

# Link the tab layout for each course

ContentFragment.java

```
package com.example.examdetailes;
import android.os.Bundle;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import java.sql.Array;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
/**
 * A simple {@link Fragment} subclass.
 */
public class ContentFragment extends Fragment {
    String course_name;
    public ContentFragment(String course_name) {
        // Required empty public constructor
        this.course_name = course_name;
    }
    @Override
    public void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        String cont = course_name+"_contents";
        int cont_arr_id = getResources().getIdentifier(cont, "array",
getActivity().getPackageName());
        View view = inflater.inflate(R.layout.fragment_content, container, false);
        String[] content_string = getResources().getStringArray(cont_arr_id);
        ListView listView = (ListView) view.findViewById(R.id.list_view);
        ArrayAdapter<String> listViewAdapter = new ArrayAdapter<>(
            getActivity(),
            R.layout.list_item,
            content_string
        );
        listView.setAdapter(listViewAdapter);
        return view;
    }
}
```

CourseList.java

```
package com.example.examdetailes;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.Arrays;
public class CourseList extends AppCompatActivity {
    private ArrayList<String> arrayList;
    private ArrayAdapter<String> arrayAdapter;
```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_course_list);
    ListView listView = (ListView) findViewById(R.id.main_course_list);
    String[] items = {"Mobile Application Development", "Cloud Services
Application", "Computational Intelligence"};
    ArrayList = new ArrayList<>(Arrays.asList(items));
    arrayAdapter = new ArrayAdapter<String>(this, R.layout.list_item1,
R.id.textView1, arrayList);
    listView.setAdapter(arrayAdapter);
    listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> parent, View view, int position,
long id) {
            // Toast toast = Toast.makeText(getApplicationContext(),
Integer.toString(position), Toast.LENGTH_LONG);
            // toast.show();
            Intent sendInt = new Intent(CourseList.this, MainActivity.class);
            if(position == 0) {
                // Log.d(Integer.toString(position), null);
                sendInt.putExtra("course_name", "MAD");
            }else if(position == 1) {
                sendInt.putExtra("course_name", "CSA");
            }else if(position == 2) {
                sendInt.putExtra("course_name", "CI");
            }
            startActivity(sendInt);
        }
    });
}
}

```

### ExamFragment.java

```

package com.example.examdetails;
import android.os.Bundle;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
/**
 * A simple {@link Fragment} subclass.
 */
public class ExamFragment extends Fragment {
    private static final String ARG_PARAM1 = "param1";
    private int mParam1;
    public ExamFragment() {
        // Required empty public constructor
    }
    @Override
    public void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_exam, container, false);
    }
}

```

### ListViewAdapter.java

```

package com.example.examdetails;

```

```

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.TextView;
import java.util.ArrayList;
public class ListViewAdapter extends BaseAdapter {
    private LayoutInflater inflater;
    private ArrayList<Practical> practical_list;
    private Context context;
    private class ViewHolder {
        TextView practical_title_view;
        TextView practical_description_view;
    }
    public ListViewAdapter(Context context, ArrayList<Practical> practical_list) {
        super();
        inflater = LayoutInflater.from(context);
        this.context = context;
        this.practical_list = practical_list;
    }
    @Override
    public int getCount() {
        return practical_list.size();
    }
    @Override
    public Object getItem(int position) {
        return practical_list.get(position);
    }
    @Override
    public long getItemId(int position) {
        return position;
    }
    @Override
    public View getView(int position, View convertView, ViewGroup parent) {
        ViewHolder viewHolder = null;
        if(convertView == null) {
            viewHolder = new ViewHolder();
            convertView = inflater.inflate(R.layout.practical_list_view, null);
            viewHolder.practical_title_view = (TextView)
convertView.findViewById(R.id.practical_title);
            viewHolder.practical_description_view =
                (TextView) convertView.findViewById(R.id.practical_description);
            convertView.setTag(viewHolder);
        } else {
            viewHolder = (ViewHolder) convertView.getTag();
        }

        viewHolder.practical_title_view.setText(practical_list.get(position).getTitle());
        viewHolder.practical_description_view.setText(practical_list.get(position).getDescription());
        return convertView;
    }
}

```

## MainActivity.java

```

package com.example.examdetails;
import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;
import androidx.viewpager.widget.ViewPager;
import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.widget.Toolbar;

```

