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Institute's Innovation Council
Pt. Ravishankar Shukla University Raipur
IIC - PRSU

Institute Innovation Council

Pt. Ravishankar Shukla University, Raipur

Chhattisgarh-492010

(Under The Initiative of Ministry of Education's Innovation Cell)

Aishe Code:U-0093

IIC ID:IC201810375

Report

Institute Innovation Council,

Pt. Ravishankar Shukla University, Raipur

Conducted

Four Days Summer Camp

On

Mobile Application Development

3rd to 5th June 2025

In association with

Innovation & Incubation Centre,

School of Studies in Computer Science and IT,

Pt. Ravishankar Shukla University

Sponsored and Hosted by

Chhattisgarh Regional Science Centre, Raipur C. G



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Poster



Four Days Summer Camp
on
Mobile Application Development

Organised by
SoS Computer Science and IT,
Pt. Ravishankar Shukla University

Sponsored by
Chhattisgarh Regional Science Centre

Date – 28.05.2025 to 31.05.2025
Venue- Chhattisgarh Regional Science Centre, Raipur C. G



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Details of Event

Name of Program Type	Four Days Summer Camp
Name of Program Theme	Mobile Application Development
Objective	To equip students with essential skills in mobile app development through hands-on learning.
Benefit	Enhances coding skills, fosters creativity, and builds practical knowledge in mobile app development.
Duration of Activity	3 hours X 4 Days = 12 Hours
Mode of Event	Offline
No. of Students Participants	More than 50
No. of Faculty Participants	NIL
No. of External Participants	NIL
Expenditure Amount	9000



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Mobile Application Development (03/06/2025-06/06/2025)

Day	Time			
	2.00-3.30 PM	Area	3.30-5.00 PM	Area
Day 1	Dr. Sanjay Kumar	Introduction to Mobile App Development Theory: What is Mobile App Development? Platforms (Android, iOS)	Anita Sahu	- Overview of Integrated Development Environments (VSCode / Android Studio) for beginners - Real-world applications and careers in App Development - Hands-on Activity: Exploring IDLE interface - Creating a basic "Hello World" mobile app
Day 2	Dr. Mrs. Kavita Thakur	Basics of UI/UX Design & App Components Theory: - Importance of User Interface (UI) & User Experience (UX) in app design - Understanding screens, buttons, text fields, and images - Introduction to App Navigation & Layouts - Design principles for responsive and user-friendly apps	Mr. Samik Bhattacharya	Hands-on Activity: - Designing the UI for a simple mobile app - Adding buttons, labels, and text input fields using Android Studio
Day 3	Ms. Sweta Shrivastava	- Adding Functionality with Blocks & Logic Theory: - Understanding Event-Driven Programming - Basics of Logical Conditions (If-Else statements) - Introduction to variables and data storage in apps	Ms. Soni Kumari	Hands-on Activity: - Programming a basic calculator or quiz app using block-based coding - Adding interactivity (buttons triggering actions, displaying messages, etc.)
Day 4	Dr. V. K. Patle	Final Project & Testing Theory: - Understanding app debugging and testing - Introduction to publishing apps on Google Play Store (conceptual overview) - Future scope and career paths in App Development & Software Engineering	Ms. Namrata Sharma	Hands-on Activity: - Students develop their own simple app (E.g., Calculator, ToDo List, or BMI-Calculator) - Showcase & Presentation: Students present their app projects



