

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Accredited by NBA(B.E-CSE,ECE,EEE,Mech,Civil/B.Tech-II)

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi

principal@egspec.org | enquiries@egspec.org

Counselling Code : **3806**



Accredited by NAAC with Grade 'A'

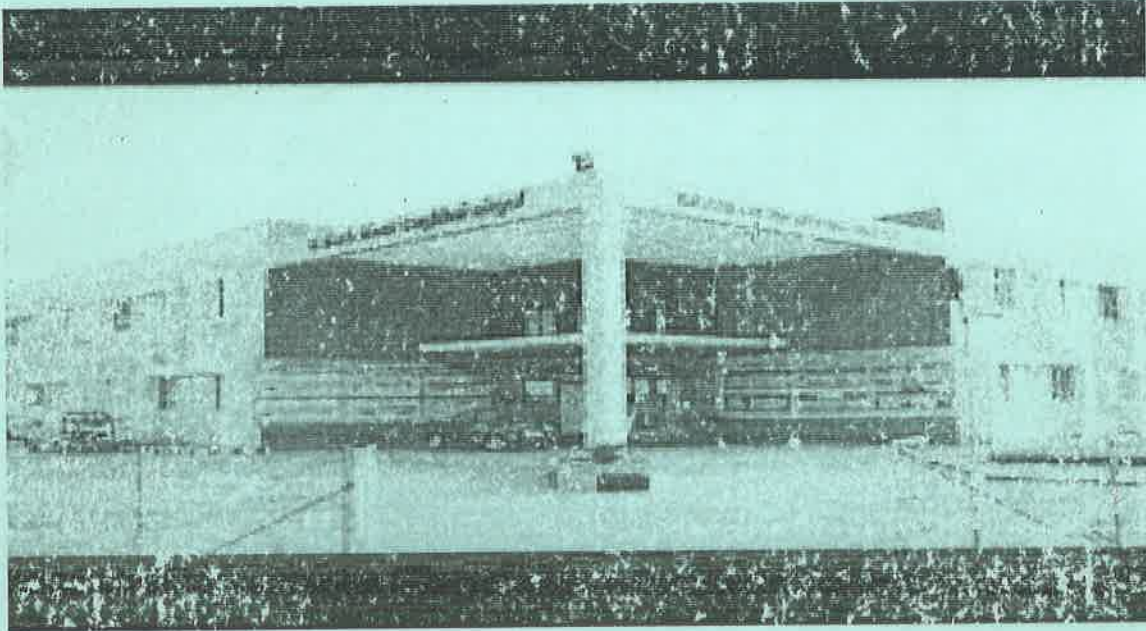
An ISO 9001:2015 Certified Institution | Recognised by UGC 2(f) & 12(B)

+91-4365-251112 | +91-4365-251114

Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu | NIRF Engineering Ranking top **200** in India

## DEPARTMENT OF MCA

### VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"




DATE: 16.05.2022 TO 21.05.2022

Coordinator

1. Mrs. C.MALLIKA/MCA
2. Dr.P.ARUNKUMAR AP/MCA

Convener

Dr.J.VANITHA  
Professor/MCA/HOD

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

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## DEPARTMENT OF MCA

### VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"



**DATE: 16.05.2022 TO 21.05.2022**

*Dr. S. Ramabalan*  
**Dr. S. RAMABALAN, M.E., Ph.D., P.**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

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Counselling Code: 3806

Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu NIFT Engineering Ranking top 200 in India

## DEPARTMENT OF MCA VALUE ADDED COURSE ON

### "1704CA411 - COMBINATION ANDROID AND IOS"

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Dr. S. RAJWALA, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

From

Mrs. C.Mallika  
Associate Professor/MCA  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

To

The Principal,  
E.G.S Pillay Engineering College,  
Nagapattinam

Through

The HOD,  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

Respected Sir

Sub: Valued Added Course -Reg

We are happy to inform you that we planned to organize one week value added course title on "**1704CA411-COMBINATION ANDROID AND IOS**" for II Year Students from 16/05/2022 to 21/05/2022. Herewith we enclose name list, Session details. Kindly give permission for conducting value added course.

Thanking you

Yours truly

  
[Mrs. C.MALLIKA]

**Dr.C.MALLIKA**  
Associate Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.





**E.G.S. Pillay Engineering College,**  
[Autonomous]  
**Nagapattinam - 611002**  
Approved by AICTE, New Delhi | Affiliated to Anna  
University, Chennai  
Accredited by NAAC with 'A' Grade  
An ISO 9001 : 2015 Certified Institution  
**NAGAPATTINAM - 611002 TAMIL NADU**  
Ph : 04365-251112 / 251114  
E-mail: enquires@egspec.org  
Website : www.egspec.org

**ONE WEEK VALUE ADDED COURSE-  
1704CA411 -COMBINATION ANDROID  
AND IOS**

**DATE:16.05.2022&21.05.2022**  
**(Venue: SOFTVIEW LAB )**

**Organized by  
DEPARTMENT OF MCA**



**CONVENER**

**Dr .J.Vanitha, MCA.,M.Phil., Ph.D**  
**Professor/HOD/MCA**

**CO-ORDINATOR**

- Mrs.C.Mallika MCA.,MBA.,M.Phil.,(Ph.D.,)**
- Dr.P.ARUNKUMAR MCA., Ph.d AP /MCA**

**ABOUT THE INSTITUTION**

E G S Pillay Engineering College is one of the pioneering non - grant engineering Colleges in the State. It was established by the E G S Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamilnadu, approval of the All India Council for Technical Education, New Delhi and affiliation to Bharathidasan University, Tiruchirappalli. Its courses are affiliated to Anna University, Chennai from 2002 and the degrees are awarded by Anna University, as per the Government Orders. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non - grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non - grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The college approved by AICTE-New Delhi, affiliated to Anna University-Chennai, recognized by UGC Act 2(f) &12(B) and accredited by NAAC with 'A' Grade and NBA for three Departments (B.E-CSE/EEE/MECH).

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**DEPARTMENT PROFILE**

The department of computer applications focuses on making industry ready IT professionals by imparting quality computer education along with excellent interpersonal skills. It offers 3 years Full time MCA course to the students. Started in the year of 2001, the course was approved by Bharathidasan University, Trichirappalli. In 2003, Anna University, Chennai recognized and approved the course. The current intake of students is 60 per academic year.

**OBJECTIVES**

- Create robust mobile applications and learn how to integrate them with other services.
- Create intuitive, reliable mobile apps using the android services and components.
- Create a seamless user interface that works with different mobile screens

**ORGANIZING COMMITTEE**

**CHIEF PATRONS**

**Mrs.Jothimani G.S. Pillay,**  
**Chairman.**  
**Shri S.Senthilkumar**  
**Secretary-EGSPGOI.**  
**Shri S.Sankar Ganesh**  
**Joint Secretary- EGSPGOI**  
**Dr. Shri S. Paramesvaran**  
**Advisor- EGSPGOI**

**PATRONS**

**Dr. S. Ramabalan, M.E., Ph.D.,**  
**Principal.**  
**Dr.V.Mohan, M.E., Ph.D.,**  
**Academic Director.**  
**Dr.M.Chinnadurai,M.E.,Ph.D**  
**Professor/CSE/COE**

**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)**

**DEPARTMENT OF MCA**

**CIRCULAR**

Date 14.05.2022

It is proposed to conduct a value added course on **1704CA411-COMBINATION ANDROID AND IOS ""** from 16.05.2022 to 21.05.2022 for second year students. There is no registration fee. Certificates will be provided for those who attend the course.



Coordinator

**Dr.C. MALLIKA**  
Associate Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.



HOD/MCA

**Dr.J. VANITHA**  
Head of the Department  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.



Principal

**Dr. S. RAMABALAN, M.E. Ph.D.**  
PRINCIPAL  
E.G.S. PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM - 611 002.



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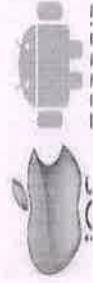
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## DEPARTMENT OF COMPUTER APPLICATIONS VALUE ADDED COURSE ON PROGRAM SCHEDULE



DATE: 16.05.2022 TO 21.05.2022

Date/ Session	I Session 9.00 A.M. to 11.00 A.M	II Session 11.15 A.M. to 01.00 P.M	III Session 02.00 P.M. to 03.00 P.M.	IV Session 3.00 P.M. to 5.00 P.M.
16.05.2022	Introduction To Mobile Apps	Introduction Android	Introduction IOS	Hand on session
17.05.2022	Android Architecture	Telephony Services , Making calls ,	Monitoring data connectivity and activity	Hand on session
18.05.2022	Accessing phone properties and status	Controlling the phone Sending messages	Deep Overview in Android Stack, Installing Android Machine	Hand on session
19.05.2022	Creating First Android Application,Android Components	Data Storage	Shared Preferences , Android File System Android File System	Hand on session
20.05.2022	Internal storage ,External storage	SQLite	Data Storage, Shared Preferences	Hand on session
21.05.2022	Android File System	Why ios, ModelView, Controller Design Paradigm	Uploading to the App Store	Hand on session

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PRINCIPAL

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Dr. J. HODINCA

Head of the Department

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam - 611 002.


## E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

### VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"

#### REPORT

A value added course on android mobile application development was conducted in department to MCA for II year students, 40 hour per week. The course starts on 16<sup>th</sup> may 2022. The first three week session was handled by S.Ramanan AELDATA Service DLF Chennai MGR Nagar ,Chennai , and Mrs. C.Mallika Assoc Prof/MCA E.G.S.P.E.C on the need for Android App development, Installation of eclipse and android development kit and the basic files in the android. The further sessions were handled by M.Suresh Techzon Pondicherry. On that session students learnt how to develop simple android applications. The first app developed by students is to display a simple message. From this they are familiar with how to create an app, and run the app. The second app developed by students is to display the contents in the text box as simple text. From this, they learnt how to use the components in the app development and also learnt to code for that app. The third app developed by the student is simple addition calculation. The fourth app developed by student is simple calculator. From this they are very well trained with how to use android software for application development and writing code for the application. Students felt that this value added session on android mobile app development was very much useful for them and they got the basic idea for developing mobile application. It is planned to extend this value added training in the next semester with some medium level of application development.

