

**GOVERNMENT DEGREE COLLEGE, KOLLAPUR**  
**CERTIFICATE COURSE - DEPARTMENT OF PHYSICS**  
**SYLLABUS FOR**  
**PC Hardware & Networking**  
**Course Duration – 32 hours**

**ALLOCATION OF TOTAL HOURS FOR EACH CHAPTER:**

| Sl No Chapter Theory in                       | Hours     | Practical in Hours |
|---|-----------|--------------------|
| 1. Introduction about computer                | 2         | 3                  |
| 2. Basic Networking concepts                  | 2         | 3                  |
| 3. Introduction to various networking devices | 2         | 4                  |
| 4. Inside the PC                              | 3         | 5                  |
| 5. Network basic and configuration            | 3         | 5                  |
|   | <b>12</b> | <b>20</b>          |

**DETAILED SYLLABUS**

**1. Introduction about Computer:**

- 1.1. Basics of computer
- 1.2. Organization of computer.
- 1.3. Software and hardware.
- 1.4. Input/output devices.

**2. Basic networking concepts:**

- 2.1 Network topologies:
  - 2.1.1 LAN, WAN, MAN, PAN, CAN.
- 2.2 Networking Model
  - 2.2.1. The OSI model
  - 2.2.2. TCP/ IP Model
- 2.3 Network adapters.
- 2.4 Introducing protocols.
- 2.5 Cabling and troubleshooting.

**3. Introduction to various networking devices:**

- 3.1. Routers.
- 3.2. Switches.
- 3.3. Modems.
- 3.4. Hubs etc.
- 3.5. Wired and Wireless technology.

**4. Inside the PC:**

- 4.1. Opening the PC and identification.
- 4.2. Study of different blocks,
- 4.3. Assembling and disassembling.

**5. Network basic and configuration:**

- 5.1. Setting IP addresses,
- 5.2. Sharing files and folders.
- 5.3. Network troubleshooting.
- 5.4. PING test, IP config etc.



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The whole course will be conducted 7:00 hours and give time of 10:00 hours and the remaining dates for the course 11-01-2024 to 20-04-2024

Hope I am requesting you to please me to conduct a certificate course

Thanking you Sir

Yours sincerely,

*(Signature)*

M. S. S. Kumar  
 Lect in Physics

Attendance Log

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|---|---|---|---|---|---|---|---|---|----|----|----|
| 1 M. Pavanesh<br>210330174681006       | P | P | P | P | P | P | P | P | P | P  | P  | P  |
| 2 T. Jaya kishna<br>210330174681011    | P | P | P | P | P | P | P | P | P | P  | P  | P  |
| 3 M. Nagaraju<br>210330174451006       | P | P | P | P | P | P | P | P | P | P  | P  | P  |
| 4) P. Vamshi<br>210330174451017        | P | P | P | P | P | P | P | P | P | P  | P  | P  |
| 5 p. suresh kumar<br>210330174451016   | P | P | P | P | P | P | P | P | P | P  | P  | P  |
| 6) K. shiva shankar<br>210330174451006 | P | P | P | P | P | P | P | P | P | P  | P  | P  |

Certificate course

| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |

Report

All the 6 members are successfully completed computer Hard work & networking certificate course with this they can troubleshoot the minor problems in computer and establish computer networking. with this knowledge they can sustain in the market by serving to the people.

In our college these 6 members established a network so in our college with these all computers in our college has a facility of internet which is very useful to our students.

*[Signature]*



# GOVT. DEGREE COLLEGE - 3017

( Affiliated to Palamuru University )

KOLLAPUR - 509102

Accredited by NAAC with "C" Grade



ISO 9001-2015



## CERTIFICATE OF COURSE COMPLETION



This is to certify that Mr / Miss M. Paramesh  
 s/o/d/o Pentaiyah Hall ticket No. 210330174681006  
 of B.Sc (M.P.CS) Participated in Computer Hardware & Networking  
 a certificate course organized by the Department of Physics  
 from ..... to ..... and he / she successfully completed.

CONVENER

PRINCIPAL

Govt Degree College  
Kollapur, Nagarkurnool Dist