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About the Event and Speaker

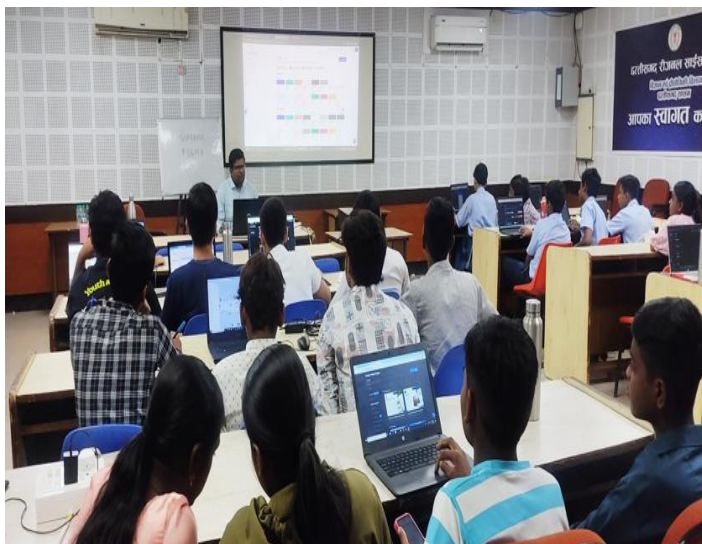
Day 1: June 3, 2025

Topic: *Introduction to Mobile App Development Theory: What is Mobile App Development? Development Platforms (Android, iOS)*

On June 3rd, 2025, an engaging and informative Expert Talk on " *Introduction to Mobile App Development Theory: What is Mobile App Development? Development Platforms (Android, iOS)*" was held to introduce students to the fundamentals of app creation. The session commenced with an explanation of mobile app development, defined as the process of designing and constructing software for smartphones and tablets. The speaker elaborated on the significance of mobile applications in the current digital age and their contribution to addressing real-world challenges. Key development platforms, including Android and iOS, were examined, emphasizing their tools, features, and ecosystems. The lecture wrapped up with perspectives on future opportunities and motivated students to engage in practical learning in app development.

A session was conducted to offer an introduction to Integrated Development Environments (IDEs) such as VS Code and Android Studio for novices. The presenter emphasized their importance in facilitating coding, debugging, and testing throughout the app development process. Conversations also included practical uses of mobile applications and various career paths available in the app development sector. During the interactive segment, students examined the IDLE interface and acquired fundamental navigation skills. The session wrapped up with the creation of a basic "Hello World" mobile application, providing students with hands-on experience in app development.

Photos of the Event



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Day 2: June 4, 2025

Topic: *Basics of UI/UX Design & App Components Theory*

On June 4th, 2025, presented lecture titled “Basics of UI/UX Design & App Components Theory” was held to familiarize students with the essential aspects of app design. The session highlighted the significance of UI and UX in developing visually appealing, user-friendly, and interactive applications. Students were introduced to fundamental app components including screens, buttons, text fields, and images. The idea of app navigation and layouts was illustrated with practical examples. In conclusion, important design principles for creating responsive and user-centric applications were reviewed to assist in future app development endeavours.

A practical session was held to design the user interface for a basic mobile application utilizing Android Studio. Students engaged in the creation of app screens by incorporating vital elements such as buttons, labels, and text input fields. The focus of the session was on developing a straightforward and interactive interface suitable for beginners. Participants examined the drag-and-drop functionalities of Android Studio to effectively design layouts. This exercise improved the students' hands-on skills in UI development and increased their confidence in app design.

Photos of the Event





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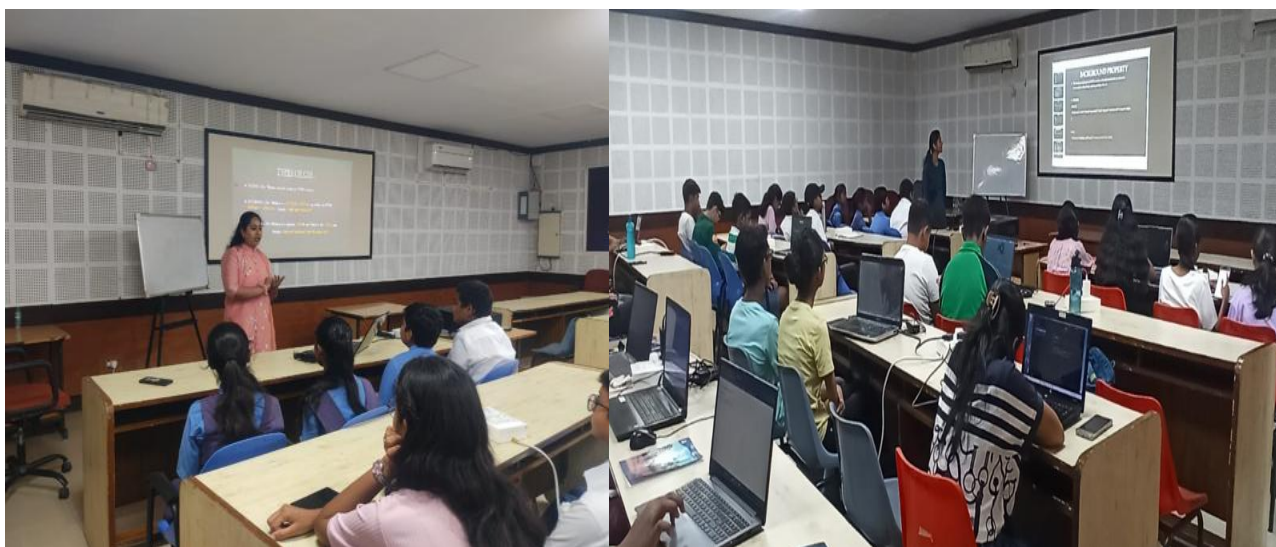
Day 3: June 5, 2025

