



KCES's College of Engineering and Management, Jalgaon
Activity Report

Name of The Activity : Value-added course On –“Android app Development using Kotlin”			
Category of activity	Curricular	Co-curricular	Extra-curricular
Date:	04/08/2025 to 08/08/2025	Participants Profile: 109 From B.Tech	
Name of Co-ordinator (S)	Mr. Niraj Kumar Padme Mr. Vikas Narkhede		
Guest/ Experts (If any)	Internal faculty		
Objective for conducting activity	➤ To develop robust, user-friendly, and high-performance Android applications using Kotlin , leveraging modern Android development tools and best practices such as, MVVM architecture , and Kotlin Coroutines , while continuously enhancing my skills in mobile app development to create impactful solutions for real-world problems.		
Methodology	<p>1. Requirement Analysis</p> <ul style="list-style-type: none">• Identify the goals, target audience, and core features of the app.• Conduct user research (if applicable) to define key user needs.• Define technical requirements such as APIs, database needs, and third-party integrations. <p>2. Design</p> <ul style="list-style-type: none">• UI/UX Design: Create wireframes and mockups using tools like Figma or Adobe XD.• Architecture Planning: Choose a clean architecture pattern like MVVM (Model-View-ViewModel) to separate concerns and ensure testability. <p>3. Development (Using Kotlin)</p> <ul style="list-style-type: none">• Environment Setup: Android Studio with the Kotlin plugin, latest SDKs, and required libraries.• UI Implementation: <p>4. Testing</p> <ul style="list-style-type: none">• Unit Testing: Write unit tests for ViewModels, use cases, and utility functions using JUnit.• UI Testing: Perform automated UI tests using Espresso or Jetpack Compose testing tools <p>5. Deployment</p> <ul style="list-style-type: none">• Generate a signed APK or App Bundle.• Publish to Google Play Store, following all <i>guidelines</i>		





