**ECOECIS Computer Science Terminal Plan**

**Khiarahani-8, Chitwan**

**Subject: Computer Science Terminal: 1st Terminal (60/2 days) Class: 8**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** |
| 1 | Understanding computer | * Providing knowledge about fundamentals of computer * Advantages and disadvantages of computer * Features of computer * Areas and importance of computer | * What is computer? * What is IPO System? * What are the basic function of computer? * What are the advantages and disadvantages of computer? * What are the importance of computer in education, business and office area? |
| 2 | Computer history | * Information about Evolution of different devices and its inventors. * The way the devices used to and will perform * Types of computer evolution | * Device and developer name. * History of computer in Nepal. * Reasonable questions like: * Who is known as father of computer? Why? * Who is known as first lady programmer? What is the name of the program? |
| 3 | Generation of computer | * Information about five generations and its main features | * Generation of computer with four or two features. |
| 4 | Computer Hardware and software | * About hardware and its types * About software and its types | * What is hardware? * What is software? * What are type of hardware? * What are the types of software? * What is language translator? Explain the types of language translator. |
| 5 | Microsoft Office Word | * Installation process * File tabs, Home tabs, insert tabs, page layout tabs, Printing file | * Shortcut keys used in Ms Office and its function |

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**Subject: Computer Terminal: 2nd Terminal (55/2 days) Class: 8**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** |
| 1 | Operating system | * Introduction to OS and its functions * Types of operating system * Difference between GUI and CUI Operating system | * What is an OS? Write its functions * What are the types of OS and describe them. * Write down the difference between CUI and GUI Operating system |
| 2 | Microsoft Excel | * Introduction to MS- Excel * Editing data * Introducing tabs present in Excel * Use of formula, chart | * What is Excel or Spreadsheet software? * Mention its features. * What is cell? * What is cell reference? * Functions of Basic formula used in Excel |
| 3 | Number system | * Conversion of binary into decimal and vice versa | * Conversion |
| 4 | Multimedia and Its uses | * Introduction to multimedia * Elements of Multimedia * Multimedia system * Requirement for Multimedia system * Some multimedia tools | * What is multimedia? Write the elements of it. * What are use of multimedia in Education and business? * What are the requirement for multimedia? * What are the advantages and disadvantages of multimedia? * What is multimedia system? * What are the requirement for multimedia system? |

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**Subject: Computer Terminal: 3rd Terminal (46/2days) Class: 8**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** |
| 1 | ICT Tools and Cyber Ethics | * Introduction to ICT and Cyber ethics * Cybercrime and its example * Commandments | * Introduction to ICT and Cyber ethics * Commandments * Cyber law and Cyber crime |
| 2 | Computer Virus | * Introduction to virus * Types of virus * Effects of virus * Symptoms of virus * Preventive measure * Media through virus gets transferred * Introduction to antivirus * Functions of antivirus | * What is virus? * What are the symptoms of virus? * Writes its Preventive measures? * Explain the types of virus. * What is antivirus? Mention its function |
| 3 | Computer Network and internet | * Network definition and its advantages and importance * Types of network * Types of Topologies and its advantages and disadvantages * Introduction to internet and its keyword used in internet | * What is network? Mention its importance. * What is Client server network? * What are nodes, server, client, terminal, peer? * What is bus topology? Mention its advantages and disadvantages? * What is internet? Mention its importance and uses |
| 4 | Power Point Presentation | * Introduction to presentation software * Advantages and features of Presentation software * Tabs uses * Inserting different types of Multimedia components * Slide show, animation and transitions | Features of PowerPoint.  What is slides?  What are transition?  What is animation?  And some common shortcut keys and function. |
| 5 | HTML | * Introduction to HTML and its tags and attributes * Implementation of tags * Creating HTML code * Inserting tables * Inserting others multimedia components | * What is HTML? Who is the developer of HTML scripting language? * What are tags and attributes * Tags and its functions |

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**Khiarahani-8, Chitwan**

**Subject: Computer Terminal: Final Terminal (47/2 days) Class: 8**

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| **S.no** | **UNIT** | **Lesson** | **Objective** | **Possible Questions** |
| 1 | 5 | Algorithm and Flowchart | * Understanding about the algorithm and creating algorithm to solve any problem * Understanding Flowchart and its shapes and to draw flowchart of an algorithm | * What is algorithm? What are the character for a good algorithm? * Write an algorithm to check if the given number is even or not? * Write an algorithm to check if the given number is even or not? * Write an algorithm to find the greatest among 4 numbers input by user. |
| 2 | 5 | QBASIC programming | * Understanding Qbasic programming and its features * Understanding basic elements of it * Understanding Basic code used to input and print values * Understanding concept of conditional statements. * Understanding the concept of looping statement | * Who is the developer of Qbasic Programming language? * Write a program to sum two numbers. * WAP to find the average of five marks input by user. * WAP to check if the given number is even or not? * WAP to check if the given number is positive or negative. * WAP to print series. * WAP to print the pattern * WAP to reverse a number |