

SHRIMATI INDIRA GANDHI COLLEGE

Post Box No.369, Near Chatram Bus Stand

Tiruchirappalli - 620 002

Ph : 0431 - 2701453

Nationally Accredited at "A" Grade (3rd cycle) by NAAC



WORK DONE and ASSESSMENT RECORD for EVEN SEMESTER 2022 - 2023

Name of the Staff : Ms. R. INDRA

Department : COMPUTER SCIENCE

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EVEN SEMESTER (2022 - 2023)

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WORK LOAD

EVEN SEMESTER (2022 - 2023)

THEORY:

S.No	Year	Programme	Course Code	Title of the Course	Hours Allotted
1.	BCA <u>III</u>	BCA	16SMBECA 2:3	MOBILE COMPUTING	4
2.	I	M.Sc COMPUTER SCIENCE	P22CS CC2B	MOBILE APPLICATION DEVELOPMENT	5
				TOTAL	9
		<u>PRACTICAL LAB:</u>			
3.	<u>III</u>	BCA	16SMBECA 2P	DOT NET LAB	6
4.	I	M.Sc COMPUTER SCIENCE	P22CS CC2BP	MOBILE APPLICATION DEVELOPMENT LAB	3
				TOTAL	9
				TOTAL : 9+9	18

R. Adhikari

Signature of the Staff

A. K. R. Sharma

Signature of the HoD

TIMETABLE

EVEN SEMESTER (2022 - 2023)

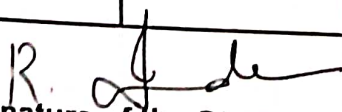
Day Order / Hour	I	II	III	IV	V
I	I M.Sc CS MOBILE APP-DEV	III BCA MOBILE COMPUTING			DOT NET LAB III BCA
II	III BCA MOBILE COMPUTING		III BCA MOBILE COMPUTING		
III		I M.Sc CS MOBILE APP-DEV		DOT NET LAB III BCA	
IV	DOT NET LAB III BCA		[MCA LAB]	I M.Sc CS MOBILE APP-DEV	I M.Sc CS MOBILE APP-DEV
V	MOBILE APPLN DEV LAB I M.Sc COMPUTER SCIENCE		[MCA LAB]		
VI		III BCA MOBILE COMPUTING			I M.Sc CS MOBILE APP-DEV

[MCA LAB]

[MCA LAB]

(For ADD-ON COURSES)

Day Order / Hour	I	II	III	IV	V
I					
II					
III					
IV					
V					
VI					


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SYLLABUS

EVEN SEMESTER (2022 - 2023)

Programme : **BCA - III Yr**

Course Code : **MOBILE COMPUTING (16SMBECA 2:3)**

Unit	Syllabus
<u>II</u>	MOBILE DEVICES AND SYSTEMS: Mobile Phones - Digital Music Players - Handheld Pocket Computers - Handheld Devices with Operating Systems - Smart Systems - Limitations of Mobile Devices - Automotive Systems.
<u>IV</u>	DATA SYNCHRONIZATION IN MOBILE COMPUTING SYSTEMS: Synchronization - Synchronization Software For Mobile Devices - Synchronization Protocols - Mobile devices Server and Management: Mobile Agent - Application Server -
	Gateways - Portals - Service Discovery - Device Management - Mobile File Systems - Security.
<u>V</u>	MOBILE OPERATING SYSTEMS: Operating System - Palm OS - Windows CE - Symbian OS - Linux for Mobile Devices.
	TEXT BOOK: MOBILE COMPUTING, Rajkamal, Oxford University Press, 2011. REFERENCE BOOK:

Mobile Computing, Kulkarni Garg, Pearson
Education, 2010.