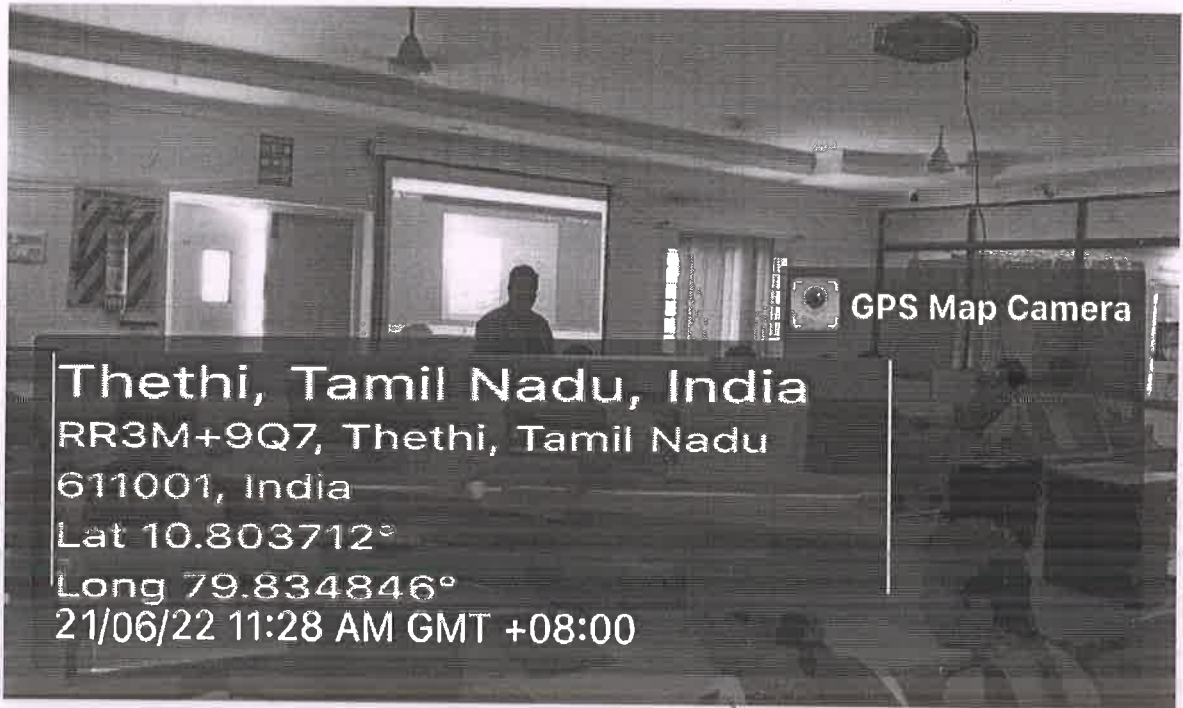


  
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## II SESSION

The session started with revision on previous session involving solving some problems on the concepts. Information mobile app and using GUI Commands.



  
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## DEPARTMENT OF MCA

### VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"


#### SYLLABUS

#### 1704CA411-COMBINATION ANDROID AND IOS

##### Course Outcomes

- i. Build enterprise level mobile applications with Kotlin on Android
- ii. Understand both the basic and advanced concepts of Kotlin
- iii. Understand why use Kotlin over Java
- iv. Install and configure Android Studio
- v. Explain and use key Android programming concepts
- vi. Deploy the application on Google Play
- vii. Become a certified Android developer

S.No	SYLLABUS	Hours (40)
Day I	Introduction To Mobile Apps - Introduction Android - Introduction IOS - Android Architecture	8 Hrs
Day II	Deep Overview in Android Stack - Installing Android Machine - Creating First Android Application - Android Components	8 Hrs
Day III	Data Storage - Shared Preferences - Android File System - Internal storage - External storage - SQLite	8 Hrs
Day IV	Why Ios - - ModelView-Controller Design Paradigm - Uploading to the App Store - Web Services and WebView	8 Hrs
Day V	Telephony Services - Making calls - Monitoring data connectivity and activity - Accessing phone properties and status - Controlling the phone - Sending messages	8 Hrs

  
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## E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS)

NAGAPATTINAM

DEPARTMENT OF COMPUTE R APPLICATIONS

VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS'

ACADEMIC YEAR-2021-2022, II MCA STUDENTS IV SEM BATCH (2020-2022)

S.NO	REGISTER NO	STUDENT NAME	16.05.2022	17.05.2022	18.05.2022	19.05.2022	20.05.2022	21.05.2022
1	E20CAR001	ABINAYA B	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya	Abinaya
2	E20CAR002	ABINESH A	Abinayesh	Abinayesh	Abinayesh	Abinayesh	Abinayesh	Abinayesh
3	E20CAR003	AGENUS BEAULA P	ABP	ABP	ABP	ABP	ABP	ABP
4	E20CAR004	AMRISH MAHADIC R	Amr	Amr	Amr	Amr	Amr	Amr
5	E20CAR005	ANBUBHARATHI N	Ann	Ann	Ann	Ann	Ann	Ann
6	E20CAR007	CELES PHILO R	PCP	PCP	PCP	PCP	PCP	PCP
7	E20CAR008	DEVI PRIYANGA S	Dev	Dev	Dev	Dev	Dev	Dev
8	E20CAR009	DHIVYA M	Dm	Dm	Dm	Dm	Dm	Dm
9	E20CAR010	ELANGKUMARAN R	Elan	Elan	Elan	Elan	Elan	Elan
10	E20CAR011	GAYATHRI P	Gay	Gay	Gay	Gay	Gay	Gay
11	E20CAR012	GANISHMA K	Gan	Gan	Gan	Gan	Gan	Gan
12	E20CAR013	GAYATHIRI S	Gay	Gay	Gay	Gay	Gay	Gay
13	E20CAR014	GUNALAN R	Guna	Guna	Guna	Guna	Guna	Guna
14	E20CAR015	HARIHARAN J	Hari	AB	Hari	Hari	Hari	Hari
15	E20CAR016	INDHIRA T	Ind	Ind	Ind	Ind	Ind	Ind
16	E20CAR018	JAYA BHARATHI M	Jay	Jay	Jay	Jay	Jay	Jay
17	E20CAR019	JOTHIKA K	Joth	Joth	Joth	Joth	Joth	Joth
18	E20CAR020	KALAISELVI K	Kalai	Kalai	Kalai	Kalai	Kalai	Kalai
19	E20CAR021	KALAIVANI K	Kalai	Kalai	Kalai	Kalai	Kalai	Kalai
20	E20CAR022	KARUNNIYA R	Karu	Karu	Karu	Karu	Karu	Karu
21	E20CAR023	LAKSHMI B	Lak	Lak	Lak	Lak	Lak	Lak
22	E20CAR024	MASKOOTH FAROOK B	Mask	Mask	Mask	Mask	Mask	Mask
23	E20CAR026	MOHAMED AKRAM KHAN B	Moh	Moh	Moh	Moh	Moh	Moh
24	E20CAR027	MOHAMED SHAMEER S	Moh	Moh	Moh	Moh	Moh	Moh
25	E20CAR028	MOHAMED WASIM M	Moh	Moh	Moh	Moh	Moh	Moh
26	E20CAR029	MOHAMED YASAR D	Moh	Moh	Moh	Moh	Moh	Moh
27	E20CAR030	MOHAMED SUMHOON J	Moh	AB	Moh	Moh	AB	Moh
28	E20CAR031	MOUSIGA V	Mou	Mou	Mou	Mou	Mou	Mou
29	E20CAR032	NIVYASRI M	Nivy	Nivy	Nivy	Nivy	Nivy	Nivy
30	E20CAR033	PAVITHRA M	Pav	Pav	Pav	Pav	Pav	Pav
31	E20CAR034	PRADHEEBA S	Prad	Prad	Prad	Prad	Prad	Prad
32	E20CAR035	PREETHI R	Pre	Pre	Pre	Pre	Pre	Pre
33	E20CAR036	PRIYADHARSHINI S	Pri	Pri	Pri	Pri	Pri	Pri
34	E20CAR037	RAJAMALANI R	Raja	Raja	Raja	Raja	Raja	Raja
35	E20CAR038	RAJARAJAN S	Raja	AB	Raja	AB	Raja	Raja
36	E20CAR039	RAJESH S	Raj	Raj	Raj	Raj	Raj	Raj
37	E20CAR040	RANJANI R	Ran	Ran	Ran	Ran	Ran	Ran

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPALE.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

38	E20CAR041	REENA S	Reena	Reena	Reena	Reena	Reena	Reena
39	E20CAR042	REVITHI SRI	Revi	Revi	Revi	Revi	Revi	Revi
40	E20CAR043	SAMIMOON NISHA A	Sania	Sania	Sania	Sania	Sania	Sania
41	E20CAR044	SIVAPRASATH M	Sivap	Sivap	Sivap	Sivap	Sivap	Sivap
42	E20CAR045	SOWMIYA R	Sowmi	Sowmi	Sowmi	Sowmi	Sowmi	Sowmi
43	E20CAR046	SOWMIYA V	Sowmi	Sowmi	Sowmi	Sowmi	Sowmi	Sowmi
44	E20CAR047	SRIDEVI R	Sride	Sride	Sride	Sride	Sride	Sride
45	E20CAR048	SUBASHINI R	Suba	Suba	Suba	Suba	Suba	Suba
46	E20CAR049	SUBITHA S	Subi	Subi	Subi	Subi	Subi	Subi
47	E20CAR050	SUJITHA S	Sujith	Sujith	Sujith	Sujith	Sujith	Sujith
48	E20CAR051	SURUTHI E	Suru	Suru	Suru	Suru	Suru	Suru
49	E20CAR052	SUSHMITHAA M	Sush	Sush	Sush	Sush	Sush	Sush
50	E20CAR053	TAMILARASI R	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil
51	E20CAR055	VEDHAMALIKA R	Vedha	Vedha	Vedha	Vedha	Vedha	Vedha
52	E20CAR056	VENGATESH P	Venka	Venka	Venka	Venka	Venka	Venka
53	E20CAR057	VIKRAM M	Vikra	Vikra	Vikra	Vikra	Vikra	Vikra
54	E20CAR058	VINOTHA LAKSHMI V	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot
55	E20CAR059	YOGA LAKSHMI S	Yoga	Yoga	Yoga	Yoga	Yoga	Yoga
56	E20CAR060	YUVETHA S	Yuve	Yuve	Yuve	Yuve	Yuve	Yuve

CO-Ordinator Signature

Dr.C. MALLIKA

Associate Professor

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam - 611 002.

HOD/MCA

Dr.J. VANITHA

Head of the Department

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam - 611 002.

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,

Thethi, Nagore - 611 002

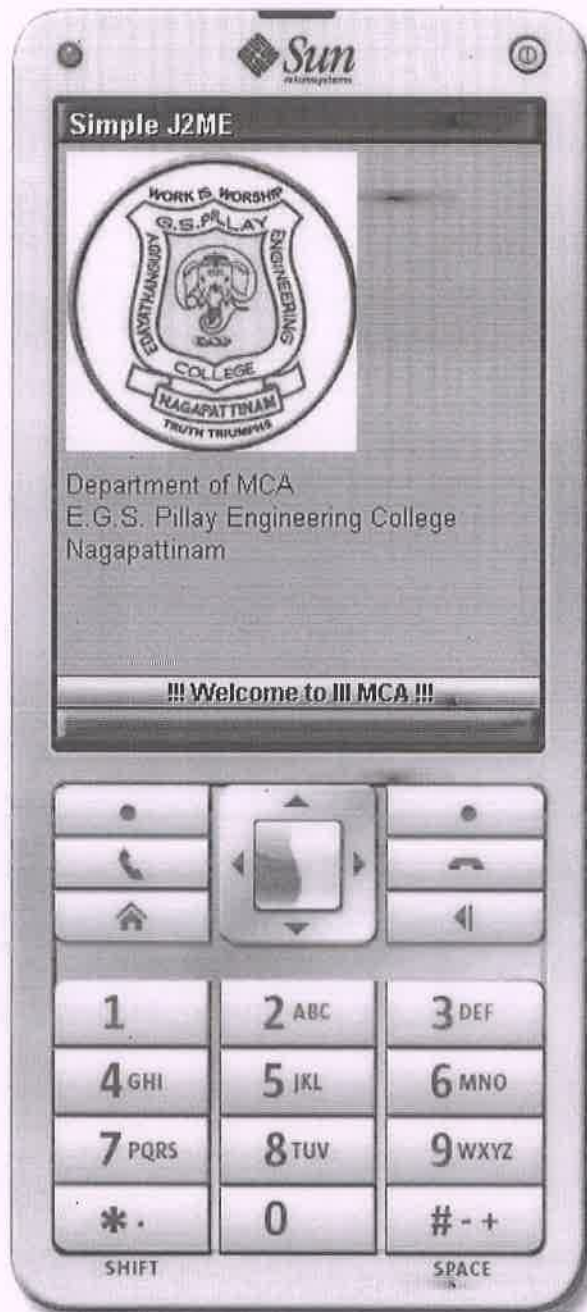
Nagapattinam (Dt) Tamil Nadu.