Topic: *Adding Functionality with Blocks & Logic Theory*

On June 5th, 2025, presented lecture titled "Adding *Functionality with Blocks & Logic Theory* " was conducted to elucidate the principles of application functionality. The session covered event-driven programming, illustrating how applications react to user interactions such as clicks and inputs. Students were introduced to the fundamentals of logical conditions (If-Else statements) for making decisions within applications. An overview of variables and data storage was presented to demonstrate how applications manage and retain information. The lecture enabled participants to grasp how coding logic infuses interactivity and intelligence into mobile applications.

A practical activity was carried out in which students developed a fundamental calculator or quiz application utilizing block-based coding. They engaged in adding buttons and actions to enhance the interactivity of the app. The session provided guidance on how to implement basic logic for calculations and responses. Students also acquired knowledge on how to present messages and outputs in accordance with user input. This activity offered hands-on experience in the creation of functional and interactive mobile applications.

Photos of the Event





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Day 4: June 6, 2025

Topic: *Final Project & Testing Theory*

On June 6th, 2025, presented lecture titled "Final Project & Testing Theory" was held to acquaint students with the concluding phases of application development. The session emphasized the significance of debugging and testing applications to guarantee flawless performance. Students were introduced to the theoretical framework of publishing applications on the Google Play Store. Discussions also underscored the future potential and career prospects in application development and software engineering. The lecture inspired students to implement their knowledge in practical projects and to seek careers in the technology sector.

A practical activity was conducted in which students created their own basic applications, including a Calculator, To-Do List, or BMI Calculator. They utilized the concepts acquired during the camp to design and execute functional features. Each student engaged in coding, interface design, and testing of their application. A showcase and presentation session took place where participants exhibited their projects. This activity enhanced creativity, confidence, and hands-on experience in mobile app development.

Photos of the Event





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Conclusion/Outcomes

The Science Summer Camp focused on Mobile Application Development, which took place from June 3rd to June 6th, 2025, effectively offered students a thorough educational experience. Throughout the four-day event, attendees participated in both theoretical discussions and practical exercises, adhering to a well-organized schedule. Theoretical presentations addressed fundamental concepts of mobile app development, UI/UX design, event-driven programming, and app components. Students acquired knowledge about development platforms such as Android and iOS, and examined Integrated Development Environments (VS Code and Android Studio). Practical sessions enabled participants to build basic applications, design user interfaces, and implement features using block-based coding. Attendees created simple applications like calculators, To-Do lists, and BMI calculators, utilizing the practical skills acquired during the camp. A strong emphasis was placed on app testing, debugging, and comprehending the conceptual framework of app publishing. Students were exposed to real-world applications and career prospects in app development and software engineering. The camp significantly improved participants' problem-solving abilities, creativity, and technical confidence in mobile application development. In summary, the four-day program effectively integrated theory and practice, inspiring students to engage in further learning and projects related to mobile app development.

Dr. Kavita Thakur
President, IIC PRSU



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