EVEN SEMESTER (2022 - 2023)

Programme : M.Sc COMPUTER SCIENCE - I Yr.
Course Code : MOBILE APPLICATION DEVELOPMENT (P2210002)

Syllabus

Unit	
I	Introduction to Mobile Applications: Native and web application - Mobile OS and Databases, Introduction to Android History - Features - OSS - OHA - Versions - Android devices - Setting UP Software - IDE - Introduction to ios - ios feature.
II	User Interface - Using Wifi - iPhone marketplace. Android Architecture: Android Stack - Linux Kernel - Android Runtime - Dalvik VM - Application Framework - Android Emulators - Android application development - Virtualization - APIs - Android File system - A Basic Android Application - Deployment. Android Activities: The Activity Lifecycle - Lifecycle methods - Creating Activity.
III	INTENTS: Intent Filters - Activity Stack, Android Services - Simple Services - Binding and Querying the service - Executing services. Broadcast Receivers: Creating and managing receivers - Receiver intents. Content Providers: Creating and Using
IV	Content Providers - Content resolver. ANDROI UI: Android Layouts - Attributes - Layout style.

SYLLABUS

EVEN SEMESTER (2022 - 2023)

Programme : **M.Sc COMPUTER SCIENCE - I yr.**

Course Code : **MOBILE APPLICATION DEVELOPMENT (P22CS CC2)**

Unit	Syllabus
	Linear - Relative - Table - Grid - Frame - Menus - Lists and Notifications - Input Controls: Buttons - Text fields - Checkboxes - alert dialog - Spinners - rating bar - Progress bar.
<u>V</u>	WORKING WITH DATABASES: SQLite - Coding for SQLite Using Android - Publishing and Internationalizing mobile applications - mobile application deployment: Game, clock, Calendar, converter, phone
	book. TEXT BOOK: 1. Barry Burd, "Android Application Development - All-in-one for Dummies". 2nd Edition, wiley India, 2016. 2. Lauren Darcey, Shane Conder, "sams Tech
	yourself Android Application Development in 24 Hours," 2nd Edition, Pearson Education, 2013. 3. Jerome DiMarzio, "Android - A Programmer's Guide" McGraw Hill education, 8th reprint, 2015. 4. David Mark, Jack Nutting, Jeff LaMarche and Frederic Olsson, "Beginning ios 6 Development:
	Exploring the ios SDK," A press 2013. 5. http://www.developer.android.com .

SYLLABUS

EVEN SEMESTER (2022 - 2023)

Programme : **IM.Sc COMPUTER SCIENCE**

Course Code : **MOBILE APPLICATION DEVELOPMENT LAB (P22CSC2BP)**

Unit	Syllabus
1.	Develop an application that uses GUI Components, Font, and colours.
2.	Develop an application that uses Layout managers and event Listeners.
3.	Develop a native Calculator application.
4.	Write an application that draws basic graphical primitives on the screen.
5.	Develop an application that makes use of database.
6.	Implement an application that implements Multi Threading.
7.	Develop a native application that uses GPS location information.
8.	Implement an application that writes data to the SD Card.
9.	Implement an application that creates an alert upon receiving a message.
10.	Write a mobile application that creates alarm clock.

SEMESTER PLAN

EVEN SEMESTER

2022 - 2023

Class/ Subject	Topics to be Covered (Unitwise)		
	December	January	February
I M.Sc CS	Introduction to Mobile Appln- Mobile OS & Database History, features OS, OHA versions	Setting up s/w, IDE, IOS Introduction iPhone, Marketplace, Android Architecture Dalvik VM.	Appln Framework, emulator, virtualization, deployment Android Activity Life cycle, Methods. Creating Activity.
III BCA	Mobile phones, Cellular network for mobile phones Apple iphone,	Digital Music Player, OS, Palm, Symbian Linux for mobile devices.	Smart systems smart labels, sensor actuator, setup box, Limitations. Data synchronization Usage models, s/w Mobile Application

SEMESTER DAY PLAN

EVEN SEMESTER (2022 - 2023)