## SIMPLE MOBILE APPLICATION

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
public class SimpleJ2ME extends MIDlet {
    private Form form;
    private Ticker ticker;
    private Image image;
    public void startApp() {
        form = new Form("Simple J2ME");
        ticker = new Ticker("!!! Welcome to III MCA !!!");
        String data = "Department of MCA\nE.G.S. Pillay Engineering College\nNagapattinam";
        form.setTicker(ticker);
        try {
            image = Image.createImage("/logo.jpg");
        } catch(Exception e) {}
        form.append(image);
        form.append(data);
        Display.getDisplay(this).setCurrent(form);
    }
    public void pauseApp() { }
    public void destroyApp(boolean unconditional) { }
}
```

  
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## SAMPLE INPUT & OUTPUT



  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

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Thethi, Nagore - 611 002.  
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# INTRODUCTION

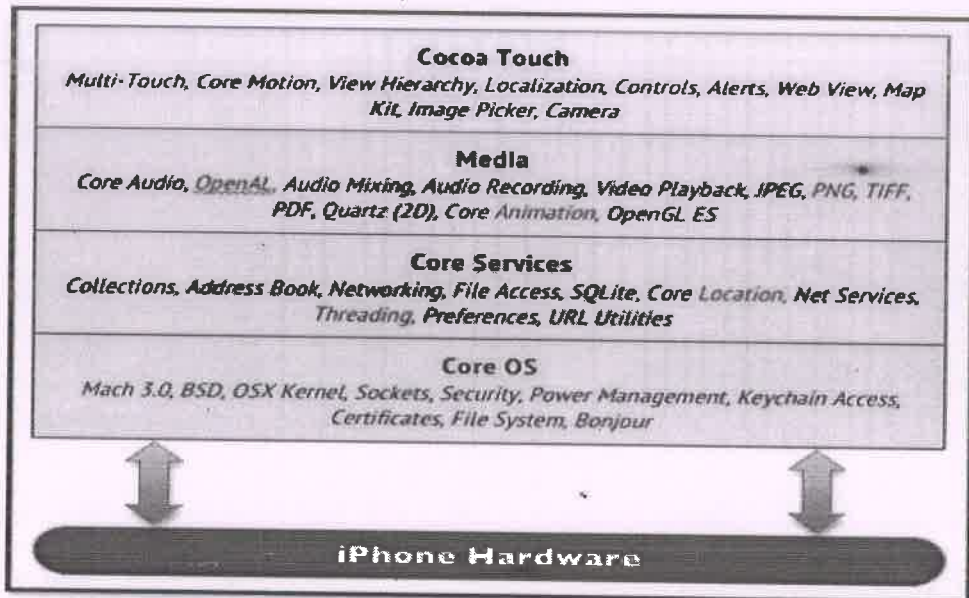
**ANDROID OS:** A Mobile Operating System(MOS) developed by Google.

- Open source
- Based on linux kernal
- Programming used- JAVA, XML,PYTHON

**iPhone OS(iOS)**A Mobile Operating System developed by Apple.Inc

- Derived from Mac OS X
- Unix-like OS and has Hybrid Kernal architecture
- Programming used-C,C++,Objective-C

• **Layers of ios:**



  
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What is Android?



Android is an open source and Linux-based **Operating System** for mobile devices such as smartphones and tablet computers. Android was developed by the *Open Handset Alliance*, led by Google, and other companies.

Android offers a unified approach to application development for mobile devices which means developers need only develop for Android, and their applications should be able to run on different devices powered by Android.

The first beta version of the Android Software Development Kit (SDK) was released by Google in 2007 where as the first commercial version, Android 1.0, was released in September 2008.

On June 27, 2012, at the Google I/O conference, Google announced the next Android version, 4.1 **Jelly Bean**. Jelly Bean is an incremental update, with the primary aim of improving the user interface, both in terms of functionality and performance.

The source code for Android is available under free and open source software licenses. Google publishes most of the code under the Apache License version 2.0 and the rest, Linux kernel changes, under the GNU General Public License version 2.

Why Android ?

  
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Android powers hundreds of millions of mobile devices in more than 190 countries around the world. It's the largest installed base of any mobile platform and growing fast. Every day more than 1 million new Android devices are activated worldwide.

This tutorial has been written with an aim to teach you how to develop and package Android application. We will start from environment setup for Android application programming and then drill down to look into various aspects of Android applications.

### Categories of Android applications

There are many android applications in the market. The top categories are -

### History of Android

The code names of android ranges from A to N currently, such as Aestro, Blender, Cupcake, Donut, Eclair, Froyo, Gingerbread, Honeycomb, Ice Cream Sandwich, Jelly Bean, KitKat, Lollipop and Marshmallow. Let's understand the android history in a sequence.

### What is API level?

API Level is an integer value that uniquely identifies the framework API revision offered by a version of the Android platform.

Platform Version	API Level	VERSION_CODE	
Android 6.0	23	MARSHMALLOW	
Android 5.1	22	LOLLIPOP_MR1	
Android 5.0	21	LOLLIPOP	
Android 4.4W	20	KITKAT_WATCH	KitKat for Wearables Only
Android 4.4	19	KITKAT	
Android 4.3	18	JELLY_BEAN_MR2	
Android 4.2, 4.2.2	17	JELLY_BEAN_MR1	
Android 4.1, 4.1.1	16	JELLY_BEAN	
Android 4.0.3, 4.0.4	15	ICE_CREAM_SANDWICH_MR1	
Android 4.0, 4.0.1,	14	ICE_CREAM_SANDWICH	

  
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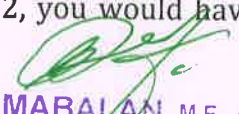
4.0.2		
Android 3.2	13	HONEYCOMB_MR2
Android 3.1.x	12	HONEYCOMB_MR1
Android 3.0.x	11	HONEYCOMB
Android 2.3.4	10	GINGERBREAD_MR1
Android 2.3.3		
Android 2.3.2	9	GINGERBREAD
Android 2.3.1		
Android 2.3		
Android 2.2.x	8	FROYO
Android 2.1.x	7	ECLAIR_MR1
Android 2.0.1	6	ECLAIR_0_1
Android 2.0	5	ECLAIR
Android 1.6	4	DONUT
Android 1.5	3	CUPCAKE
Android 1.1	2	BASE_1_1
Android 1.0	1	BASE

### Set-up Java Development Kit (JDK)

You can download the latest version of Java JDK from Oracle's Java site - Java SE Downloads. You will find instructions for installing JDK in downloaded files, follow the given instructions to install and configure the setup. Finally set PATH and JAVA\_HOME environment variables to refer to the directory that contains **java** and **javac**, typically `java_install_dir/bin` and `java_install_dir` respectively.

If you are running Windows and installed the JDK in `C:\jdk1.8.0_102`, you would have to put the following line in your `C:\autoexec.bat` file.

