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Mr Jeetendra Singh

Oracle Certified Professional,

Lead FDP Trainer, EICT Academy-IIT,

Kanpur

FDP Coordinator

Mrs. Swetha P

Assistant Professor

Dept. of Computer Science & Engineering

Date and Venue

26th April to 1st May, 2021

02:00PM – 4:00PM

Venue: Online Platform

Address for Communication

Dept. of Computer Science & Engineering

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E & ICT Academy,

IIT Kanpur, Kalyanpur,

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Kammavari Sangham (R) 1952
K.S. GROUP OF INSTITUTIONS



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Faculty Development Programme

On

“Mobile Application

Development Using

Android”

26th April to 1st May, 2021

In Association with

EICT Academy- IIT, Kanpur



About KSSEM

2010, is the Kammavari Sangham's latest venture in the field of technical education. The institution was established with the objective of providing higher technical education, and research opportunities to the student community. With a prominent research hub, the college has opportunities for the students to pursue their studies in the fields of engineering and management.

K.S.School of Engineering & Management provides BE, M.Tech and MBA courses, and is in the process of developing its postgraduate facilities. K.S. School of Engineering & Management provides an opportunity for students to pursue their BE in five different disciplines: Computer Science, Electronics and Communications Engineering, Electrical and Electronics Engineering, Civil Engineering and Mechanical Engineering.

The campus, nestled in a quiet location off the Kanakapura Main Road, close to the KSIT campus, provides quality facilities like well-equipped laboratories, sports facilities, library, a state-of-the-art conference hall for seminars, an airy auditorium for gatherings, etc.

Department of CSE

Computer Science and Engineering (CSE) is a discipline devoted to the systematic study, creation and application of computer-based models to understand and analyze natural and engineered systems. Department of CSE is inherently interdisciplinary, with close ties to other disciplines such as mathematics, science and engineering. It draws upon and integrates concepts and principles from these fields to define a new, cohesive body of knowledge centered on the representation and manipulation of computational models.

ABOUT E & ICT ACADEMY

Electronics & ICT Academy (E & ICT Academy) at IIT Kanpur was established in 2016 in partnership with the Ministry of Electronics and Information Technology (MeitY), Government of India. It is mandated to provide industry focused and industry-driven hands-on courses in electronics & ICT. E & ICT Academy strives to narrow the gap between the academic approach to electronics and ICT domains as currently provided by the educational institutions and the practically oriented approach as demanded by the industry. It intends to work towards enhancing the domain expertise of interested faculties with a special focus on the faculties of the three northern states of U.P., Haryana, Punjab and the two union territories of Delhi and Chandigarh, through a continuous engagement model with courses upgraded regularly.

Though the courses are open to all, a special preference will be given to faculty from the three northern states of U.P., Haryana, Punjab and the two union territories of Delhi and Chandigarh. Currently, the academy is offering a variety of courses in the field of Information Technology, Electronics and Management domains, with several courses in the pipeline to be launched soon. We are offering a wide variety of courses for beginners as well as experts in R Programming, Python Programming, Machine Learning, Artificial Intelligence, Cloud Computing, Internet of Things, Data Mining and many more. Also, there is a variety of courses available in Hindi as well.

Objective of Faculty Development Program

Learning Android application development assists in the understanding the specific requirements, possibilities and challenges while developing application for a mobile context and Android users. As the population using Android applications are increasing rapidly, the challenges are also huge in this area. Hence the objective of the program highlights in concentrating the fundamental concepts of application development and also provides

hands on sessions in the application development. Learning Android application development will help to address all the challenges and issues that arise in this area. Any programming experience is not mandatory to attend the program.

Outcomes of the FDP

- You will learn basic concepts of Android development.
- You will be able to use Android development tools effectively.
- You will learn how to develop powerful mobile application and its deployment.

Registration Link

<https://forms.gle/cYGyKgCRriE9g6tw6>

WhatsApp Group Link

<https://chat.whatsapp.com/CciKJkdAefR7TdxFJVeDjs>

Target Audience

The FDP is open for participants from academia across all branches of Engineering. There is no prerequisite for any programming knowledge. If you have been using Smart phone for surfing and chatting with friends, then YOU ARE A PERFECT TARGET AUDIENCE!

FDP ON Mobile Application Development Using Android

K.S.School of Engineering and Management has organized a six day's Faculty Development Program on "Mobile Application Development Using Android" in association with EICT Academy- IIT, Kanpur from 26th April to 1st of May, 2020 in online mode.