Name of the Staff: Ms. P. INGRA

Department: COMPUTER SCIENCE

Class & Section: III BCA

Hours Allotted/Week: 4

Title of the Course with Course Code: MOBILE COMPUTING (16SMBECA 203)

Day	Date	Topics/ Quiz/Test Planned	Remarks
1	05/01/2023	Mobile Devices and Systems: Mobile phones	Completed
2	12/01/2023	Cellular Networks for Mobile phones, Apple iPhone.	Completed
3	12/01/2023	Digital Music Players	Completed.
4	12/01/2023	Handheld Pocket Computers	Completed
5	23/01/2023	Hand held Devices: Operating Systems.	Completed
6	23/01/2023	Palm OS, Symbian OS	Completed
7	23/01/2023	Linux for Mobile Devices	Completed
8	23/01/2023	Smart Systems: Smart Cards	Completed
9	23/01/2023	Smart Labels, Smart Tokens	Completed
10	24/01/2023	Sensors, Actuators, Sensors and actuators for Robotic Systems	Completed
11	24/01/2023	Smart Appliances, Set up Boxes	Completed
12	24/01/2023	Limitations of Mobile Devices Automotive Systems	Completed


Signature of the Staff

SEMESTER DAY PLAN

EVEN SEMESTER (2022 - 2023)

Name of the Staff: R. INDRAN

Department: COMPUTER SCIENCE

Section: III BCA

Hours Allotted/Week: 4

Name of the Course with Course Code: MOBILE COMPUTING (16SMBECA2:3)

Sl. No.	Date	Topics/ Quiz/Test Planned	Remarks
5	29/3/23	Service Discovery	Completed
6	29/3/23	Device Management, User Device and Network Profiles.	Completed
7	29/3/23	Directory Service, OMA DM.	Completed
28	29/3/23	Mobile File Systems	Completed
29	29/3/23	Security	Completed
30	29/3/23	Mobile Operating Systems: Operating Systems	Completed
31	29/3/23	Palm OS	Completed
32	29/3/23	Memory Management, File Management	Completed
33	29/3/23	Communication APIs, Application Development Packages.	Completed
34	29/3/23	Windows CE	Completed
35	29/3/23	Symbian OS	Completed
36	29/3/23	Linux for Mobile Devices.	Completed

SEMESTER DAY PLAN

EVEN SEMESTER (2022 - 2023)

Department:

Name of the Staff:

Hours Allotted/Week:

Class & Section:

Title of the Course with Course Code:

Day	Date	Topics/ Quiz/Test Planned	Remarks
85			
86			
87			
88			
89			
90			

Reference Books / Websites

TEXT BOOK :

Mobile Computing, Rajkamal, Oxford University Press, 2011.

REFERENCE BOOK :

Mobile Computing, kumkum Garg, Pearson Education, 2010.

WEBSITES :

<http://www.slide-share.net>

<http://www.smartworld.com>

R. Adhikari
Signature of the Staff

SEMESTER DAY PLAN

EVEN SEMESTER (2022 - 2023)

Name of the Staff: Ms. R. INKRA

Department: COMPUTER SCIENCE

Class & Section: III BCA

Hours Allotted/Week: 6

Title of the Course with Course Code: DOT NET LAB (16SMBECA2P)

Day	Date	Topics/ Quiz/Test Planned	Remarks
1	06.1.23	Design ASP.NET web form using HTML Server Controls to Job Seekers details.	Completed
2	13.1.23	Create an ASP.NET Web form using web controls to enter E-Mail registration form	Completed
3	25.1.23	Apply appropriate Validation techniques in E-mail registration form using Validation Controls.	Completed
4	10.2.23	Write an Asp. Net application to retrieve form data and display it the client browser in a table format.	Completed
5	14.2.23	Create a web App using ADO.NET that uses which performs basic data Manipulation: (i) Insertion, updating, Deleting, Selection,	Completed.
6	23.2.23	Create an application using Data Grid control to access information's from table in SQL Server.	Completed
7	01.3.23	Create an appln. Using Data list Control to access information's from table in SQL server & display the result.	Completed
8	9.3.23	Job Search Portal	Completed
9	13.3.23	College Portal	Completed
10	16.3.23	Company Portal.	Completed.
11			
12			