```
set PATH=C:\jdk1.8.0_102\bin;%PATH%
```

  
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## **Android Studio**

This is IDE created by community named "IntelliJIDEA" used as platform for developing Mobile Apps based on Android Technology. The IntelliJIDEA, Android based studio provides massive amount of plugins created by different communities.

**Eclipse** - This IDE is used to develop the programs in Java and it also enables the developer to expand with other languages via plugins.

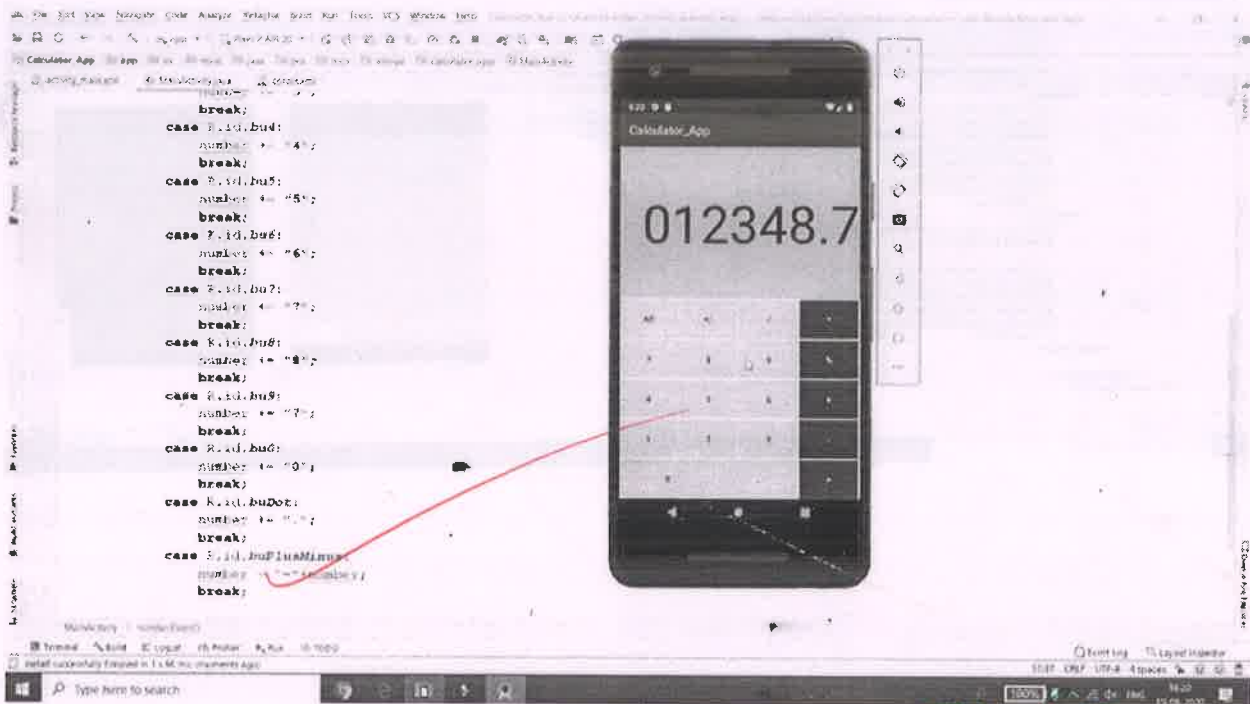
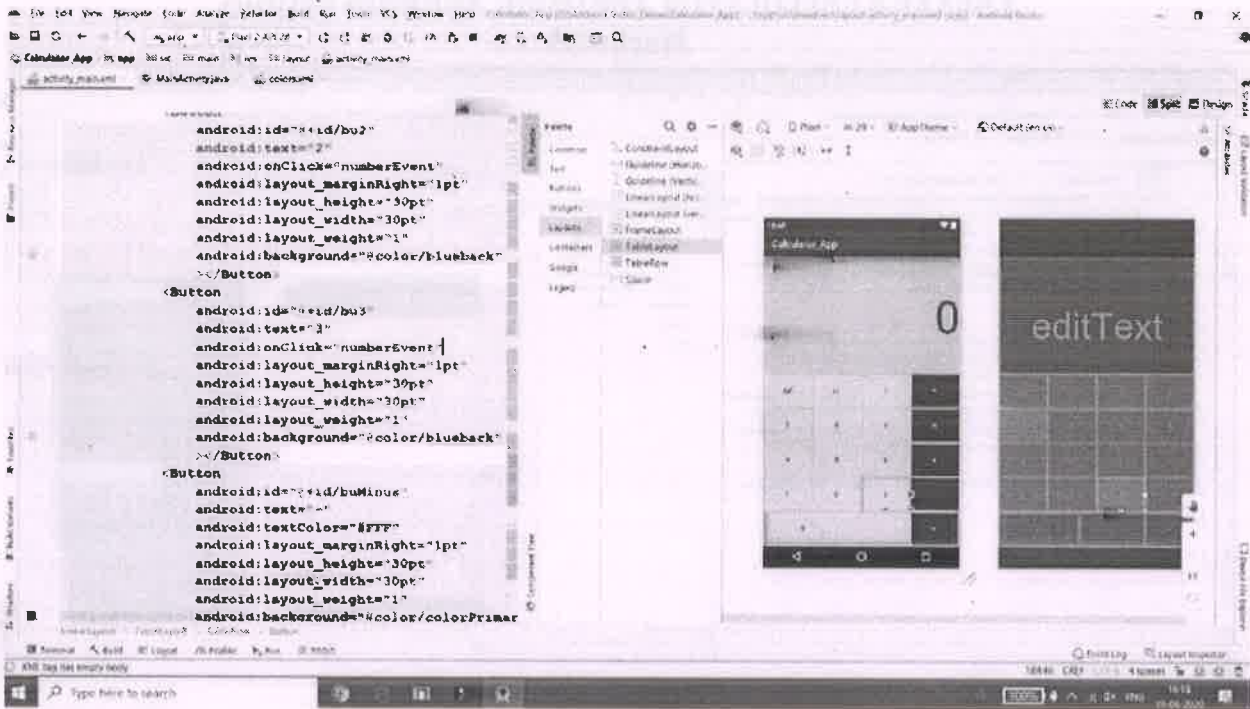
**DroidEdit** - This is a text and code editor used on Android platforms for writing the programs.

**Android-IDE** - A complete web and Android development environment that allows writing and editing Java and PhoneGap apps.

**Cordova** - This is free and open source tool used to create to develop hybrid apps with HTML, CSS and JS.

**Corona** - This is also free tool available which is used develop game apps having 2D development platform. It is also used to develop cross platform apps.

  
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## SURVEY OF MOBILE APPLICATION DEVELOPMENT TOOLS

### Mobile application development

Mobile application development is the set of processes and procedures involved in writing software for small, wireless computing devices such as smartphones or tablets

#### What is J2ME?

J2ME (Java 2 Platform, Micro Edition) is a technology that allows programmers to use the Java programming language and related tools to develop programs for mobile wireless information devices such as cellular phones and personal digital assistants (PDAs). J2ME consists of programming specifications and a special virtual machine, the K Virtual Machine that allows a J2ME-encoded program to run in the mobile device.

A Sample Wireless Stack would consist of:

- Profiles
- Configurations
- Java Virtual Machines
- Host Operating System

#### What is a J2ME Configuration?

A configuration defines the minimum Java technology that an application developer can expect on a broad range of implementing devices.

#### J2ME Connected, Limited Device Configuration (CLDC)

- specifies the Java environment for mobile phone, pager and wireless devices
- CLDC devices are usually wireless
- 160 - 512k of memory available for Java
- typically has limited power or battery operated
- network connectivity, often wireless, intermittent, low-bandwidth (9600bps or less)

#### J2ME Connected Device Configuration (CDC)

- Describes the Java environment for digital television set-top boxes, high end wireless devices and automotive telematics systems.
- device is powered by a 32-bit processor
- 2MB or more of total memory available for Java
- network connectivity, often wireless, intermittent, low-bandwidth (9600bps or less)

These two configurations differ only in their respective memory and display capabilities.

  
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## DEPARTMENT OF COMPUTER APPLICATIONS

### VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"

#### TEST QUESTION

Maximum Mark: 25

Date : 16.05.2022 to 21.05.2022

1. Android is -
  - a. an operating system
  - b. a web browser
  - c. a web server
  - d. None of the above
2. Under which of the following Android is licensed?
  - a. OSS
  - b. Sourceforge
  - c. Apache/MIT
  - d. None of the above
3. For which of the following Android is mainly developed?
  - a. Servers
  - b. Desktops
  - c. Laptops
  - d. Mobile devices

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- 4) Which of the following is the first mobile phone released that ran the Android OS?
  - a. HTC Hero
  - b. Google gPhone
  - c. T - Mobile G1
  - d. None of the above
- 5) Which of the following virtual machine is used by the Android operating system?
  - a. JVM
  - b. Dalvik virtual machine
  - c. Simple virtual machine
  - d. None of the above
- 6) Android is based on which of the following language?
  - a. Java
  - b. C++
  - c. C
  - d. None of the above

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### VALUE ADDED COURSE ON " 1704CA411-COMBINATION ANDROID AND IOS"

B. Abinaya  
E20CARD001  
II - MUA

#### TEST QUESTION

Maximum Mark: 25

Date : 16.05.2022 to 21.05.2022

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- b. Android Virtual display
- c. Active Virtual display
- d. Active Virtual device

19) Does android support other languages than java?

- a. Yes
- b. No
- c. May be
- d. Can't say

20) What is the use of content provider in Android?

- a. For storing the data in the database
- b. For sharing the data between applications
- c. For sending the data from an application to another application
- d. None of the above

  
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S. Pradheepa

VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS" EPOCA R034

II - MCA

### TEST QUESTION

Maximum Mark: 25

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*[Signature]*  
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DEPARTMENT OF COMPUTE R APPLICATIONS

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ACADEMIC YEAR-2021-2022 ASSESSMENT MARK

II MCA STUDENTS IV SEM BATCH (2020-2022)

Lab Activity Mark

S.NO	REGISTER NO	STUDENT NAME	TEST Mark
1	E20CAR001	ABINAYA B	24
2	E20CAR002	ABINESH A	20
3	E20CAR003	AGENUS BEAULA P	25
4	E20CAR004	AMRISH MAHADIC R	25
5	E20CAR005	ANBUBHARATHI N	20
6	E20CAR007	CELES PHILO R	25
7	E20CAR008	DEVI PRIYANGA S	25
8	E20CAR009	DHIVYA M	25
9	E20CAR010	ELANGKUMARAN R	18
10	E20CAR011	GAYATHRI P	25
11	E20CAR012	GANISHMA K	24
12	E20CAR013	GAYATHIRI S	25
13	E20CAR014	GUNALAN R	23
14	E20CAR015	HARIHARAN J	25
15	E20CAR016	INDHIRA T	24
16	E20CAR018	JAYA BHARATHI M	25
17	E20CAR019	JOTHIKA K	25
18	E20CAR020	KĀLAISELVI K	24
19	E20CAR021	KALAIVANI K	24
20	E20CAR022	KARUNNIYA R	25
21	E20CAR023	LAKSHMI B	23
22	E20CAR024	MASKOOTH FAROOK B	21
23	E20CAR026	MOHAMED AKRAM KHAN B	21
24	E20CAR027	MOHAMED SHAMEER S	24
25	E20CAR028	MOHAMED WASIM M	22
26	E20CAR029	MOHAMED YASAR D	23
27	E20CAR030	MOHAMED SUMHOON J	24
28	E20CAR031	MOUSIGA V	25
29	E20CAR032	NIVYASRI M	25
30	E20CAR033	PAVITHRA M	25
31	E20CAR034	PRADHEEBA S	25
32	E20CAR035	PREETHI R	25
33	E20CAR036	PRIYADHARSHINI S	24
34	E20CAR037	RAJAMALANI R	23
35	E20CAR038	RAJARAJAN S	16
36	E20CAR039	RAJESH S	23
37	E20CAR040	RANJANI R	25
38	E20CAR041	REENA S	24
39	E20CAR042	REVITHI SRI	25

40	E20CAR043	SAMIMOON NISHA A	21
41	E20CAR044	SIVAPRASATH M	20
42	E20CAR045	SOWMIYA R	24
43	E20CAR046	SOWMIYA V	22
44	E20CAR047	SRIDEVI R	21
45	E20CAR048	SUBASHINI R	23
46	E20CAR049	SUBITHA S	23
47	E20CAR050	SUJITHA S	25
48	E20CAR051	SURUTHI E	15
49	E20CAR052	SUSHMITHAA M	25
50	E20CAR053	TAMILARASI R	21
51	E20CAR055	VEDHAMALIKA R	20
52	E20CAR056	VENGATESH P	19
53	E20CAR057	VIKRAM M	21
54	E20CAR058	VINOTHA LAKSHMI V	25
55	E20CAR059	YOGA LAKSHMI S	23
56	E20CAR060	YUVETHA.S	24

CO-Ordinator Signature

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Associate Professor  
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**Dr.J.VANITHA**  
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VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS'

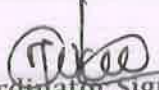
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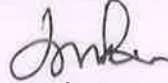
II MCA STUDENTS IV SEM BATCH (2020-2022)


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## VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"

### Course Outcomes CO-PO -PSO MAPPING

- i. Build enterprise level mobile applications with Kotlin on Android
- ii. Understand both the basic and advanced concepts of Kotlin
- iii. Understand why use Kotlin over Java
- iv. Install and configure Android Studio
- v. Explain and use key Android programming concepts
- vi. Deploy the application on Google Play
- vii. Become a certified Android developer

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	PO11	PO12	PSO 1	PSO 2
C01	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C02	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C03	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C04	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C05	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C06	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
C07	-	-	3	3	3-	-	-	-	-	2	-	2	3	-
Average	-	-	3	3	3-	-	-	-	-	2	-	2	3	-

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High) "-No Correlation

  
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## FEEDBACK FORM

### VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"

Name of the Participant: *M. Parithara* Date: 16.05.2022 to 21.05.2022

Organization: *ECISPEC/MCA*

S.NO	FeedBack	Excellent	Good	Average
1.	The workshop was applicable to my job.		✓	
2.	I will recommend this workshop for other faculty members.	✓		
3.	The program was well paced within the allotted time..		✓	
4.	The material was presented in an organized manner		✓	
5.	The resource person was a good communicator		✓	
6.	The resource person was knowledgeable on the topic		✓	
7.	I would be interested in attending a follow-up, more advanced workshop on this same subject. <i>S. RAMABHARAN</i>		✓	

*S. RAMABHARAN*  
PRINCIPAL

*M. Parithara*  
Student Signature

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Coursing Code : **3806** Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu NKF Engineering Ranking Top **200** in India

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Counselling Code - 3806 Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu Nike Engineering Ranking Top 200 in India

## FEEDBACK FORM

VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"

Date: 16.05.2022 to 21.05.2022

Name of the Participant: P. Gayathri  
Organization: EGSPEC/MCA

S.NO	FeedBack	Excellent	Good	Average
1.	The workshop was applicable to my job.		✓	
2.	I will recommend this workshop for other faculty members.		✓	
3.	The program was well paced within the allotted time.		✓	
4.	The material was presented in an organized manner		✓	
5.	The resource person was a good communicator		✓	
6.	The resource person was knowledgeable on the topic		✓	
7.	I would be interested in attending a follow-up, more advanced workshop on this same subject		✓	

Dr. S. RAMABALAN

PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.

P. Gayathri  
Student Signature

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Counselling Code - 3806 Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu Nike Engineering Ranking Top 200 in India



**FEEDBACK FORM**  
**VALUE ADDED COURSE ON "1704CA41-COMBINATION ANDROID AND IOS"**

Name of the Participant: Mohamed wassem Date: 16.05.2022 to 21.05.2022

Organization: IGSPEC/MCA

S.NO	FeedBack	Excellent	Good	Average
1.	The workshop was applicable to my job.		<input checked="" type="checkbox"/>	
2.	I will recommend this workshop for other faculty members.	<input checked="" type="checkbox"/>		
3.	The program was well paced within the allotted time.	<input checked="" type="checkbox"/>		
4.	The material was presented in an organized manner	<input checked="" type="checkbox"/>		
5.	The resource person was a good communicator	<input checked="" type="checkbox"/>		
6.	The resource person was knowledgeable on the topic	<input checked="" type="checkbox"/>		
