

SUKKUR IBA UNIVERSITY

Department of Computer Science

**BusMate Mobile Application
User Manual**

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1. Introduction

BusMate is a mobile application developed to facilitate university students in tracking buses, viewing schedules, and managing transportation efficiently. The application provides real-time bus tracking, notifications, and an intuitive interface for users.

2. System Requirements

- Android 8.0 (Oreo) or higher
- Internet connection
- Minimum 2GB RAM
- 100MB free storage

3. Installation Guide

1. Download the BusMate APK file from the official university website or Google Drive link.
2. Enable 'Install from Unknown Sources' in device settings.
3. Tap on the downloaded file to install the app.
4. Launch the app after installation.

4. Application Overview

The application consists of two primary user interfaces:

1. **Student Module:** Allows users to register, log in, view bus locations, timings, and receive alerts.
2. **Admin Module:** Enables administrators to add, update, or delete bus details, manage routes, and send notifications.

5. User Roles

Student: Can view bus routes, track buses, and receive notifications.

Admin: Can update route information, manage buses, and monitor usage.

6. Functional Modules

1. Login & Registration
2. Real-Time Bus Tracking
3. Route Management
4. Notifications & Alerts
5. User Profile Management
6. Admin Dashboard

7. Step-by-Step App Operation

Step 1: Open the BusMate app.

Step 2: Register with your university ID and password.

Step 3: Log in to access your dashboard.

Step 4: Tap 'Track Bus' to view real-time location.

Step 5: View route and timing information.

Step 6: Use the notification tab for important alerts.

Screenshot Placeholder: (Insert images of Login Screen, Dashboard, Map View, Notification Screen)

8. Troubleshooting

- If the app does not open, ensure permissions are granted.
- If location is not updating, check GPS settings.
- For login errors, confirm your credentials and internet connection.

9. Contact Information

For assistance or technical support, contact:

Email: support@iba-suk.edu.pk

Phone: +92-71-5644000

Address: Sukkur IBA University, Airport Road, Sukkur, Sindh, Pakistan.