R. Inkra
Signature of the Staff

DIARY OF TEACHING SCHEDULE

EVEN SEMESTER (2022 - 2023)

Date	Day	Day Order	
05/01/2023	Wednesday	I	
I	I M.Sc CS	Subject	Introduction to mobile application development
II	II BCA		Mobile devices and systems - Introduction, various OS and features.
V	III BCA (.NET LAB)		.Net net features to work in platform.

Date	Day	Day Order	
06/01/2023	Thursday	II	
I	III BCA	Subject	Wipro mee Technologies placement drive.
III	III BCA		Mobile phone features and Limitations.

Date	Day	Day Order	
06/01/2023	Friday	III	
II	I M.Sc CS	Subject	Introduction to mobile, Linux kernel libraries, android run-time application, native apps building blocks.
IV	III BCA (.NET LAB)		Job sequencing profile for job seekers.
V			

DIARY OF TEACHING SCHEDULE

EVEN SEMESTER (2022 - 2023)

Hour	Class	Subject
I	I M.Sc CS	Web Application and its features.
II	III BCA	Inlusto placement Training in MBA Auditorium 9.00 to 4.00 PM.
V	III BCA (DOT NET LAB)	

Hour	Class	Subject
I	III BCA	Apple iPhone, Digital Music players, hand held Pocket computers.
III	III BCA	International Seminar will Robotics be your co-worker by 2050? Krishna Renganathan from Spain.

Hour	Class	Subject
II	I M.Sc CS	Advantages and disadvantages of web app, Hybrid app pros and cons, Mobile OS.
IV	III BCA LAB	E-mail Registration form using web control.
V		

DIARY OF TEACHING SCHEDULE

EVEN SEMESTER (2022 - 2023)

18-01-2023	Wednesday	Day Order : <u>IV</u>
<u>Hour</u>	<u>Class</u>	<u>Subject</u>
I]	III BCA	Inlusto placement Training class
II]	LAB	
III]		
IV]	I M.Sc CS	Types of mobile OS, popular
V]		Platforms of OS, Mobile database Components of mobile database environment, additional functions required for Mobile DBMS.
19-01-2023	Thursday	Day Order : <u>V</u>
<u>Hour</u>	<u>Class</u>	<u>Subject</u>
I]	I M.Sc	Develop an application that
II]	CS LAB	Use GUI components
III]		font and colours.
20-01-2023	Friday	Day Order : <u>VI</u>
<u>Hour</u>	<u>Class</u>	<u>Subject</u>
II	III BCA	Inlusto placement Training class
V	I M.Sc CS	Uses & features, Categories of Android app, History of Android, set up JDK, Android IDE, Architecture of Android.

TEST SCHEDULE EVEN SEMESTER 2022 - 2023

February				
Class/ Subject	Date & Day order	Test Topics	Assignment Topics	Quiz / Viva - Voce
III BCA Mobile Computing	II 1.2.2023		Handhold Devices Features of windows	
I M.Sc cs Mobile APPs Development	III 2.2.2023		Android Architecture.	


R. Ad
Signature of the Staff

AKP
Signature of the HoD

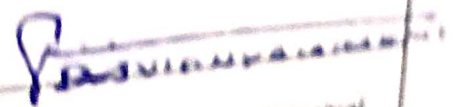
HEAD'S REVIEW
EVEN SEMESTER (2022 - 2023)

Overall Comments

Reviewed completely
Neatly maintained


Signature of the HoD

Ms. N. VIJAYALAKSHMI,
M.Sc., M.Phil., NET, SET,
Head, Dept. of Computer Science,
Computer Applications.


Signature of the President
Shrimati Indira Gandhi College
Truchirappalli-2.