7.	I would be interested in attending a follow-up, more-advanced workshop on this same subject	<input checked="" type="checkbox"/>		

Mohamed wassem  
 Student Signature

DR. RAMA BALAKRISHNAN, Ph.D.,  
 200 PRINCIPAL LITTONI  
 THEFTI WADGONALISA 002.  
 THEFTI WADGONALISA 002.  
 DR. J.D.  
 THEFTI WADGONALISA 002.

**FEEDBACK FORM**  
**VALUE ADDED COURSE ON "1704CA411-COMBINATION ANDROID AND IOS"**

Name of the Participant: *M. Sivaprasath*

Date: 16.05.2022 to 21.05.2022

Organization: *EGSPEC/MCA*

S.NO	FeedBack	Excellent	Good	Average
1.	The workshop was applicable to my job.		✓	
2.	I will recommend this workshop for other faculty members.	✓		
3.	The program was well paced within the allotted time.			
4.	The material was presented in an organized manner		✓	
5.	The resource person was a good communicator			
6.	The resource person was knowledgeable on the topic	✓		
7.	I would be interested in attending a follow-up, more advanced workshop on this same subject		✓	

*[Signature]*  
**Dr. S. RAMABALAN**, M.E., Ph.D.,  
PRINCIPAL

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

*[Signature]*  
Student Signature

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Counseling Code - 3806

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## DEPARTMENT OF MCA

VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"


### CERTIFICATE

This is to certify that Mr./Mrs. SHYATHRI P has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from


16.05.2022 TO 21.05.2022

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

  
**Mrs. C. MALLIKA**  
ASSOC PROF/MCA  
COORDINATOR

  
**Dr. J. VANITHA**  
PROFESSOR/HOD/MCA  
CONVENER

  
**Dr. S. RAMABALAN**  
PRINCIPAL, EGSPEC  
ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.**  
PRINCIPAL  
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Nagapattinam (Dt) Tamil Nadu.

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## DEPARTMENT OF MCA

VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"



### CERTIFICATE

This is to certify that Mr./Mrs. MDHAMED YASAR D has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from

16.05.2022 TO 21.05.2022

  
Mrs. C. MALLIKA  
ASSOC PROF/MCA  
COORDINATOR

  
Dr. J. VANITHA  
PROFESSOR/HOD/MCA  
CONVENER

  
Dr. S. RAMABALAN  
PRINCIPAL, EGSPEC  
ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.  
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Nagapattinam (Dt) Tamil Nadu.

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## DEPARTMENT OF MCA


VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"

### CERTIFICATE



This is to certify that Mr./Mrs. PREETHI R has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from

16.05.2022 TO 21.05.2022

  
Mrs. C. MALLIKA  
ASSOC PROF/MCA  
COORDINATOR

  
Dr. J. VANITHA  
PROFESSOR/HOD/MCA

  
CONVENER

  
Dr. S. RAMABALAN  
PRINCIPAL, EGSPEC  
ATTESTED  
  
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Nagapattinam (Dt) Tamil Nadu.

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Counselling Code : 3806


## DEPARTMENT OF MCA

VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"

### CERTIFICATE


This is to certify that Mr./Mrs. REVAATH SRI has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from

16.05.2022 TO 21.05.2022


  
Mrs. C. MALLIKA  
ASSOC PROF/MCA  
COORDINATOR

  
Dr. J. VANITHA  
PROFESSOR/HOD/MCA

CONVENER

  
Dr. S. RAMABALAN  
PRINCIPAL, EGSPEC

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

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Counseling Code - 3806


## DEPARTMENT OF MCA

VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"


### CERTIFICATE


This is to certify that Mr./Mrs. SOWMIYA R has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from

16.05.2022 TO 21.05.2022

  
Mrs. C. MALLIKA  
ASSOC PROF/MCA  
COORDINATOR

  
Dr. J. VANITHA  
PROFESSOR/HOD/MCA  
CONVENER

  
Dr. S. RAMABALAN  
PRINCIPAL, EGSPEC  
ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.  
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## DEPARTMENT OF MCA

VALUE ADDED COURSE ON "1704CA411 - COMBINATION ANDROID AND IOS"


### CERTIFICATE


This is to certify that Mr./Mrs. TAMILARASI R has successfully completed value added course on "1704CA411 - COMBINATION ANDROID AND IOS" conducted by Department of MCA E.G.S.Pillay Engineering College, Nagapattinam from

16.05.2022 TO 21.05.2022

  
Mrs. C. MALLIKA  
ASSOC PROF/MCA  
COORDINATOR

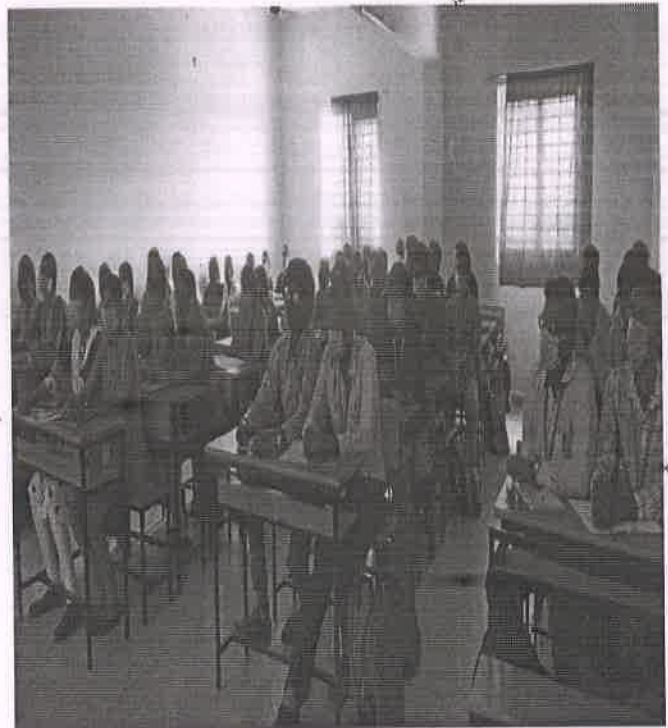
  
Dr. J. VANITHA  
PROFESSOR/HOD/MCA

  
Dr. S. RAMABALAN  
PRINCIPAL, EGSPEC  
ATTESTED

  
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SAMPLE PHOTO



*Handwritten signature in green ink.*

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Ph : 04365-251112 / 251114 | E-mail:enquires@egspec.org | Website : [www.egspec.org](http://www.egspec.org)

**DEPARTMENT OF MCA**

**Value Added Course**

**ON**

**.Net**

**15.10.2021 TO 19.10.2021**



<http://www.egspec.org>

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**Dr. S. RAMABALAN, M.E., Ph.D.,  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**Coordinator(s)**

1. Mrs.A.Hema,M.C.A,M.Phil.,  
Assistant Professor/MCA
2. Mr.S.Selvaganapathy, M.C.A,(Ph.D)  
Assistant Professor/MCA

**E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**[Autonomous]**

**DEPARTMENT OF MCA**

**VALUE ADDED COURSE**

**.Net**

**II MCA [2019-2022]**

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Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

From

Mrs.A.Hema,AP/MCA,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

To

Dr. J.Vanitha,Professor  
HOD/MCA,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

Respected sir,

Sub: Permission for conducting Value Added Course-Reg.

It is requested to conduct one Week Value Added Course on “.Net” for II MCA students. The Course is going to be held on 15<sup>th</sup> October 2021 to 19<sup>th</sup> October 2021. Mr.Vetriselvan, Programmer, EGSPEC, and Nagapattinam handled the session Herewith we enclose the Student Name List, Session Details. Kindly give the permission to Conducting the value Added Course..

Thanking You,

Yours truly

Event Coordinators

**A.HEMA**

Assistant Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
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Nagapattinam (Dt) Tamil Nadu.

## E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

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Approved by UGC with Grade 'A'  
Approved by State Council of Technical Education, Chennai  
Approved by Anna University, Chennai

## DEPARTMENT OF MCA

### ORGANIZE A VALUE ADDED COURSE ON

### .NET Frame Work

Date: 15.10.2021

TO  
19.10.2021

Convener

Mrs. J.Vanitha

Professor/MCA/HOD

Coordinator

1. Mrs. A.Hema AP/MCA

2. Mr. S.Selvaganapathy AP  
/MCA

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002  
Nagapattinam (Dt), Tamil Nadu.

### ABOUT THE INSTITUTION

E G S Pillay Engineering College is one of the pioneering non - grant engineering Colleges in the State. It was established by the E G S Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamilnadu, approval of the All India Council for Technical Education, New Delhi and affiliation to Bharathidasan University, Tiruchirappalli. Its courses are affiliated to Anna University, Chennai from 2002 and the degrees are awarded by Anna University, as per the Government Orders. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non - grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The college approved by AICTE- New Delhi, affiliated to Anna University-

### ABOUT THE DEPARTMENT

The department of computer applications focuses on making industry ready IT professionals by imparting quality computer education along with excellent interpersonal skills. It offers 3 years Full time MCA course to the students. Started in the year of 2001, the course was approved by Bharathidasan University, Trichirappalli. In 2003, Anna University, Chennai recognized and approved the course. The current intake of students is 60 per academic year.

### Objectives

- Understand the Microsoft .NET Framework and ASP.NET page structure
- Design web application with variety of controls
- Access the data using inbuilt data access tools
- Use Microsoft ADO.NET to access data in web Application
- Configure and deploy Web Application
- Develop secured web application

## Summary Report on “.Net”

Microsoft .NET course is a 30 hours course, which covers all the concepts that made .NET probably the most popular Microsoft Framework. Starting from the basics i.e. Framework Architecture, create the first and basic applications. We use ASP.NET and IIS for making the user view and making your Web Application more secure. At the end of the course, we will also create Web Applications and Web Services using MS.NET Framework.

Department of MCA organized a value added course on .Net Programming from 15<sup>th</sup> October 2021 to 19<sup>th</sup> October 2021. Mr. Vetrivelvan Programmer and Mr.S.Selvaganapathy from E.G.S.Pillay Engineering College conducted the course. Total 08 students from MCA were trained in the field of .Net and its related fields. The students learnt important concepts regarding .Net, etc. Microsoft .NET course is a 30 hours course, which covers all the concepts that made .NET probably the most popular Microsoft Framework. Starting from the basics i.e. Framework Architecture, create the first and basic applications.

We use ASP.NET and IIS for making the user view and making your Web Application more secure. At the end of the course, we will also create Web Applications and Web Services using MS.NET Framework .The course would be very much useful from placement point of view since many IT companies are demanding students with advanced technology skill set.



**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

### Session Details:

Date / Session	I Session	II Session	III Session	IV Session
15.10.2021	Inaugural Function	Introduction to .NET Framework, Architecture, Evolution	.NET Versions, .NET Framework Components	Solve the given case study
16.10.2021	Visual Studio Versions, Installation	Components of IDE	Features of Visual Studio IDE	Creating Project
17.10.2021	Solution Using Visual Studio IDE and Shortcuts in IDE.	Ado.NET Architecture and ADO.NET Library, Creating and Establish database connectivity,	Collection, Collection API,	Web Server Control, Available Web Sever controls, Using regular controls
18.10.2021	ASP.NET Specification, Webpage	WebSite, Web Application, WebServers	Theory and Practical TestI-(25)	Theory and Practical Test II-(25)
19.10.2021	Case study	Case Study	Theory and Practical TestIII-(50)	Feed back

  
**Dr. S. RAMABALAN**, M.E., Ph.D.,  
PRINCIPAL  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## **Syllabus**

**.Net**

### **Module I**

Topics -Introduction to .NET Framework, Architecture, Evolution, .NET Versions.

### **Module II**

.NET Framework Components, Visual Studio Versions, Installation, Components of IDE, Features of Visual Studio IDE.

### **Module III**

Creating Project, Solution Using Visual Studio IDE and Shortcuts in IDE.

