**ECOECIS Subject Terminal Plan**

**Khiarahani-8, Chitwan**

**F.M:50, P.M: 18**

**Subject: Computer Science Terminal: 1st Terminal (60days) Class: 10**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** | **Teaching Materials** |
| **1** | **1(Computer Networking and Communication)** | **Introduction to Computer Networking and Communication tools and software.**  **How networks are found as per geographical will be explained.**  **Different types of topologies and network model used in networking** | **What is data communication?**  **What is BUS Topology?**  **Mention the advantages and disadvantages of Network Model.**  **Networking hardware and software tools.** | **Networking hardware will be shown** |
| **2** | **3(Computer Security)** | **Introduction to Computer Security**  **Introduction of different types of hardware and software security**  **Explaining about the hardware tools and software tools.** | **Tools used as Hardware security**  **Tools used as Software Security** | **Hardware security device will be shown** |
| **3** | **4(E- commerce)** | **Introduction to E- commerce**  **Introduction to M-commerce**  **Introducing the Online payment methods.** | **What is Ecommerce?**  **What is M-commerce?**  **What is online payment?** | **Daily teaching tools** |

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**Subject Teacher Head of Secondary Level Head Teacher**

**ECOECIS Subject Terminal Plan**

**Khiarahani-8, Chitwan**

**F.M:50, P.M: 18**

**Subject: Computer Science Terminal: 2nd Terminal (55 days) Class: 10**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** | **Teaching Materials** |
| **1** | **5(Contemporary technology)** | **Contemporary technology** | **Definition of :**  **AI**  **VR**  **IOT**  **E-governance**  **What are the advantages and disadvantages of E-governance?**  **What is cloud Computing?** | **Online Videos** |
| **2** | **2(Ethical and Social issues in ICT)** | **Ethical and Social issues in ICT** | **What is ICT?**  **What is cyber ethics?**  **When was cyber law introduced in Nepal?**  **What is cybercrime?**  **Who are known as cybercriminal?** | **Daily tools** |
| **3** | **7(Database management system)** | **Introducing Database management system both in practical way and theoretical way. Creating table, assigning data type to a field name, creating forms and report and collection information using query.** | **What is DB?**  **Who is DBA?**  **What are the objects of DBMS?**  **What is DBMS?**  **What is relational DBMS? Advantages and disadvantages.**  **Sizes of data types.** | **Live demonstration of creating and manipulating DB using MS ACCESS.** |
| **4** | **6(Number System)** | **Introducing Number System**  **Conversion of Binary number system in to decimal, hexadecimal and octal Number system.** | **Conversion of number** | **Daily teaching tools** |

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**Subject Teacher Head of Secondary Level Head Teacher**

**ECOECIS Subject Terminal Plan**

**Khiarahani-8, Chitwan**

**F.M:50, P.M: 18**

**Subject: Computer Science Terminal: 3rd Terminal (46 days ) Class: 10**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** | **Teaching Materials** |
| **1** | **8 ( control statement and library function)** | **Introduction to Library Functions and its uses** | **What is the function of:**  **MID$()**  **LEN()**  **UCASE()**  **LCASE()**  **RTRIM()**  **LTRIM()** | **Daily materials** |
| **2** | **9( Modular programming)** | **Introduction to Sub Procedure**  **Introduction to Function Procedure**  **How to write programs in sub procedure**  **How to write programs in Function procedure** | **WAP in Sub Procedure to calculate simple interest.**  **WAP in Function procedure to calculate sum of digit of a number**  **etc** | **Daily material** |
| **3** | **10 (File Handling)** | **Introduction to file handling.**  **Creating file to input data**  **Reading the data from the existing file and printing it.**  **And in some cases printing data from file as per given condition.** | **WAP to create a file to store student record**  **WAP to display the record of employee who are working in labor department.** | **Daily materials** |

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**Subject Teacher Head of Secondary Level Head Teacher**

**ECOECIS Subject Terminal Plan**

**Khiarahani-8, Chitwan**

**F.M:50, P.M: 18**

**Subject: Computer Science Terminal: 4th Terminal (47 days) Class: 10**

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| **S.no** | **Lesson** | **Objective** | **Possible Questions** | **Teaching Materials** |
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| **2** | **11( c programming)** | **Introduction to :**  **C programming**  **Advantages and disadvantages of it**  **Basic elements**  **Operators and basic input and output functions**  **Basic conditional statements** | **WAP in c to calculate simple interest.**  **WAP in c to check if the given number is even or not.**  **WAP in c to check if the given number is positive or negative** | **Daily material** |

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**Subject Teacher Head of Secondary Level Head Teacher**