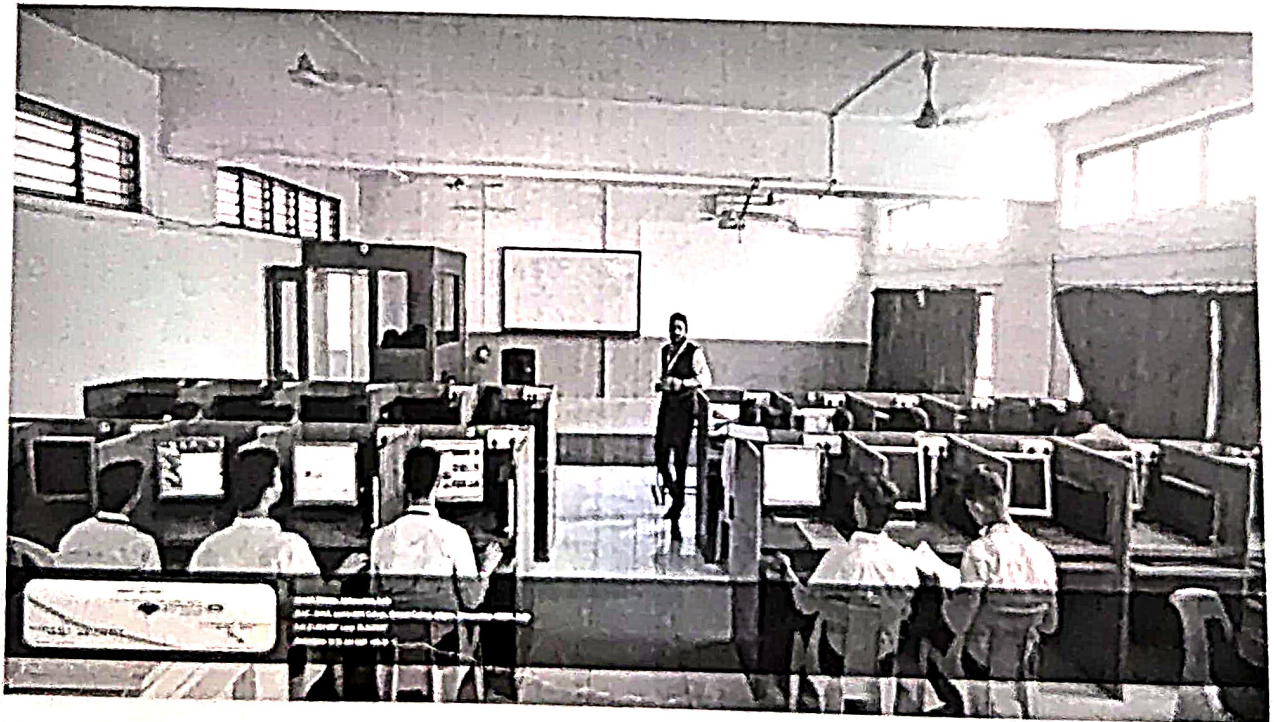
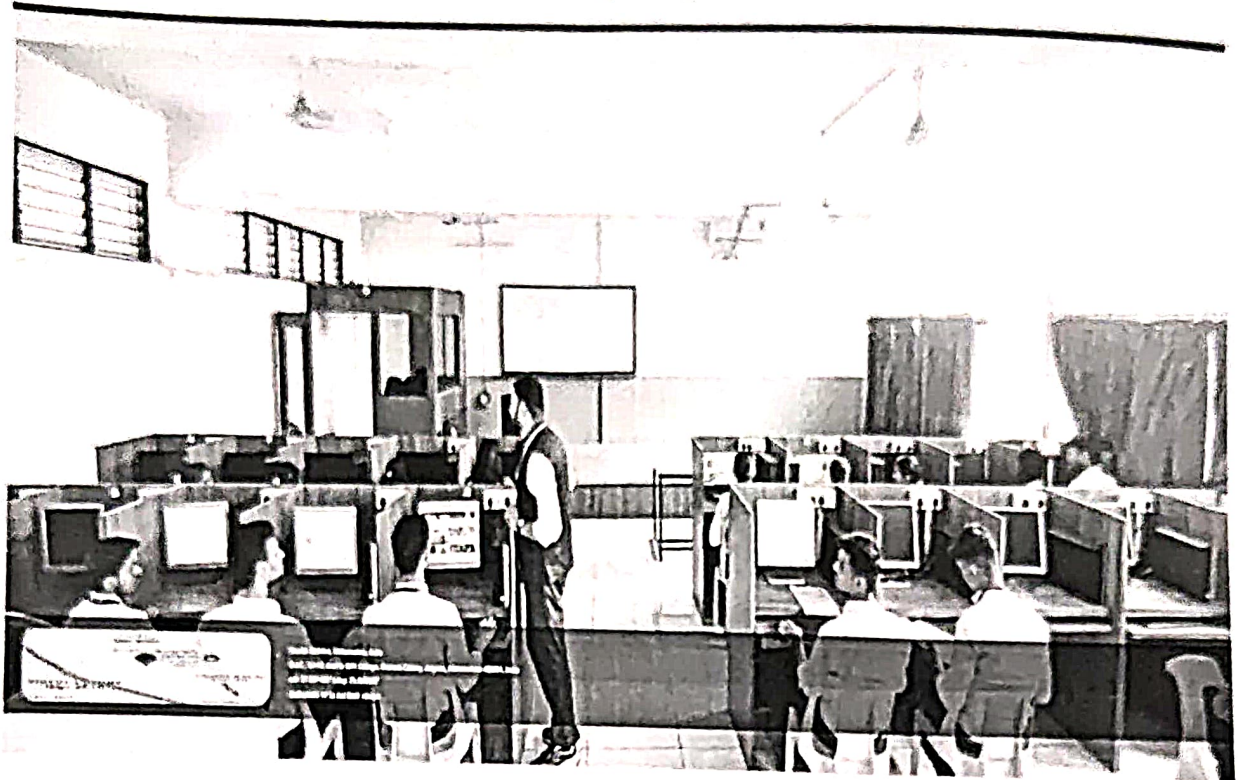
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	<p>6. Maintenance & Updates</p> <ul style="list-style-type: none">• Regularly update the app for new features, bug fixes, and Android OS changes.• Use crash analytics tools (like Firebase Crashlytics) to monitor and resolve issues.
<p>Out Come</p>	<p>➤ Successfully developed a fully functional Android application using Kotlin, implementing modern architecture (MVVM), Jetpack components, and clean UI/UX design. The project enhanced skills in Kotlin programming, app lifecycle management, data persistence, and API integration, resulting in a smooth, responsive, and user-friendly mobile experience.</p>





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IQAC coordinator

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