### **Module IV**

Ado.NET Architecture and ADO.NET Library, Creating and Establish database connectivity.

### **Module V**

ASP.NET Specification, Webpage, WebSite, Web Application, WebServers.

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**




DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS  
VALUE ADDED COURSE

.Net  
II MCA [2019-2022]  
Attendance


S.No	Reg No	Student Name	15.10.2021	16.10.2021	17.10.2021	18.10.2021	19.10.2021
1.	E19CAR002	GAYATHRI K	K.k	K.k	K.k	K.k	K.k
2.	E19CAR003	KALAISELVI T	T.kala	T.kala	T.kala	T.kala	T.kala
3.	E19CAR004	NAVANEETHAKRI SHANAN R	Shan	Shan	Shan	Shan	Shan
4.	E19CAR005	RAGUVARAN R	R.R	R.R	R.R	R.R	R.R
5.	E19CAR006	RANJITH KUMAR	Ranj	Ranj	Ranj	Ranj	Ranj
6.	E19CAR007	SANKARADEVI R	R.s	R.s	R.s	R.s	R.s
7.	E19CAR008	SASI KUMAR D	D.s	D.s	D.s	D.s	D.s
8.	E19CAR009	SASIREHA S	S.s	S.s	S.s	S.s	S.s

  
Course Coordinator

**A.HEMA**  
Assistant Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.

  
HOD /MCA

**Dr.J.VANITHA**  
Head of the Department  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## Module I

### Introduction to .NET Framework

.NET is a software framework which is designed and developed by Microsoft. The first version of the .Net framework was 1.0 which came in the year 2002. In easy words, it is a virtual machine for compiling and executing programs written in different languages like C#, VB.Net etc.


It is used to develop Form-based applications, Web-based applications, and Web services. There is a variety of programming languages available on the .Net platform, VB.Net and C# being the most common ones. It is used to build applications for Windows, phone, web, etc. It provides a lot of functionalities and also supports industry standards.

.NET Framework supports more than 60 programming languages in which 11 programming languages are designed and developed by Microsoft. The remaining Non-Microsoft Languages which are supported by .NET Framework but not designed and developed by Microsoft.

#### Main Components of .NET Framework

Common Language Runtime(CLR): CLR is the basic and Virtual Machine component of the .NET Framework. It is the run-time environment in the .NET Framework that runs the codes and helps in making the development process easier by providing the various services such as remoting, thread management, type-safety, memory management, robustness, etc.. Basically, it is responsible for managing the execution of .NET programs regardless of any .NET programming language. It also helps in the management of code, as code that targets the runtime is known as the Managed Code and code doesn't target to runtime is known as Unmanaged code.

Framework Class Library(FCL): It is the collection of reusable, object-oriented class libraries and methods, etc that can be integrated with CLR. Also called the Assemblies. It is just like the header files in C/C++ and packages in the java. Installing .NET framework basically is the installation of CLR and FCL into the system. Below is the overview of .NET Framework

  
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## .NET FRAMEWORK 4.5.1

Windows Server versions	<input checked="" type="checkbox"/> 2012 R2 <input type="checkbox"/> 2012 <input type="checkbox"/> 2008 R2 SP1 <input type="checkbox"/> 2008 SP2
To determine installed .NET version	Use Release DWORD:  - 378675 (Windows 8.1) - 378758 (all other)  (See <a href="#">instructions</a> )

## .NET Framework 4.5

[New features](#)

[Release notes](#)

## .NET FRAMEWORK 4.5

CLR version	4
Included in Visual Studio version	2012
Windows versions	<input type="checkbox"/> 8 <input type="checkbox"/> 7 <input type="checkbox"/> Vista
Windows Server versions	<input type="checkbox"/> 2012 <input type="checkbox"/> 2008 R2 SP1 <input type="checkbox"/> 2008 SP2
To determine installed .NET version	Use Release DWORD 378389  (See <a href="#">instructions</a> )

## .NET Framework 4

[New features](#)

## .NET FRAMEWORK 4

CLR version	4
Included in Visual Studio version	2010
Windows versions	<input type="checkbox"/> 7 <input type="checkbox"/> Vista
Windows Server versions	<input type="checkbox"/> 2008 R2 SP1 <input type="checkbox"/> 2008 SP2 <input type="checkbox"/> 2003
To determine installed .NET version	See <a href="#">instructions</a>

## .NET Framework 3.5

[New features:](#)

LINQ


Expression trees

Improved ASP.NET support for AJAX development

HashSet collections

DateTimeOffset

WCF and WF integration

  
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Output Window: Here the Visual Studio shows the outputs, compiler warnings, error messages and debugging information.

Solution Explorer: It shows the files on which the user is currently working.

Properties: It will give additional information and context about the selected parts of the current project.

A user can also add windows as per requirement by choosing them from View menu. In Visual Studio the tool windows are customizable as a user can add more windows, remove the existing open one or can move windows around to best suit.

Various Menus in Visual Studio: A user can find a lot of menus on the top screen of Visual Studio as shown below

Create, Open and save projects commands are contained by File menu.

Searching, Modifying, Refactoring code commands are contained by the Edit menu.

View Menu is used to open the additional tool windows in Visual Studio.

Project menu is used to add some files and dependencies in the project.

To change the settings, add functionality to Visual Studio via extensions, and access various Visual Studio tools can be used by using Tools menu.

The below menu is known as the toolbar which provide the quick access to the most frequently used commands. You can add and remove the commands by going to View → Customize

Support for different programming languages in Visual Studio is added by using a special VSPackage which is known as *Language Service*.

When you will install the Visual Studio then the functionality which is coded as VSPackage will be available as Service.

Visual Studio IDE provides the three different types of services known as SVsSolution, SVsUIShell, and SVsShell.

SVsSolution service is used to provide the functionality to enumerate solutions and projects in Visual Studio.

SVsUIShell service is used to provide User Interface functionality like toolbars, tabs etc.

SvsShell service is used to deal with the registration of VSPackages.

Each version of .NET Framework contains the common language runtime (CLR), the base class libraries, and other managed libraries. This article describes the key features of .NET Framework by version, provides information about the underlying CLR versions and associated development environments, and identifies the versions that are installed by the Windows operating system (OS).

Each new version of .NET Framework adds new features but retains features from previous versions. .NET Framework 4.8 is the last version of .NET Framework, and no further versions will be released.

However, .NET Framework will continue to be serviced with monthly security and reliability bug fixes. Additionally, it will continue to be included with Windows, with no plans to remove it. You don't need to migrate your .NET Framework apps, but for new development, use .NET 5.0 or later.

The CLR is identified by its own version number. The .NET Framework version number is incremented at each release, but the CLR version is not always incremented. For example, .NET Framework 4, 4.5, and later releases include CLR 4, but .NET Framework 2.0, 3.0, and 3.5 include CLR 2.0. (There was no version 3 of the CLR.)

Tip

For a complete list of supported operating systems, see System requirements.

For downloads, see Install .NET Framework for developers.

For information about determining which versions of .NET Framework are installed on a computer, see How to determine which .NET Framework versions are installed.

Version information

The tables that follow summarize .NET Framework version history and correlate each version with Visual Studio, Windows, and Windows Server. Visual Studio supports multi-targeting, so you're not limited to the version of .NET Framework that's listed.

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Release notes

**.NET FRAMEWORK 4.6.2**

CLR version	4
Windows versions	<input checked="" type="checkbox"/> <input type="checkbox"/> 10 Anniversary Update (Version 1607) <input type="checkbox"/> 10 November Update (Version 1511) <input type="checkbox"/> 10 <input type="checkbox"/> 8.1 <input type="checkbox"/> 7
Windows Server versions	<input checked="" type="checkbox"/> <input type="checkbox"/> 2016  <input type="checkbox"/> 2012 R2 <input type="checkbox"/> 2012 <input type="checkbox"/> 2008 R2 SP1
To determine installed .NET version	Use Release DWORD:  - 394802 (Windows 10 Anniversary Update and Windows Server 2016) - 394806 (all other OS versions)  (See <u>instructions</u> )

**.NET Framework 4.6.1**

New features

Release notes

**.NET FRAMEWORK 4.6.1**

CLR version	4
Included in Visual Studio version	2017 <sup>1</sup>
Windows versions	<input checked="" type="checkbox"/> <input type="checkbox"/> 10 November Update (Version 1511) <input type="checkbox"/> 10 <input type="checkbox"/> 8.1 <input type="checkbox"/> 8 <input type="checkbox"/> 7
Windows Server versions	<input type="checkbox"/> 2012 R2 <input type="checkbox"/> 2012 <input type="checkbox"/> 2008 R2 SP1
To determine installed .NET version	Use Release DWORD:  - 394254 (Windows 10 November Update) - 394271 (all other OS versions)  (See <u>instructions</u> )

  
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<sup>1</sup> Requires installing the .NET desktop development, ASP.NET and web development, Azure development, Office/SharePoint development, Mobile development with .NET, or .NET Core cross-platform development workloads.

**.NET Framework 4.6**

New features

Release notes

**.NET FRAMEWORK 4.6**

## .NET FRAMEWORK 2.0

Included in Visual Studio version	2005
Windows versions	N/A
Windows Server versions	<input type="checkbox"/> 2008 R2 SP1 <input type="checkbox"/> 2008 SP2 <input type="checkbox"/> 2003
To determine installed .NET version	See <a href="#">instructions</a>

.NET Framework 1.1

New features:

ASP.NET mobile controls

Side-by-side execution

IPv6 support

## .NET FRAMEWORK 1.1

CLR version	1.1
Included in Visual Studio version	2003
Windows versions	N/A
Windows Server versions	<input type="checkbox"/> 2003
To determine installed .NET version	See <a href="#">instructions</a>

.NET Framework 1.0

## .NET FRAMEWORK 1.0

CLR version	1.0
Included in Visual Studio version	Visual Studio .NET
Windows versions	N/A
Windows Server versions	N/A
To determine installed .NET version	See <a href="#">instructions</a>

.NET Framework must be enabled on this operating system through [Control Panel](#) (for Windows) or [the Server Manager](#) (for Windows Server).

In general, you should not uninstall any versions of .NET Framework that are installed on your computer, because an application you use may depend on a specific version and may break if that version is removed. You can load multiple versions of .NET Framework on a single computer at the same time. This means that you can install .NET Framework without having to uninstall previous versions. For more information, see [Getting Started](#).