```

import com.google.android.material.tabs.TabLayout;
public class MainActivity extends AppCompatActivity {
    private TabLayout tabLayout;
    private Toolbar toolbar;
    private ViewPager viewPager;
    private Toolbar supportActionBar;
    @RequiresApi(api = Build.VERSION_CODES.LOLLIPOP)
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        String course_name = getIntent().getStringExtra("course_name");
        tabLayout = (TabLayout) findViewById(R.id.tablayout);
        viewPager = (ViewPager) findViewById(R.id.myViewPager);
        setUpViewPager(viewPager, course_name);
        tabLayout.setupWithViewPager(viewPager);
    }
    private void setUpViewPager(ViewPager viewPager, String course_name) {
        ViewPagerAdapter viewPagerAdapter = new
ViewPagerAdapter(getSupportFragmentManager());
        viewPagerAdapter.addFragment(new ExamFragment(), "EXAM");
        viewPagerAdapter.addFragment(new ContentFragment(course_name), "CONTENT");
        viewPagerAdapter.addFragment(new PracticalFragment(course_name), "PRACTICAL");
        viewPager.setAdapter(viewPagerAdapter);
    }
}

```

#### Practical.java

```

package com.example.examdetails;
public class Practical {
    private String title, description;
    public Practical(String title, String description) {
        this.title = title;
        this.description = description;
    }
    public String getTitle() {
        return this.title;
    }
    public String getDescription() {
        return this.description;
    }
}

```

#### PracticalFragment.java

```

package com.example.examdetails;
import android.os.Bundle;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ListView;
import java.util.ArrayList;
/**
 * A simple {@link Fragment} subclass.
 */
public class PracticalFragment extends Fragment {
    String course_n;
    public PracticalFragment() {
        // Required empty public constructor
    }
    public PracticalFragment(String course_name) {
        this.course_n = course_name;
    }
}

```

```

    public static PracticalFragment newInstance(String course_name) {
        PracticalFragment fragment = new PracticalFragment(course_name);
        return fragment;
    }
    @Override
    public void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        View view = inflater.inflate(R.layout.fragment_practical, container, false);
        ListView practical_list_view;
        ArrayList<Practical> practical_list = new ArrayList<>();
        String prac = course_n+"_practicals";
        int prac_arr_id = getResources().getIdentifier(prac, "array",
getActivity().getPackageName());
        practical_list_view = (ListView) view.findViewById(R.id.practical_list_view);
        String[] practical_strings = getResources().getStringArray(prac_arr_id);
        for(int i = 0; i < practical_strings.length; i += 2) {
            practical_list.add(new Practical(practical_strings[i],
practical_strings[i+1]));
        }
        ListViewAdapter listViewAdapter = new ListViewAdapter(
            getActivity().getApplicationContext(),
            practical_list
        );
        practical_list_view.setAdapter(listViewAdapter);
        return view;
    }
}

```

### ViewPagerAdapter.java

```

package com.example.examdetails;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentPagerAdapter;
import java.util.ArrayList;
public class ViewPagerAdapter extends FragmentPagerAdapter {
    private final ArrayList<Fragment> fragmentList = new ArrayList<>();
    private final ArrayList<String> fragmentTitleList = new ArrayList<>();
    public ViewPagerAdapter(FragmentManager fm) {
        super(fm);
    }
    @Override
    public Fragment getItem(int position) {
        return fragmentList.get(position);
    }
    @Override
    public int getCount() {
        return fragmentList.size();
    }
    public void addFragment(Fragment fragment, String fragmentTitle) {
        fragmentList.add(fragment);
        fragmentTitleList.add(fragmentTitle);
    }
    public String getFragmentTitle(int position) {
        return fragmentTitleList.get(position);
    }
    @Nullable
    @Override
    public CharSequence getPageTitle(int position) {

```

```

        return fragmentTitleList.get(position);
    }
    //    public String getPageTitle(int pos)
}

```

#### activity\_course\_list.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background_dark"
    tools:context=".CourseList">
    <ListView
        android:id="@+id/main_course_list"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="@color/background_dark"
        android:paddingTop="5dp"
        android:layout_marginTop="50dp"
        android:dividerHeight="1dp"
        android:divider="@color/text_color_dark"
        tools:layout_editor_absoluteX="1dp"
        tools:layout_editor_absoluteY="1dp" />
</LinearLayout>

```

#### activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:background="@color/background_dark"
        android:layout_height="wrap_content">
        <TextView
            android:textColor="@color/text_color_dark"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="@string/app_name"
            android:minHeight="?actionBarSize"
            android:textAppearance="@style/TextAppearance.Design.CollapsingToolbar.Expanded"
            android:padding="15dp"
            />
        <com.google.android.material.tabs.TabLayout
            android:id="@+id/tablayout"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:tabGravity="fill"
            app:tabIndicatorColor="@color/tabIndicator"
            app:tabIndicatorHeight="2dp"
            app:tabMode="fixed"
            android:background="@color/background_dark"
            app:tabTextColor="@color/text_color_dark"
            />
    </com.google.android.material.appbar.AppBarLayout>
</androidx.viewpager.widget.ViewPager>

```