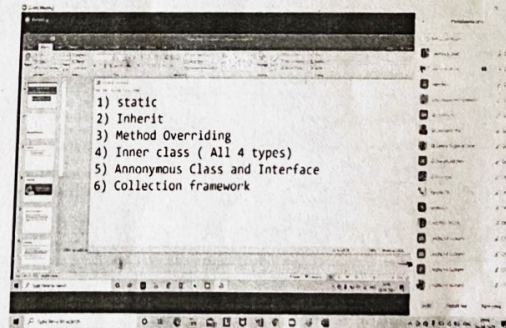
The FDP was delivered by Mr Jeetendra Singh, Oracle Certified Professional, Lead FDP Trainer, EICT Academy-IIT, Kanpur.

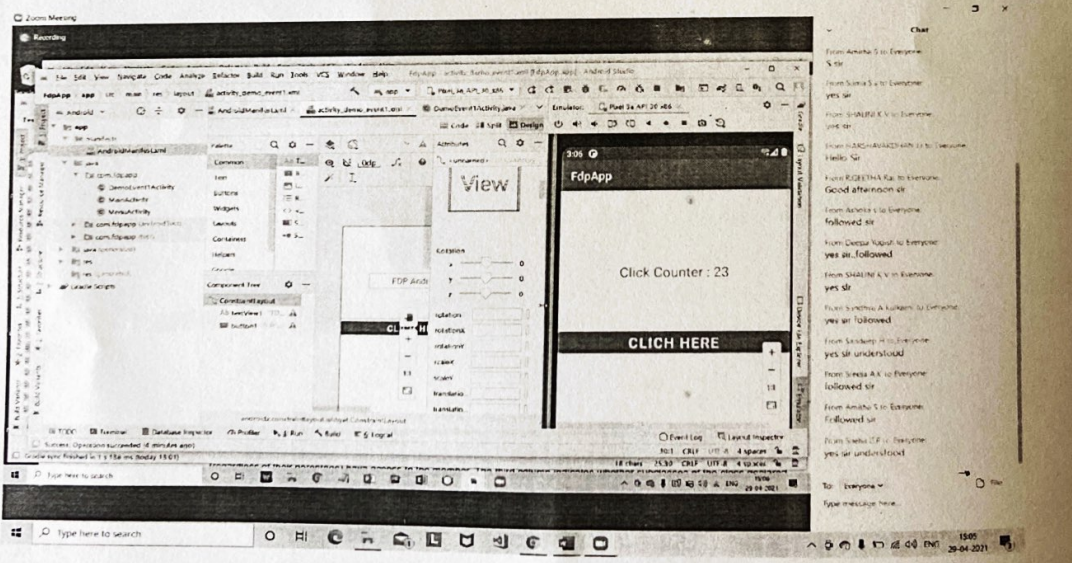
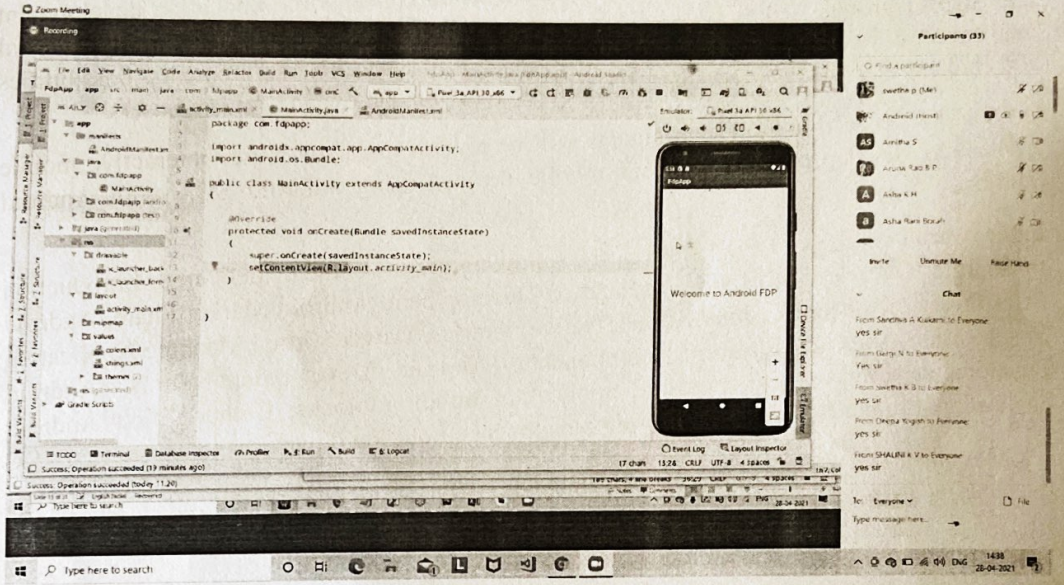
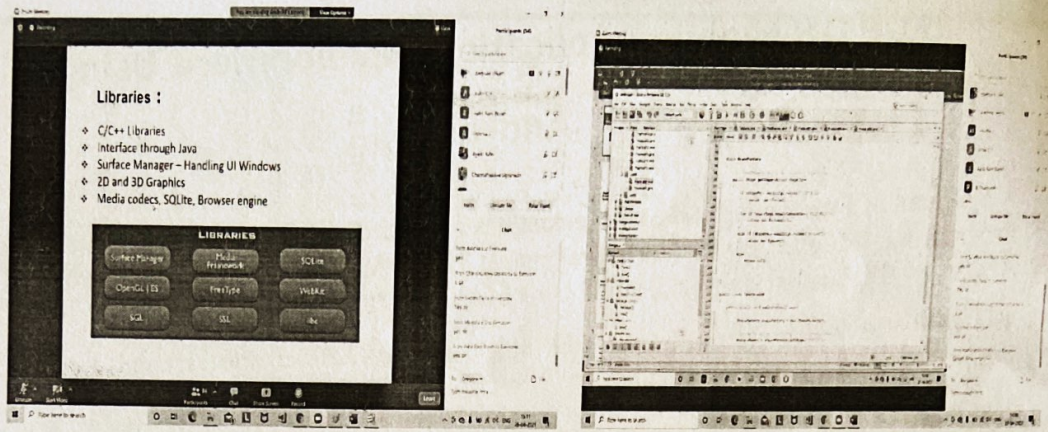
The Purpose of the FDP was to learn the fundamental concepts of application development and also to provide hands on sessions in the application development. Learning Android application development assists in the understanding the specific requirements, possibilities and challenges while developing application for a mobile context and Android users.