Remarks for version 4.5 and later

.NET Framework 4.5 is an in-place update that replaces .NET Framework 4 on your computer, and similarly, .NET Framework 4.5.1, 4.5.2, 4.6, 4.6.1, 4.6.2, 4.7, 4.7.1, 4.7.2, and 4.8 are in-place updates to .NET Framework 4.5. In-place update means that they use the same runtime version, but the assembly versions are updated and include new types and members. After you install one of these updates, your .NET Framework 4, .NET Framework 4.5, .NET Framework 4.6, or .NET Framework 4.7 apps should continue to run without requiring recompilation. However, the reverse is not true. We do not recommend running apps that target a later version of .NET Framework on an earlier version. For example, we do not recommend that you run an app that targets .NET Framework 4.6 on .NET Framework 4.5.

The following guidelines apply:

In Visual Studio, you can choose .NET Framework 4.5 as the target framework for a project (this sets the [GetReferenceAssemblyPaths.TargetFrameworkMoniker](#) property) to compile the project as a .NET Framework 4.5 assembly or executable. This assembly or executable can then be used on any

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computer that has the .NET Framework 4.5, 4.5.1, 4.5.2, 4.6, 4.6.1, 4.6.2, 4.7, 4.7.1, 4.7.2, or 4.8 installed.

In Visual Studio, you can choose .NET Framework 4.5.1 as the target framework for a project to compile it as a .NET Framework 4.5.1 assembly or executable. Only run this assembly or executable on computers that have .NET Framework 4.5.1 or later installed. An executable that targets .NET Framework 4.5.1 will be blocked from running on a computer that only has an earlier version of .NET Framework, such as .NET Framework 4.5, installed. The user will be prompted to install .NET Framework 4.5.1. In addition, .NET Framework 4.5.1 assemblies should not be called from an app that targets an earlier version of .NET Framework, such as .NET Framework 4.5.

#### Note

.NET Framework 4.5.1 and .NET Framework 4.5 are used here only as examples. The principle described applies to any app that targets a later version of .NET Framework than the one installed on the system on which it's running.


Some changes in .NET Framework may require changes to your app code; see [Application Compatibility](#) before you run your existing apps with .NET Framework 4.5 or later versions. For more information about installing the current version, see [Install the .NET Framework for developers](#). For information about support for the .NET Framework, see [.NET Framework official support policy](#) on the .NET website.

#### Remarks for older versions

.NET Framework versions 2.0, 3.0, and 3.5 are built with the same version of the CLR (CLR 2.0). These versions represent successive layers of a single installation. Each version is built incrementally on top of the earlier versions. It's not possible to run versions 2.0, 3.0, and 3.5 side by side on a computer.

When you install version 3.5, you get the 2.0 and 3.0 layers automatically, and apps that were built for versions 2.0, 3.0, and 3.5 can all run on version 3.5. However, .NET Framework 4 ends this layering approach, and it and later releases (.NET Framework 4.5, 4.5.1, 4.5.2, 4.6, 4.6.1, 4.6.2, 4.7, 4.7.1, 4.7.2, and 4.8) also represent successive layers of a single installation. Starting with .NET Framework 4, you can use in-process, side by side hosting to run multiple versions of the CLR in a single process. For more information, see [Assemblies and Side-by-Side Execution](#).

In addition, if your app targets version 2.0, 3.0, or 3.5, your users may be required to enable .NET Framework 3.5 on a Windows 8, Windows 8.1, or Windows 10 computer before they can run your app. For more information, see [Install the .NET Framework 3.5 on Windows 10, Windows 8.1, and Windows 8](#).

  
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II MCA\ IV Semester [2019-2022]

Test I-25 Marks

ASP.NET Multiple Choice Questions :-

1. Choose the form in which Postback occur

- A. HTMLForms
- B. Webforms
- C. Winforms

Ans: Webforms

2. Web.config file is used...

- A. Configures the time that the server-side codebehind module is called
- B. To store the global information and variable definitions for the application
- C. To configure the web server
- D. To configure the web browser

3. Which of the following object is not an ASPcomponent?

- A. LinkCounter
- B. Counter
- C. AdRotator
- D. File Access

Ans: LinkCounter

4. The first event triggers in an aspx page is.

- A. Page\_Init()
- B. Page\_Load()
- C. Page\_click()

Ans: Page\_Init()

5. Difference between Response.Write() and Response.Output.Write().

- A. Response.Output.Write() allows you to buffer output
  - B. Response.Output.Write() allows you to write formatted output
  - C. Response.Output.Write() allows you to flush output
  - D. Response.Output.Write() allows you to stream output
- Ans: Response.Output.Write() allows you to write formatted output

6. Which of the following method must be overridden in a custom control?

- A. The Paint() method
- B. The Control\_Build() method
- C. The default constructor
- D. The Render() method

Ans: The Render() method

7. How do we create a FileSystemObject?

- A. Server.CreateObject("Scripting.FileSystemObject")
- B. Create("FileSystemObject")
- C. Create Object:"Scripting.FileSystemObject"

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B. Implement application and session level events

C. No use

Ans: Implement application and session level events

17. Which of the following is not a member of ADODBCommand object?

A. ExecuteScalar B. ExecuteStream C. Open D. ExecuteReader Ans: Open

18. Which DLL translate XML to SQL in IIS?

A. SQLISAPI.dll B. SQLXML.dll C. LISXML.dll D. SQLIIS.dll

Ans: SQLISAPI.dll

19. Default Session data is stored in ASP.Net.

A. StateServer B. Session Object C. InProcess D. all of the above

Ans: InProcess

20. Default scripting language in ASP.

A. EcmaScript B. VBScript C. PERL D. JavaScript

Ans: VBScript

21. How do you get information from a form that is submitted using the "post" method?

A. Request.QueryString B. Request.Form C. Response.write D. Response.writeIn

Ans: Request.Form

22. Which object can help you maintain data across users?

A. Application object B. Session object C. Response object D. Server object

Ans: Application object

23. Which of the following ASP.NET object encapsulates the state of the client?

A. Session object B. Application object C. Response object D. Server object

Ans: Session object

24. Which of the following object is used along with application object in order to ensure that only one process accesses a variable at a time?

A. Synchronize B. Synchronize() C. ThreadLock D. Lock()

Ans: Synchronize()

25. Which of the following control is used to validate that two fields are equal?

A. RegularExpressionValidator

B. CompareValidator

C. equals() method

D. RequiredFieldValidator

Ans: CompareValidator

26. Mode of storing ASP.NET session

A. InProc

B. StateServer

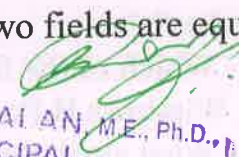
C. SQL Server

D. All of the above

Ans: All of the above

27. Which of the following is not the way to maintain state?

A. View state

  
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A. Page.User.Identity B. Page.User.IsInRole C. Page.User.Name  
D. None of the Above Ans: Page.User.Identity

43. Find the term: The .NET framework which provides automatic memory management using a technique called \_\_\_\_\_ ?

A. Serialization B. Garbage Collection C. Assemblies D. Overriding  
Ans: Garbage Collection

44. Which of the following denote ways to manage state in an ASP.Net Application?

A. Session objects B. Application objects C. ViewState D. All the Above  
Ans: All the Above

45. What is the base class from which all Web forms inherit?

A. Master Page B. Page Class C. Session Class D. None of the Above  
Ans: Page Class

46. WSDL stands for \_\_\_\_\_ ?

A. Web Server Description Language B. Web Server Descriptor Language  
C. Web Services Description Language D. Web Services Descriptor Language  
Ans: Web Services Description Language

47. Which of the following must be done in order to connect data from some data resource to Repeater control?

A. Set the DataSource property  
B. Call the DataBind method  
C. Both A. and B.  
D. None of the Above

Ans: Both A. and B.

48. Which of the following is FALSE?

A. ASP.NET applications run without a Web Server  
B. ASP+ and ASP.NET refer to the same thing  
C. ASP.NET is a major upgrade over ASP D. None of the Above

Ans: None of the Above

49. Which of the following transfer execution directly to another page?

A. Server.Transfer  
B. Response.Redirect  
C. Both A. and B.  
D. None of the Above

Ans: Server.Transfer

50. If one has two different web form controls in a application and if one wanted to know whether the values in the above two different web form control match what control must be used?

A. DataList  
B. GridView  
C. CompareValidator  
D. Listview

Ans: CompareValidator

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- B. Response.Output.Write() C. Both A. and B.  
D. None of the Above

Ans: Response.Output.Write()

59. Which of the following denote the property in every validation control?

- A. ControlToValidate property  
B. Text property  
C. Both A. and B.  
D. None of the Above

Ans: Both A. and B.

60. How many classes can a single .NET DLL contain?

- A. One B. Two C. None D. Many

Ans: Many

61. Suppose one wants to modify a SOAP message in a SOAP extension then how this can be achieved. Choose the correct option from below:

- A. One must override the method ReceiveMessage  
B. One must override the method InitializeMethod  
C. Both A. and B.  
D. One must override the method ProcessMessage

Ans: One must override the method ReceiveMessage

62. Which of the following can be used to add alternating color scheme in a Repeater control?

- A. AlternatingItemTemplate  
B. DataSource  
C. ColorValidator  
D. None of the Above

Ans: AlternatingItemTemplate

63. Suppose a .NET programmer wants to convert an object into a stream of bytes then the process is called

\_\_\_\_\_ ?

- A. Serialization  
B. Threading  
C. RCW  
D. AppDomain


Ans: Serialization

64. The technique that allow code to make function calls to .NET applications on other processes and on other machines is

- A. .NET Threading B. .NET Remoting C. .NET RMT  
D. None of the above

Ans: .NET Threading

65. The namespace within the Microsoft .NET framework which provides the functionality to implement transaction processing is .....

  
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D. A and B

Ans: D

72. When an .aspx page is requested from the web server, the out put will be rendered to browser in following format.

A. HTML

B. XML

C. WML

D. JSP

Ans: A

73. The Asp.net server control, which provides an alternative way of displaying text on web page, is

A. < asp:label >

B. < asp:listitem >

C. < asp:button >

Ans: A

74. The first event to be triggered in an aspx page is.

