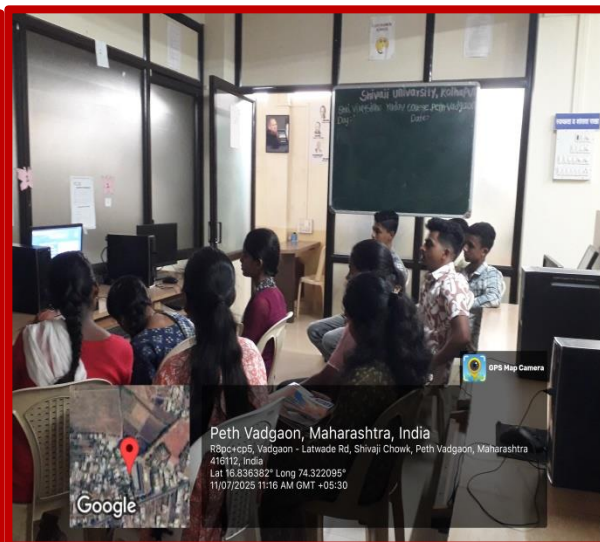
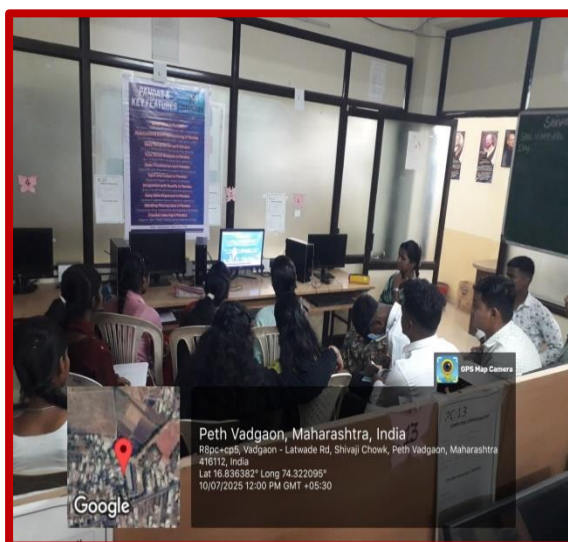
- Action plan of the bridge course is prepared well in advance by the senior faculty and get it approved by respective HOD.
- > Video Lecture, chalk and talk methods have been adopted for the theory subjects.
- Hands on training and interactive sessions are conducted for laboratory sessions.

Syllabus Covered:

| Topic | Subtopics |
|---------------------------|---|
| Introduction to Computers | What is a computer, Features, Applications |
| Hardware & Software | Input/output devices, System/Application software |

| | |
|----------------------------|---|
| Memory & Storage | RAM, ROM, Hard Drives, Pen drives |
| Operating Systems | Windows interface, File handling basics |
| Number Systems | Binary, Decimal, Conversion basics |
| Computer Languages | Types: Machine, Assembly, High-Level |
| Basic Programming Concepts | Introduction to C, Variables, Loops |
| Internet & Cyber Safety | Browsers, Email basics, Data privacy |

LECTURE



TEST:-



Nirmale
Mrs. Nirmale S.A
Head
 Department of Computer Science
 Shri. Vijaysinha Yadav College
 Peth Vadgaon, Dist. Kolhapur.

Chavan
Dr. Ashok Chavan
I/C Principal
Shri Vijaysinha Yadav College,
Peth Vadgaon, Tal. Hatkanangale,
Dist. Kolhapur.

Shir Vijaysinha Yadav College, Peth Vadgaon
Department of Computer Science 2025-26
Fundamentals of computer (Bridge Course)

| Sr. No | Date | Class | Time | Name of Faculty | Topic | No.of Students |
|---------------|-------------|---------------------|-----------------|------------------------|---|-----------------------|
| 1 | 03/07/2025 | B.Sc. Part-I | 11.45 to 12.45. | Nirmale S.A | Scope of computer science | 15 |
| 2 | 04/07/2025 | | 2.00 to 3.00 | Nirmale S.A | Computer Fundamentals, Networking Fundamentals | 12 |
| 3 | 05/07/2025 | | 10.45 to 11.45 | Nirmale S.A | Basic Programming Concepts, Programming Languages | 14 |
| 4 | 7/07/2025 | | 1.00 to 2.00 | Kshirsagar V.D | Hardware Components, Software and Operating Systems | 14 |
| 5 | 08/07/2025 | | 10.45 to 11.45 | Kshirsagar V.D | Database Concepts | 13 |

