



# DRAVID OPEN SECONDARY AND HIGHER SECONDARY EDUCATION COUNCIL

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## SYLLABUS COMPUTER

### Unit 1: Networking

- Basics of Internet and its history
- How to connect to the Internet: dial-up, broadband, wireless
- Key web technologies:
  - World Wide Web (WWW), web pages, websites, web browsers
  - Web servers and clients
  - URLs / web addresses
- Internet protocols: TCP/IP, HTTP, HTTPS, SMTP, POP3 etc.
- File transfer and remote login protocols: FTP, SFTP, SSH, TELNET, SCP etc.
- Services on Internet: search engines, e-mail, chat, video conferencing, e-banking, e-commerce etc.
- Mobile technologies: SMS, MMS, 3G/4G etc.

### Unit 2: HTML

Introduction to HTML: creating and saving HTML documents, viewing via browser

- Basic HTML tags & attributes:
  - \* Headings, paragraphs, line breaks, horizontal rules
  - \* Text format tags: bold, italics, underline, font attributes
- Lists: ordered list, unordered list, nested lists
- Images: inserting images, attributes like src, width, height, alt
- Hyperlinks / anchors & mailto links
- Tables: table, tr, th, td, rowspan, colspan
- HTML forms: input types (text box, radio, checkbox, password), list, combo box etc.
- Embedding audio & video in HTML pages

### Unit 3: Cyber Ethics

- Safe browsing: identity protection, use of passwords, privacy & confidentiality
- Cyber safety issues: cyber bullying, cyber stalking, online scams etc.
- Malware: viruses, adware etc., prevention & removal

- Ethical use of internet & intellectual property rights etc

### **Practicals / Lab Work**

- Students will perform hands-on tasks related to networking and HTML, such as:
- Creating simple web pages using HTML tags, images, tables, forms etc.
- Using appropriate software tools / editors for HTML.
- Working on exercises / projects that enforce cyber safety practices.
- Viva voce on topics.