A. Page\_Load()

B. Page\_Init()

C. Page\_click()

Ans: B

75. Postback occurs in which of the following forms.

A. Winforms

B. HTMLForms

C. Webforms

Ans: C

76. What namespace does the Web page belong in the .NET Framework class hierarchy?

A. System.web.UI.Page

B. System.Windows.Page

C. System.Web.page

Ans: A

77. Which method do you invoke on the Data Adapter control to load your generated dataset?

A. Fill()

B. ExecuteQuery()

C. Read()

Ans: A

78. How do you register a user control?

A. Add Tag prefix, Tag name

B. Add Source, Tag prefix

C. Add Src, Tagprefix, Tagname

Ans: C

79. Which of the following is true?

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Ans: A

87. Which of the following is true?

- A. IsPostBack is a method of System.UI.Web.Page class
- B. IsPostBack is a method of System.Web.UI.Page class
- C. IsPostBack is a readonly property of System.Web.UI.Page class

Ans: B

88. The number of forms that can be added to a aspx page is.

- A. 1
- B. 2
- C. 3
- D. More than 3

Ans: C

89. How do you manage states in asp.net application

- A. Session Objects
- B. Application Objects
- C. Viewstate
- D. All of the above

Ans: A

90. Which property of the session object is used to set the local identifier?

- A. SessionId
- B. LCID
- C. Item
- D. Key

Ans: D

91. Select the caching type supported by ASP.Net

- A. Output Caching
- B. DataCaching
- C. a and b
- D. none of the above

Ans: B

92. Where is the default Session data is stored in ASP.Net?

- A. InProcess
- B. StateServer
- C. Session Object
- D. al of the above

Ans: C

93. Select the type Processing model that asp.net simulate

- A. Event-driven
- B. Static
- C. Linear
- D. Topdown

Ans: A

  
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**Test I-25 Marks**

**Answer all the questions**

1. Choose the form in which Postback occur
  - A. HTMLForms
  - B. Webforms
  - C. Winforms
2. Web.config file is used...
  - A. Configures the time that the server-side codebehind module is called
  - B. To store the global information and variable definitions for the application
  - C. To configure the web server
  - D. To configure the web browser
3. Which of the following object is not an ASPcomponent?
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  - B. Counter
  - C. AdRotator
  - D. File Access
4. The first event triggers in an aspx page is.
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  - B. Page\_Load()
  - C. Page\_click()
5. Difference between Response.Write()  
andResponse.Output.Write().
  - A. Response.Output.Write() allows you to buffer output
  - B. Response.Output.Write() allows you to write formatted output
  - C. Response.Output.Write() allows you to flush output
  - D. Response.Output.Write() allows you to stream output
6. Which of the following method must be overridden in a custom control?
  - A. The Paint() method
  - B. The Control\_Build() method
  - C. The default constructor
  - D. The Render() method
7. How do we create a FileSystemObject?
  - A. Server.CreateObject("Scripting.FileSystemObject")
  - B. Create("FileSystemObject")
  - C. Create Object:"Scripting.FileSystemObject"
  - D. Server.CreateObject("FileSystemObject")
8. Which of the following tool is used to manage the GAC?
  - A. RegSvr.exe
  - B. GacUtil.exe
  - C. GacSvr32.exe D. GacMgr.exe

  
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- A. Request.QueryString B. Request.Form C. Response.write D. Response.writeIn
22. Which object can help you maintain data across users?  
A. Application object B. Session object C. Response object D. Server object
23. Which of the following ASP.NET object encapsulates the state of the client?  
A. Session object B. Application object C. Response object D. Server object
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A. Synchronize B. Synchronize() C. ThreadLock D. Lock()
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C. equals() method  
D. RequiredFieldValidator



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**Test I-25 Marks**

S.No	Reg No	Student Name	Marks [25]
1	E19CAR002	GAYATHRI K	24
2	E19CAR003	KALAISELVI T	23
3	E19CAR004	NAVANEETHAKRISHANAN R	22
4	E19CAR005	RAGUVARAN R	23
5	E19CAR006	RANJITH KUMAR	22
6	E19CAR007	SANKARADEVI R	24
7	E19CAR008	SASI KUMAR D	21
8	E19CAR009	SASIREHA S	24

  
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**A. HEMA**  
Assistant Professor  
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**Dr. J. VANITHA**  
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**II MCA\ IV Semester [2019-2022]**

**Test II-25 Marks**

**Answer all the questions**

1. Mode of storing ASP.NET session
  - A. InProc
  - B. StateServer
  - C. SQL Server
  - D. All of the above
2. Which of the following is not the way to maintain state?
  - A. View state
  - B. Cookies
  - C. Hidden fields
  - D. Request object
28. You can have only one Global.asax file per project. A. Yes B. No
3. \_\_\_\_\_ element in the web.config file to run code using the permissions of a specific user
  - A. < credential> element
  - B. < authentication> element
  - C. < authorization> element
  - D. < identity> element
4. \_\_\_\_\_ is a special subfolder within the windows folder that stores the shared .NET component. A. /bin B. GAC C. Root Ans: GAC
5. Which of the following is the performance attributes of processModel?
  - A. requestQueue limit
  - B. maxWorkerThreads
  - C. maxIdThreads
  - D. All
6. Which of the following is faster and consume lesser memory?
  - A. SqlDataReader
  - B. Data Set
7. Which of the following is the way to monitor the web application?
  - A. MMC Event viewers
  - B. Performance logs
  - C. Alerts Snap-ins
  - D. All
8. The \_\_\_\_\_ property affects how the .Net Framework handles dates, currencies, sorting and formatting issues.
  - A. CurrentUICulture
  - B. CurrentCulture
9. Where do we include the user lists for windows authentication?
  - A. < Credential>
  - B. < authorization>
  - C. < identity>
  - D. < authentication>
10. Where do we include the user lists for Form authentication?
  - A. < credential>
  - B. < authorization>
  - C. < Identity>
  - D. < authentication>
11. Which of the following authentication is best suited for a corporate network?
  - A. Windows
  - B. Form
  - C. User
  - D. All
12. What attributes do you use to hide a public .Net class from COM?
  - A. DLLImport Attributes
  - B. ComVisible attributes
  - C. COM Interop
  - D. All
13. By default, code written with the Debug class is stripped out of release builds. A. Yes B. No
14. \_\_\_\_\_ tests make sure that new code does not break existing code.

  
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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**  
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**Test II-25 Marks**


S.No	Reg No	Student Name	Marks [25]
1	E19CAR002	GAYATHRI K	23
2	E19CAR003	KALAISELVI T	24
3	E19CAR004	NAVANEETHAKRISHANAN R	21
4	E19CAR005	RAGUVARAN R	22
5	E19CAR006	RANJITH KUMAR	23
6	E19CAR007	SANKARADEVI R	23
7	E19CAR008	SASI KUMAR D	20
8	E19CAR009	SASIREHA S	24

  
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**II MCA\ IV Semester [2019-2022]**

**Final Evaluation-50 Marks**

**Answer all the questions**

1. In my .NET Framework I have threads. Which of the following denote the possible priority level for the threads?
  - A. Normal
  - B. AboveNormal
  - C. Highest
  - D. All the Above
2. In .NET the operation of reading metadata and using its contents is known as ?
  - A. Reflection
  - B. Enumeration
  - C. Binding
  - D. Serialization
3. In ASP.NET the < authorization > section contain which of the following elements?
  - A. < deny > B. < allow >
  - C. Both A. and B.
  - D. None of the Above
4. The type of code found in Code-Behind class is \_\_\_\_\_ ?
  - A. Server-side code B. Client-side code C. Both A. and B.
  - D. None of the above
5. Common type system is built into which of the following:
  - A. CLR B. RCT C. RCW D. GAC
6. The actual work process of ASP.NET is taken care by \_\_\_\_\_ ?
  - A. inetinfo.exe
  - B. aspnet\_isapi.dll
  - C. aspnet\_wp.exe
  - D. None of the Above
7. Which of the following allow writing formatted output?
  - A. Response.Write()
  - B. Response.Output.Write() C. Both A. and B.
  - D. None of the Above
8. Which of the following denote the property in every validation control?
  - A. ControlToValidate property
  - B. Text property
  - C. Both A. and B.
  - D. None of the Above
9. How many classes can a single .NET DLL contain?

  
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- A. Set AutoGenerateColumns Property to false on the datagrid tag  
B. Set AutoGenerateColumns Property to true on the datagrid tag  
C. It is not possible to do the operation  
D. Set AutomauanalColumns Property to true on the datagrid ta
17. Which method do you invoke on the DataAdapter control to load your generated dataset with data?  
A. Load ()  
B. Fill()  
C. DataList  
D. DataBind
18. In ASP.NET the sessions can be dumped by using  
A. Session.Dump  
B. Session.Abandon  
C. Session.Exit  
D. None of the Above
19. Which of the following languages can be used to write server side scripting in ASP.NET?  
A. C-sharp  
B. VB  
C. C++  
D. A and B
20. When an .aspx page is requested from the web server, the out put will be rendered to browser in following format.  
A. HTML  
B. XML  
C. WML  
D. JSP
21. The Asp.net server control, which provides an alternative way of displaying text on web page, is  
A. < asp:label >  
B. < asp:listitem >  
C. < asp:button >
22. The first event to be triggered in an aspx page is.  
A. Page\_Load()  
B. Page\_Init()  
C. Page\_click()
23. Postback occurs in which of the following forms.  
A. Winforms  
B. HTMLForms  
C. Webforms
24. What namespace does the Web page belong in the .NET Framework class hierarchy?  
A. System.web.UI.Page  
B. System.Windows.Page



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**STUDENT FEEDBACK**

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

S.No	Criteria	Rating				
		Excellent	Very good	Good	Fair	Satisfactory
1	Course content			✓		
2	Skill development		✓			
3	Motivation	✓				
4	Regularity and punctuality of teacher	✓				
5	Coverage of syllabus		✓			
6	Interaction		✓			
7	Individual attention		✓			
8	Outcome		✓			
9	Other suggestions					

1. Satisfactory

2. Fair

3. Good

4. Very Good

5. Excellent

  
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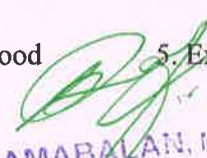
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## DEPARTMENT OF MCA VALUE ADDED COURSE ON "1704CA410.NET" CERTIFICATE

This is certify that Mr. SASIKUMAR D(EI9CAR008) of II MCA has Attended Value Added Course on "1704CA401.NET" from 15.10.2021 to 19.10.2021 and completed he course successfully

  
\_\_\_\_\_

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Mr.S.SELVAGANAPATHY AR/MCA

COORDINATOR

  
\_\_\_\_\_

Dr.J.VANITHA

PROFESSOR/HOD/MCA

CONVENER

  
\_\_\_\_\_

Dr.S.RAMABALAN  
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Mr.S.SELVAGANAPATHY AP/MCA

COORDINATOR

  
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Dr.J.VANITHA

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