

# **Rukmini Devi Institute of Advanced Studies**

**Madhuban Chowk, Rohini, Delhi-110085**

**(Approved By AICTE & Affiliated With GGSIP University)**

## **DOSSIER**

**On**

**Guest Lecture**

**On**

**“Android”**

**On**

**10<sup>th</sup> ,13<sup>th</sup> and 16<sup>th</sup> January, 2014**





<b>S. No.</b>	<b>Particulars</b>	<b>Pg. No.</b>
<b>1.</b>	<b>Form- A :</b> Proposal to organize an event	<b>3</b>
<b>2.</b>	<b>Form- B:</b> Part I - Aim of the event Part II – Abstract Part III - Conclusion	<b>4</b> <b>4-6</b> <b>6-7</b>

**Ms. Sneha Chopra**

**Ms. Amandeep Kaur**  
Chairperson, Literary Club

**Prof. Col. (Retd.) Mahander Singh**  
Director General, RDIAS



## **FORM A**

### **Proposal:**

- **Name of the event to be organized:** Guest Lecture on “Android”
- **Date:** 10<sup>th</sup> ,13<sup>th</sup> and 16<sup>th</sup> January, 2014
- **Time:** 11:00 a.m. – 01:00 p.m.
- **Venue:** Lecture Theatre, RDIAS
- **Motivation for the activity:** The aim of the event was to acquaint all students with practical knowledge on the domain “Android”.
- **Organized by:** MCA Department
- **Resource Person:** Mr. Sandeep Kumar, Chief Technical Officer, Apprick Technologies;  
Dr. Vipin and Mr. Ashwini, Selecom Technologies;  
Mr. Nikhil, DUCAT.



## **FORM B**

### **Part 1**

#### **Aim of the event:**

This event was conducted under “Talent Acquisition Skill Program” whose main objective was to impart knowledge and enhance the skills of the students in the domain “*Android*” by giving them practical and industrial exposure on all the important topics/areas related to Android.

### **Part 2**

#### **Abstract:**

This entire event was organised under three different sessions by different resource persons having good industrial experience of Android to enhance the technical skills of the students as required by the IT industries; in turn making them a more confident and competitive personnel for organizations.

#### **◆ Day 1:**

The session was conducted by Mr. Sandeep Kumar, Chief Technical Officer at Aprtick Technologies.

The session was divided into four parts:

**Session – I:** Introduction of OOPS concepts

**Session – II:** Introduction of Java

**Session – III:** Introduction of Android operating systems

**Session –IV:** How to develop different applications and tools using Android

In the first part of this demo session, Mr. Sandeep Kumar discussed about the OOPS (Object Oriented Programming) concepts which are essential for the understanding of Android Operating System. He gave some examples of object creation, encapsulation, inheritance, abstraction etc and linked these concepts with the real world. Then, he discussed the concepts of **Java**, by giving examples of packages and classes. After forming the required knowledge base, he introduced Android Operating System and its history. Sir explained the constraints of mobile application in comparison to the desktop



application like orientation, processing power, event calls, platform versions, testing parameters etc. Understanding all these concepts are essential and are required before developing any mobile application. Sir informed students about a website 'http://developer.android.com' which is used for developing android application.

In the end, he explained IDE (Integrated Development Environment) which is used for developing an application with a demo on Eclipse IDE by developing a small application for the students' knowledge.

The session was interactive with lot of students' queries and all queries were answered to the full satisfaction of each student.

◆ **Day 2:**

This session was conducted by Dr. Vipin, an IT (Information Technology) professional with 13+ years of experience in Development and Core Database operations. He started the session by asking questions from the students based upon Android Operating System and also shared expectations and demands of IT industries from their employee's in terms of technical skills.

Concepts of Java programming language such as collection, classes, exceptions, and concurrent programming were explained with the help of a simple program in Eclipse Integrated Development Environment (IDE). Sir also illustrated the use of emulator (Android Virtual Device) through a simple Java based application and installed it in the mobile phone to demonstrate its use in real world.

Session ended with lots of queries from the students, such as what is application development, its future scope in mobile application, career opportunities being an Android/Java developer; and all of these were answered to the satisfaction of students.

**Day 3:**

This session was conducted by Mr. Nikhil, Android Consultant, DUCAT, Noida.

He spoken on the below mentioned points:

- Introduction of Android Operating System
- Introduction of Java classes and OOPs (Object Oriented Programming)concept
- What are software development toolkits and ADT's(Abstract Data Type)
- Android platform and its installation
- Understanding the concept behind "Emulator"
- Designing of the user interfaces by creating layouts and widgets



- How to develop different applications and tools using Android
- The comparison of Android application with Apple application
- Development of a program using Eclipse
- Live demo on “HELLO WORLD APPLICATION” and customized applications

In the first part of his demo session, Mr. Nikhil discussed about the OOPS (Object Oriented Programming) concepts and various classes of Java which are essential for understanding the concepts of Android Operating System. He also gave examples of object creation, encapsulation, inheritance, abstraction, etc. and linked these concepts with the real world. Then, he compared the mobile application with the desktop application in terms of orientation, processing power, event call, platform versions, testing parameters etc. and further explained the difference between android applications and apple applications.

Through Eclipse Integrated Development Environment Dr. Vipin designed user interfaces by creating layouts and widgets, and gave a live demonstration on “HELLO WORLD APPLICATION”, which in turn helped the students for developing their own application.

### **Part 3**

### **Conclusion**

It is important for the students to be well acquainted with the applied aspects of the above mentioned areas and should be aware of the intricacies of implementing this technology. Keeping this in mind, the guest lecture was organized for the students to gain the knowledge and make them aware about the technical skill requirements and expectations of IT industries from them. The session was very informative since speakers explained all the points in detail with demonstration, examples and handled all the queries with expertise. It was a great experience for all of us.



## Lecture Moments



Director General, RDIAS felicitating the guest speaker



HOD MCA, felicitating the guest speaker, Mr. Sandeep Kumar..!!



Director General, RDIAS addressing the audience..!!



Faculties and students listening carefully during the lecture..!!