Diagnostic Test – Computer Fundamentals

Total Questions: 20

Total Marks: 20

Time Allowed: 40 minutes

Question Type: Multiple Choice & Short Answer

Pass Marks: 12/20

Section A: Multiple Choice Questions (1 Mark Each)

1. **Which of the following is an input device?**
 - a) Monitor
 - b) Printer
 - c) Keyboard
 - d) Speaker

2. **What does CPU stand for?**
 - a) Central Process Unit
 - b) Central Processing Unit
 - c) Computer Personal Unit
 - d) Central Performance Unit

3. **Which of the following is system software?**
 - a) MS Word
 - b) Google Chrome
 - c) Windows 10
 - d) Tally

4. **RAM is a type of:**
 - a) Permanent memory
 - b) Temporary memory
 - c) Optical memory
 - d) Virtual memory

5. **Which language is directly understood by the computer?**
 - a) Python
 - b) Assembly
 - c) Machine Language
 - d) Java

6. **Which unit performs calculations in a computer?**
 - a) Control Unit
 - b) Arithmetic Logic Unit
 - c) Input Unit
 - d) Memory Unit

7. **Which of the following is not a programming language?**
- a) HTML
 - b) Java
 - c) C++
 - d) Python
8. **Which of the following stores data permanently?**
- a) RAM
 - b) ROM
 - c) Hard Drive
 - d) Cache
9. **A byte is made up of:**
- a) 2 bits
 - b) 4 bits
 - c) 8 bits
 - d) 16 bits
10. **What is the full form of GUI?**
- a) Graphical User Interface
 - b) General Utility Interface
 - c) Graphical Uniform Interface
 - d) Graphical User Input

Section B: Short Answer Questions (2 Marks Each)

11. **What is software? Give two examples.**
12. **What is the difference between hardware and software?**
13. **Name two output devices.**
14. **What is an operating system?**
15. **List two advantages of computers.**

Diagnostic Test – Computer Fundamentals

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Section A: Multiple Choice Questions (1 Mark Each)

11. **Which of the following is an input device?**
 - a) Monitor
 - b) Printer
 - c) Keyboard
 - d) Speaker✓**Answer:** c) Keyboard
12. **What does CPU stand for?**
 - a) Central Process Unit
 - b) Central Processing Unit
 - c) Computer Personal Unit
 - d) Central Performance Unit✓**Answer:** b) Central Processing Unit
13. **Which of the following is system software?**
 - a) MS Word
 - b) Google Chrome
 - c) Windows 10
 - d) Tally✓**Answer:** c) Windows 10
14. **RAM is a type of:**
 - a) Permanent memory
 - b) Temporary memory
 - c) Optical memory
 - d) Virtual memory✓**Answer:** b) Temporary memory
15. **Which language is directly understood by the computer?**
 - a) Python
 - b) Assembly
 - c) Machine Language
 - d) Java✓**Answer:** c) Machine Language
16. **Which unit performs calculations in a computer?**
 - a) Control Unit
 - b) Arithmetic Logic Unit
 - c) Input Unit
 - d) Memory Unit✓**Answer:** b) Arithmetic Logic Unit

17. **Which of the following is not a programming language?**

- a) HTML
- b) Java
- c) C++
- d) Python

✓**Answer:** a) HTML (*It's a markup language*)

18. **Which of the following stores data permanently?**

- a) RAM
- b) ROM
- c) Hard Drive
- d) Cache

✓**Answer:** c) Hard Drive

19. **A byte is made up of:**

- a) 2 bits
- b) 4 bits
- c) 8 bits
- d) 16 bits

✓**Answer:** c) 8 bits

20. **What is the full form of GUI?**

- a) Graphical User Interface
- b) General Utility Interface
- c) Graphical Uniform Interface
- d) Graphical User Input

✓**Answer:** a) Graphical User Interface

Section B: Short Answer Questions (2 Marks Each)

13. **What is software? Give two examples.**

✓**Answer:** Software is a set of instructions that tells the computer what to do.

Examples: MS Word, Windows 10

14. **What is the difference between hardware and software?**

✓**Answer:**

- Hardware: Physical components of a computer (e.g., CPU, mouse)
- Software: Programs/instructions used by the hardware (e.g., MS Office)

16. **Name two output devices.**

✓**Answer:** Monitor, Printer

17. **What is an operating system?**

✓**Answer:** An operating system is system software that manages hardware, software, and other resources of the computer.

