DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

PROJECTPROPOSAL

1. Project Title: - Finger Vein Recognition System using Maximum curvature Points

2. Project Scope: -

In our project, we are developing a sophisticated software interface that harnesses the potential of finger vein recognition for robust biometric authentication. By implementing the innovative Maximum Curvature Point method, we aim to extract intricate vein patterns from individuals, ensuring an unprecedented level of security. Our focus lies in refining the core mathematical framework of this technique, thereby enhancing its accuracy and efficacy. This approach empowers us to delve into the realm of intricate vascular patterns, impervious to replication. As we manipulate the intrinsic variables within the Maximum Curvature Point algorithm, we anticipate achieving heightened distinction in vein-pattern extraction.

3. Requirements: -

- Hardware Requirements
  1. Working Windows system with ram > 8gb
  2. Java Complier
  3. Camera or any scanner to scan finger veins
- Software Requirements
  1. MATLAB
  2. Dev Environment
  3. Python

STUDENTS DETAILS

Name	UID	Signature
Abhishek Mishra	20BCS3642	
Tolesh Pathak	20BCS3521	
Abhay Tomer	20BCS3566	

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Signature (With Date)