Birla Institute of Technology & Science, Pilani Work Integrated Learning Programmes Division First / Second Semester 2024-2025

Assignment: Assessing Open-Source Project Security using OpenSSF Scorecard

Course: Open-Source Software Engineering

Marks: 10

Due Date: 17-August-2025

Submission Mode: PDF report upload on LMS

6 Objective:

To understand and evaluate the security health of open-source projects using **OpenSSF Scorecard** by uploading and analyzing a project on https://scorecard.dev.

Q Task Overview:

1. Choose an Open-Source Project:

- Select any open-source GitHub repository (either your own project or a public one).
- o The project must have a public GitHub URL.

2. Upload and Analyze:

- o Go to https://scorecard.dev.
- o Enter the repository URL in the **search bar**.
- Wait for the analysis to complete and review the security scores and checks.

3. Create a Report:

o Prepare a report (2–3 pages) covering the following:

Report Guidelines:

Your report must include the following sections:

1. Project Details (1 mark)

- Name of the project
- GitHub URL
- Brief description (2–3 lines)

2. Scorecard Summary (2 marks)

- Overall Scorecard Score (out of 10)
- · List the individual checks and their results
- Highlight which checks passed and which failed

3. Security Analysis (3 marks)

- Discuss **at least 3 important checks** (e.g., Dependency Update Tool, Signed Releases, Branch Protection, etc.)
- Explain their relevance to project security
- Mention how your project performed on each

4. Improvement Suggestions (2 marks)

• Based on failed or low-score checks, suggest **2–3 ways to improve** the project's security posture

5. Reflection (1 mark)

• In 3–4 sentences, explain what you learned from using Scorecard and how it can help in real-world open-source development