On completion of this FDP, participants will be able to understand user interactive mobile application development for android mobile devices using Android SDK with Android Studio.

In the overall six days of FDP session, the following are the contents delivered: Introduction to Android, Overview of Mobile Application Development, Android Market Share, Android Stack Overview of Stack Linux Kernel, Native libraries, Dalvik Virtual Machine Application Framework, Android Platform Components, Android Development Tools, Android Development Environment, Android application building blocks, Creating first Android application, Project Structure, Activating components, Shutting down components, etc..

The overall FDP was interactive, participants from academia across all branches of Engineering actively participated in all the sessions.





[Signature]
 FDP Co-Ordinator

[Signature]
 HOD
 Head of the Department
 Dept. of Computer Science & Engineering
 K.S. School of Engineering & Management
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| Overview: | Android is an open source project of the Open Handset Alliance that has revolutionized the user experience of a mobile device. Android is a platform for mobile devices, which includes an OS, middleware and some key applications. |
| Course Objective: | On completion of the workshop, participants will be able to understand user interactive mobile application development for android mobile devices using Android SDK with Android Studio |
| Prerequisites: | Knowledge of basic programming of Core Java |

Android Wrokshop (6 - Days)

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| 1 | Introduction to Android |
| 2 | Overview of Mobile Application Development |
| 3 | Android Market Share |
| 4 | Android Stack Overview of Stack Linux Kernel |
| 5 | Native libraries |
| 6 | Dalvik Virtual Machine Application Framework |
| 7 | Android Platform Components |
| 8 | Android Development Tools |
| 9 | Android Development Environment |
| 10 | Android application building blocks |
| 11 | Creating first Android application |
| 12 | Project Structure |
| 13 | Activating components |
| 14 | Shutting down components |
| 15 | Life Cycle of Application |
| 16 | Android Activity |
| 17 | Android Layout for Activity |
| 18 | Declarative Event Handling |
| 19 | Event listeners |
| 20 | Event handlers |
| 21 | Android application building blocks |
| 22 | Activity |
| 23 | Intents |
| 24 | Services |
| 25 | Content Providers |
| 26 | Broadcast Receivers |
| 27 | Future scope of Android |
| 28 | XML Vs Java UI |
| 29 | Layouts |
| 30 | Common UI Component |
| 31 | Drag and Drop UI Design |
| 32 | Menu Creation, Dialog, Toast, Alert, Time Picker, Date |
| 33 | Future scope of Android |

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E & ICT Academy, IIT Kanpur

(A Joint Initiative of MeitY & IIT Kanpur)

Certificate

This is to certify that

DR. / MR. / MS. **SWETHA P**

of

K S SCHOOL OF ENGINEERING AND MANAGEMENT
has completed the **Faculty Development Program** on
Android Development

from 26th April 2021 to 1st May 2021 (1 week)

Prof. B. V. Phani

Prof. Amey Karkare

Date of Issue: 11-05-2021

System Identification No.: 42596-450130-90fe2e0fa6481bbd

Chief Investigators, E & ICT Academy, IIT Kanpur

FDP's by E&ICT Academy, IIT Kanpur are recognised as per CAS Guidelines in this regard. For more details visit ict.iitk.ac.in/fdp