SARDAR PATEL UNIVERSITY  
Programme: MSC (Information Technology)  
Semester: III  
Syllabus with effect from: June 2010

<table>
<thead>
<tr>
<th>Paper Code: PS03EINT04</th>
<th>Total Credits: 4</th>
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<tbody>
<tr>
<td>Title Of Paper: Mobile Application Development Using Android and Windev</td>
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<tr>
<th>Unit</th>
<th>Description in detail</th>
<th>Weightage (%)</th>
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</table>
| 1    | **Introduction to Android:**  
Introduction to Android, Standard development environment for Android applications, Installing Android,  
Creating Hello World and running application on Emulator  
Android Architectural Overview and Android Development Framework  
Introduction to Android tools  
Structure of Android application  
Components of Android | 18 % |
| 2    | **Introduction to Activities and User Interface Design:**  
Introduction to activity, Activity lifecycle phases, Introducing Toast,  
Introduction to Views and layouts and Common UI components,  
Input and Selection components, Adapters  
Menus and Dialogs  
Working with Intents  
Types of Resources | 16 % |
| 3    | **Introduction to Content Provider and Sqlite Database:**  
File systems, Persistent storage in Android, Android databases,  
Storing and retrieving data, Content provider Classes | 16 % |
| 4    | **Introduction to WinDev:**  
Introduction to WinDev Mobile versions  
Features of WinDev Mobile  
Types of mobile application in WinDev Mobile  
Introduction to WinDev Mobile IDE  
Using WinDev Mobile for Android application development | 18 % |
| 5    | **Introduction to development Language (WLanguage):**  
Introduction to WLanguage, Declaring and using variables,  
Data Types, Types of Operators, Conditional statements,  
Iterative Statements, Introduction to OOP concepts | 16 % |
| 6    | **Introduction to Database in WinDev Mobile:**  
Introduction to database in WinDev Mobile, Inserting a record in to database,  
Deleting a record in to database, Updating a record in to database,  
Design Sample Application | 16 % |

Basic Text & Reference Books:

Programmer to Programmer  