Example: Windows, Linux

18. **List two advantages of computers.**

✓**Answer:**

- High speed and accuracy
- Storage and automation of repetitive task

Shri Vijaysinha Yadav College, Peth Vadgaon

Department of Computer Science

Bridge Course 2025-26

Mark list

| Sr.no | Name of Student | Marks |
|--------------|------------------------|--------------|
| 1 | Chandana Sukumar Sid | 20 |
| 2 | Sanika Popat Vadar | 20 |
| 3 | Shrutika Kisan Vadd | 19 |
| 4 | Rutuja Tukaram Hanbar | 19 |
| 5 | Pooja Vilas Hajare | 20 |
| 6 | Snehal Sachin Londhe | 20 |
| 7 | Namrata Suresh Sutar | 18 |
| 8 | Krushna Ganpat Patil | 16 |
| 9 | Pranav Mohan danane | 19 |
| 10 | Shivam Manshing Patil | 18 |
| 11 | Yash Kuber Kanahatti | 18 |
| 12 | Vinit D.Mali | 19 |
| 13 | Viraj P.Ingavle | 19 |
| 14 | Shreyash Babar | 19 |

Shir Vijaysinha Yadav College, Peth Vadgaon

Department of Computer Science

2025-26

Fundamentals of computer (Bridge Course)

| Sr. no | Name of Student | 03/07/2025 | 04/07/2025 | 05/07/2025 | 07/07/2025 | 08/07/2025 |
|--------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1) | Chandana S. Sid | <u>Csid</u> | <u>Csid</u> | <u>Csid</u> | <u>Csid</u> | <u>Csid</u> |
| 2) | Sanika P. Vadaz | S.P. Vadaz | S.P. vadaz | S.P. vadaz | S.P. vadaz | S.P. vadaz |
| 3) | shrutika. K. vadd | <u>Sid</u> | <u>Sid</u> | <u>Sid</u> | <u>Sid</u> | <u>Sid</u> |
| 4) | Rutuja T Hanbar | <u>Phanbar</u> | <u>Phanbar</u> | <u>Phanbar</u> | <u>Phanbar</u> | <u>Phanbar</u> |
| 5) | Pooja V. Hajare | <u>Phajare</u> | <u>Phajare</u> | <u>Phajare</u> | <u>Phajare</u> | <u>Phajare</u> |
| 6) | snehal. S. lonche | <u>slonche</u> | <u>slonche</u> | <u>slonche</u> | <u>slonche</u> | <u>slonche</u> |
| 7) | Namrata S. Sutar | <u>N.S. Sutar.</u> | <u>N.S. Sutar.</u> | <u>N.S. Sutar.</u> | <u>N.S. Sutar.</u> | <u>N.S. Sutar.</u> |
| 8) | Krushna G. Patil | <u>Patil.</u> | <u>Patil.</u> | <u>Patil.</u> | <u>Patil.</u> | <u>Patil.</u> |
| 9) | Pranav M. Dhanu | <u>PA</u> | <u>PA</u> | <u>PA</u> | <u>PA</u> | <u>PA</u> |
| 10) | shivam M. Patil | <u>Patil</u> | <u>Patil</u> | <u>Patil</u> | <u>Patil</u> | <u>Patil</u> |
| 11) | Yash K. Kanahatti | <u>Yash</u> | <u>Yash</u> | <u>Yash</u> | <u>Yash</u> | <u>Yash</u> |
| 12) | Vinit D. Mali | <u>vmali</u> | <u>vmali</u> | <u>vmali</u> | <u>vmali</u> | <u>vmali</u> |
| 13) | Viraj P. Ingavale | <u>Viraj</u> | <u>Viraj</u> | <u>Viraj</u> | <u>Viraj</u> | <u>Viraj</u> |
| 14) | Shreyash Babar | <u>SSBabar</u> | <u>SSBabar</u> | <u>SSBabar</u> | <u>SSBabar</u> | <u>SSBabar</u> |
| | | | | | | |
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| | | | | | | |
| | | | | | | |

Name - Pooja Vilas Hajare
BSc I

Diagnostic Test – Computer Fundamentals

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Section B: Short Answer Questions (2 Marks Each)

11. What is software? Give two examples.

→ Software is a set of instructⁿ tells computer what to do
examples - M.S. Word, Android,

12. What is the difference between hardware and software?

- 1] hardware are physical component of computer → eg. keyboard
- 2] Softwares are internal memory storage. instruction used by hardware component of computer.

13. Name two output devices.

- 1] Monitor 2] Speaker
3] Printer

14. What is an operating system?

→ Operating system are which manage hardware & software & help us to calculatⁿ or arithmetic logic unit for example - Windows, mac-os, linux.

15. List two advantages of computers.

- 1] Easy & fast work than mankind
2] Less errors