



Type of course: Core

Prerequisite: Java programming, HTML, CSS, JavaScript

Rationale: Windows Mobile Application development is becoming need of the day as webpage development was about ten years ago. Most companies are developing their mobile applications so that customers may interact with them on mobiles itself. This course covers the basics of Windows 8 Applications along with required programming codes like HTML5 and multi-page applications for developing necessary programming skills for mobile applications. Thus this course is an important course for Software Development students with possibilities of self-employment.

Teaching and Examination Scheme:

Teaching Scheme			Credit	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA(M)	ESE (V)	PA(I)		
0	0	2	2	0	0	30	20	50

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

Practical List:

Sr. No.	Practical / Hands on Exercise	Hrs.
1	Installation of J2ME and working with J2ME features like cut, copy, paste, delete, select all, unselect all.	2
2	Create an MIDP application which examines that a phone number which a user has entered is valid or not.	2
3	Create a slide show which has three slides, which includes only text. Program should change to the new slide after 5 seconds. After the third slide, program should returns to the first slide.	2
4	Create a slide show which has three slides, which includes only image. Program should change to the new slide after 5 seconds. After the third slide, program should returns to the first slide.	2
5	Create an MIDP application which show to the user 10 quiz questions. All questions have 4 possible options and one right option exactly. Application counts and shows to the user how many right answers and show them to user.	2
6	Development of networked applications using the wireless toolkit. a. Create a simple Client-Server Application. b. Create the datagram server project.	4
7	Development of application using Authentication with a webserver. a. Write a simple program which shows how to make SOCKET connection from J2ME phone. b. Login to HTTP Server from a J2ME phone.	4
8	Study Windows API's. Find out their relationship with MFC classes. Appreciate how they are helpful in finding complexities of windows programming.	2
9	Create a Web Application using J2ME for the enquiry of student's marks.	4
10	Create a Web Application using J2ME for update of sports events.	4



Total	28
--------------	-----------

Reference Books:

1. Beginning Windows 8 Application Development XAML Edition, Kyle Burns, Apress
2. Beginning Windows 8 Application Development, David Fulop & Istvan Novak, Wrox
3. PROFESSIONAL WINDOWS 8 PROGRAMMING: APPLICATION DEVELOPMENT WITH C# AND XAML, NICK LECRENSKI and DOUG HOLLAND, Wiley

Suggested Specification table with Marks (Theory): (For BVOC only)

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	20	20	0	0	0

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Course Outcomes:

Sr. No.	CO Statement	Marks % Weightage
CO-1	Understand the architecture of Windows 8	20
CO-2	Learn Windows 8 style applications with HTML 5, CSS and JavaScript	20
CO-3	Understand XAML Controls for Windows 8.	20
CO-4	Develop multipage applications	20
CO-5	Understand the concept of Windows Store.	20

List of Open Source Software/learning website :

Students must refer to following sites to enhance their learning ability.

- <https://www.dotnettricks.com/learn/cswinapps>
- <https://www.construct.net/en/tutorials?difficulty=0&orderID=&content=&flang=1>
- <http://windowsapptutorials.com/>