```

        android:id="@+id/myViewPager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
    >
</androidx.viewpager.widget.ViewPager>
</LinearLayout>

```

### fragment\_content.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background_dark"
    tools:context=".ContentFragment">
    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:textColor="@color/text_color_dark"
        android:layout_width="match_parent"
        android:layout_height="70dp"
        android:text="Content"
        android:textSize="30dp"
        android:gravity="center"
        android:textStyle="bold"
    />
    <ListView
        android:id="@+id/list_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginTop="70dp"
        android:divider="@color/text_color_dark"
        android:dividerHeight="1dp"
        android:padding="5dp"
    />
</FrameLayout>

```

### fragment\_exam.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".ExamFragment"
    android:background="@color/background_dark"
    >
    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:id="@+id/exam_scheme_title"
        android:layout_width="wrap_content"
        android:layout_gravity="center_horizontal"
        android:layout_height="wrap_content"
        android:text="@string/exam_scheme_title"
        android:textSize="35sp"
        android:textStyle="bold"
        android:gravity="center"
        android:textColor="@color/text_color_dark"
    />
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:layout_marginTop="20dp">
        <LinearLayout

```

```

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="80dp">
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_credits_txt"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:text="@string/credits_txt"
            android:textSize="25sp"
            android:layout_marginStart="15dp"
            android:layout_weight="1"/>
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_credits_val"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/credits_val"
            android:textSize="25sp"
            android:layout_marginEnd="30dp"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="20dp">
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_IA_txt"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:text="@string/IA_txt"
            android:textSize="25sp"
            android:layout_marginStart="15dp"
            android:layout_weight="1"/>
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_IA_val"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/IA_val"
            android:textSize="25sp"
            android:layout_marginEnd="30dp"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="20dp">
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_ISE_txt"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:text="@string/ESE_txt"
            android:textSize="25sp"
            android:layout_marginStart="15dp"
            android:layout_weight="1"/>
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_ISE_val"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"

```



```

        android:text="@string/ESE_val"
        android:textSize="25sp"
        android:layout_marginEnd="30dp"/>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="20dp">
    <TextView
        android:textColor="@color/text_color_dark"
        android:id="@+id/scheme_ESE_txt"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="@string/ESE_txt"
        android:textSize="25sp"
        android:layout_marginStart="15dp"
        android:layout_weight="1"/>
    <TextView
        android:textColor="@color/text_color_dark"
        android:id="@+id/scheme_ESE_val"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/ESE_val"
        android:textSize="25sp"
        android:layout_marginEnd="30dp"/>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="20dp">
    <TextView
        android:textColor="@color/text_color_dark"
        android:id="@+id/scheme_practical_txt"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="@string/practical_txt"
        android:textSize="25sp"
        android:layout_marginStart="15dp"
        android:layout_weight="1"/>
    <TextView
        android:textColor="@color/text_color_dark"
        android:id="@+id/scheme_practical_val"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/practical_val"
        android:textSize="25sp"
        android:layout_marginEnd="30dp"/>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:layout_marginTop="20dp">
    <TextView
        android:textColor="@color/text_color_dark"
        android:id="@+id/scheme_presentation_txt"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:text="@string/presentation_txt"
        android:textSize="25sp"
        android:layout_marginStart="15dp"
        android:layout_weight="1"/>

```

```

        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_presentation_val"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/presentation_val"
            android:textSize="25sp"
            android:layout_marginEnd="30dp"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="20dp">
        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_total_txt"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:text="@string/total_txt"
            android:textSize="25sp"
            android:layout_marginStart="15dp"
            android:layout_weight="1"
            android:textAlignment="textEnd"
            android:textStyle="bold"/>

        <TextView
            android:textColor="@color/text_color_dark"
            android:id="@+id/scheme_total_val"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/total_val"
            android:textSize="25sp"
            android:layout_marginEnd="30dp"
            android:textStyle="bold"/>
    </LinearLayout>
</LinearLayout>
</FrameLayout>

```

## fragment\_practical.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background_dark"
    tools:context=".PracticalFragment">
    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:id="@+id/practical_title"
        android:layout_width="match_parent"
        android:layout_height="70dp"
        android:text="Practical"
        android:textColor="@color/text_color_dark"
        android:textStyle="bold"
        android:gravity="center"
        android:textSize="30dp"
    />
    <ListView
        android:id="@+id/practical_list_view"
        android:layout_width="match_parent"
        android:layout_marginTop="70dp"
        android:layout_height="wrap_content"
    />
</FrameLayout>

