Department of Computer Sc. & Engg, Govt. Engg. College – Thrissur
SEMINAR PROPOSAL for approval
2022-2023 ODD

1. **Name of the student:** Gokul P Dinesh
2. **Uni. Reg. No:** TCR19CS029 **Programme:** B.Tech. CSE(2019rev) **Batch:** 2019 Adm.
3. **Guided by:** Prof. Dileeshh E D
4. **Broad area:** Linux Kernel
5. **Sub area:** Windows Subsystem For Linux
6. **Seminar Title:** Implementation of Windows Subsystem For Linux
7. **Objectives of seminar:**
   - **O1:** To identify the problem of incompatibility of running Linux applications in Windows
   - **O2:** To understand the inner working of Windows Subsystem for Linux, buy referring academic documents
   - **O3:** To get familiarized with WSL Architecture
   - **O4:** To understand the underline theory behind VMs and their correlation with WSL
   - **O5:** To familiarize with the technical documents, and presentation
8. **Important information about seminar** Score off the unwanted choices in each group OR fill in the information in blank portions

Idea context: Survey/study Business case study {Implementation case study}	{PURE Theory}] {Application of theory} {Design Case study} Education/Training/	
Source of Idea:	{Student} Guide BOTH	
Content of seminar: New variant of a core published work	Re-telling a published work New publishable Idea	

9. **Related works:**

   (a) WSL Documentation:

   This reference will allow us to set up WSL and explore more about the technology

   (b) The Linux Kernel Library:

   The Linux kernel library is an integral part of the Linux OS, and it's working is explained in this document

   (c) Memory Forensics of WSL:

   This delves deep into the memory management architecture of WSL.

10. **Content of seminar:**

    The seminar will be about the architecture of WSL, Windows Subsystem for Linux, and how it is implemented in Windows. It also delves into how it uses a virtual network connection to connect a virtual machine (Linux) to remotely access Windows

11. **Abstract finalised:**

    To learn and understand the inner working and architecture of Subsystems in Windows and its implementation. The seminar also delves into how the Windows NT kernel and how it supports systems

12. **Table of contents:**

    Include the Table of contents to appear in your Draft Seminar report, as an enumeration list

13. **Result of plagiarism check:**

    The seminar is mainly based on the Developer Blogs from Microsoft themselves. The contents of the seminar are also referred to from the references cited below. The seminar is 50% unique from the source materials

14. **Scheduled date of presentation:**

    October 20, 2022

15. **Facilities to be provided by department:**

    Proper internet connection

16. **References:**

[1] Nathan Lewis, Andrew Case, Aisha Ali-Gombe, and Golden G. Richard. Memory forensics and the windows subsystem for linux. *Digital Investigation*, 26:S3–S11, 2018.

[2] John Ingve Olsen. Through the wormhole: Cross-os desktop integration for linux applications. *Master thesis, University of Oslo, 2022*, 2022.

[3] Octavian Purdila, Lucian Adrian Grijincu, and Nicolae Tapus. Lkl: The linux kernel library. In *9th RoEduNet IEEE International Conference*, pages 328–333, 2010.

17. **Approval note of Guide:**

Date of approval: October 26, 2022

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Note:- Use these e-mail ids for communication. Communication send to any other address is invalid or is not part of seminar correspondence.