```

list\_item.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView android:id="@+id/textView"
    android:textColor="@color/text_color_dark"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:textSize="18dp"
    xmlns:android="http://schemas.android.com/apk/res/android" />
```

list\_item1.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView android:id="@+id/textView1"
    android:background="@color/background_dark"
    android:textColor="@color/text_color_dark"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:textSize="44dp"
    xmlns:android="http://schemas.android.com/apk/res/android" />
```

practical\_list\_view.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/background_dark"
    android:orientation="vertical">
    <TextView
        android:layout_marginTop="15dp"
        android:id="@+id/practical_title"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/text_color_dark"
        android:textSize="23dp"
        android:textStyle="bold"
        />
    <TextView
        android:id="@+id/practical_description"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textColor="@color/text_color_dark"
        android:textSize="18dp"
        />
</LinearLayout>
```

7:23 AM



24%

Mobile Application  
Development

Cloud Services  
Application

Computational  
Intelligence



# Course Details

EXAM

CONTENT

PRACTICAL

## Content

### Unit 1: Introduction to Java

Basics of java programing, string processing, multithreading, and input-output, object oriented concept: inheritance, encapsulation and polymorphism. Interfaces, collections and Exception handling

### Unit 2: The Android Platform

Introduction to the Android platform, Application framework, Basic Building blocks, Broadcast Receivers and Content providers, UI Components, Intents and Intent Filters, Android API levels, AVD and the Android Studio IDE.

### Unit 3: User Interface design

UI Design: Activities, Views, layouts and Common UI components, UI through code and XML, Activity lifecycle, Intents, communication among activities, Menus, Custom and compound Views, Notifications, UI Events, Event Listeners.

### Unit 4: Intent, Broadcast Receivers and Sensors

Explicit Intents, Implicit intents, Role of filters, Intent-matching rules, Filters in manifest and in dynamic Broadcast Receivers, Creating Broadcast receiver, Receiving System Broadcast, Understanding Broadcast action, category and data, Sending Broadcast. Sensors: Finding sensors, Accelerometers,

### Unit 5: Android Data Storage

# Course Details

EXAM

CONTENT

PRACTICAL

## Content

### Unit 1: Introduction to Cloud Computing

Roots of Cloud Computing, Layers and types of cloud, Desired features of Cloud, Cloud Infrastructure Management, Infrastructure as service provider, Platform as Service provider, Challenges and risks. Broad Approaches to Migrating into the cloud.

### Unit 2: Introduction to virtualization and Cloud Deployment Models

Basics of Virtualization – Types of Virtualization Techniques – Merits and demerits of Virtualization – Full Vs Para-virtualization – Virtual Machine Monitor/Hypervisor. Different Cloud services and deployment models, the economics of Cloud, Cloud infrastructure components, and Cloud service creation processes.

### Unit 3: The Enterprise Cloud Computing

Introduction, Background, issues for enterprise applications on the cloud, Transition challenges, Enterprise cloud technology and market evaluation, Business drivers for enterprise cloud computing.

### Unit 4: Cloud services

Infrastructure as a service: Introduction, Virtual Machines Provisioning and manageability, Virtual Machine Migration services, Cloud Storage: From LANs to WANs. Platform as a Service (Aneka): Introduction, Technologies and tools for cloud computing. Aneka Cloud platform. Aneka Resource



# Course Details

EXAM

CONTENT

PRACTICAL

## Content

### Unit 1: Fuzy Systems

Fuzzy set theory, Fuzy set, Membership, Operations, Fuzzy relations.

### Unit 2: Artificial Neural Networks

Introduction to the Android platform, Application framework, Basic Building blocks, Broadcast Receivers and Content providers, UI Components, Intents and Intent Filters, Android API levels, AVD and the Android Studio IDE.

### Unit 3: User Interface design

UI Design: Activities, Views, layouts and Common UI components, UI through code and XML, Activity lifecycle, Intents, communication among activities, Menus, Custom and compound Views, Notifications, UI Events, Event Listeners.

### Unit 4: Intent, Broadcast Receivers and Sensors

Explicit Intents, Implicit intents, Role of filters, Intent-matching rules, Filters in manifest and in dynamic Broadcast Receivers, Creating Broadcast receiver, Receiving System Broadcast, Understanding Broadcast action, category and data, Sending Broadcast. Sensors: Finding sensors, Accelerometers,

### Unit 5: Android Data Storage

Android File System, Internal storage, External storage, SQLite, Introducing SQLite, SQLite Open Helper and CRUD operations, Content Providers: