



Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, Accredited by NAAC with A Grade approved by AICTE and affiliated to JNTUH) Vinaynagar, IS Sadan Crossroads, Saidabad, Hyderabad – 500 059, Telangana. www.brecw.ac.in



Department of Computer Science and Engineering

File No: BRECW/CSE/AY24-25-Odd/Workshop/Report/002

Date: 29/11/2024


Report on Workshop

Topic: “Android Basics: Build Your First Mobile App”

Class: III B Tech CSE A & B

Dates: 26 to 27 November 2024

Venue: Seminar Hall WB 402 & Lab-I, Lab-II & Lab-III (SB 111, SB 114 & SB 115)

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File No: BRECW/POV/CSEAY 24-25/ 211 Date: 14/11/2024

Circular

All the III BTech CSE A & B students are hereby informed that CSE department is conducting Two-day workshop on “Android Basics: Build Your First Mobile App” during 26 to 27 November 2024 in collaboration with Computer Society of India (CSI) under Internal Quality Assurance Cell (IQAC).

The details of the workshop are as follows:

S No	Class	Date and Time (Hrs)	Venue	Resource Person
1	III CSE A & B	26 November 2024 09:30 – 11:00	Inaugural Session Seminar Hall WB 402	Mr D Obulaiah, Software Developer, Madtech Solutions, Hyderabad
		26 November 2024 11:00 – 16:30	Theory & Hands-on Session Lab-I, Lab-II & Lab-III (SB 111, SB 114 & SB 115)	
		27 November 2024 09:30 – 16:00	Theory & Hands-on Session Lab-I, Lab-II & Lab-III (SB 111, SB 114 & SB 115)	
		27 November 2024 16:00 – 18:30	Valedictory Session Seminar Hall WB 402	

All the students must attend the workshop without fail.

Note:

- All the III CSE A & B students are hereby informed to register for the workshop by paying an amount of Rs. 400/- towards registration fee by 20 November 2024 (16:30 Hrs). The registration fee must be paid through brecw.unicampus.in portal.
- The faculty who are handling III BTech CSE A & B should mark the attendance as per the timetable.
- All the CSE teaching and non-teaching faculty who do not have classwork are requested to attend the workshop.


Principal

To
All HoDs and HoFs for circulation among the students and staff members.

Copy to

- Chief Operating Officer, SLV
- Director-HR & Academics, SLV
- Vice Principal, BRECW
- IQAC Coordinator
- Seminar & Workshop Coordinator
- Maintenance Officer, BRECW
- File

Banner:

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Department of Computer Science and Engineering

A Two Day Workshop
on
"Android Basics: Build Your First Mobile App"

in collaboration with Computer Society of India
under Internal Quality Assurance Cell

Date: 26-27 November 2024
Time: 9:30 - 16:30 Hrs
Venue: Seminar Hall (WB 402) & CSE Labs(SB First floor)
Class : III CSE A&B

Activity Report

General Information

Type of Activity	Student Development Program (Foster interaction, Interactive Q&A Session, Case Studies and Real-Life Examples)
Title of the Activity	Workshop
Date/s	26 to 27 November 2024
Time	09:30 – 16:30 Hrs
Venue	Venue: Seminar Hall WB 402 & Lab-I, Lab-II & Lab-III (SB 111, SB 114 & SB 115)
Collaboration/Sponsor (if any)	SLV

Speaker/Guest/Presenter Details

Name of the Speaker: Mr D Obulaiah,

Title/Position: Software Developer

Organization: Madtech Solutions, Hyderabad.

Dynamic software developer with 4+ years of expertise in full-stack development, proficient in Java, Python, and JavaScript. Skilled in web technologies like React.js, AngularJS, and backend frameworks such as Spring Boot and Django. Experienced in cloud platforms (AWS, Azure, Google Cloud) and DevOps practices. Demonstrated success in real-time projects on ASD, cybersecurity, and blockchain.

Inaugural Session:

The Department of Computer Science and Engineering inaugurated a two-day workshop on " Android Basics: Build Your First Mobile App " for the III B.Tech CSE A & B students, scheduled from 26 to 27 November 2024. This workshop aims to provide students with hands-on experience in data analysis, visualization, and programming, equipping them with valuable skills for real-world applications.

Inaugural Session Schedule

Welcome Address by III CSE Student: The inaugural session commenced with a warm welcome by a student representative from III CSE. The student enthusiastically introduced the objectives of the two-day workshop, "Android Basics: Build Your First Mobile App", emphasizing its importance in equipping participants with essential skills in mobile app development. The welcome address set an energetic tone for the event, expressing gratitude to the speakers and organizers for their efforts.

Address by HoD-CSE, Dr. B. Raveendranadh Singh: Dr. B. Raveendranadh Singh, Head of the Department of CSE, addressed the gathering with inspiring words. He highlighted the growing demand for mobile application development skills in the current digital era and applauded the initiative to host such an industry-relevant workshop. He urged students to make the most of this opportunity to learn Android fundamentals and contribute to innovative technological solutions.

Address by Principal, Dr. J. Madhavan:

Dr. J. Madhavan, Principal of the college, congratulated the Department of CSE and the Internal Quality Assurance Cell (IQAC) for organizing the workshop. He reiterated the institution's commitment to fostering a learning environment where students can enhance their technical skills and innovation. He expressed his gratitude to the resource person and other dignitaries for their contributions to the event.

Keynote Address by Resource Person, Mr D Obulaiah: The keynote address was delivered by Mr. D. Obulaiah, a skilled software developer with extensive experience in Android development and modern software frameworks. Mr. Obulaiah shared valuable insights into the workshop's objectives and the

relevance of Android app development in today's technology landscape. He discussed how foundational knowledge in Android serves as a steppingstone for creating impactful applications and exploring advanced mobile technologies.

Following the keynote address, the first session of the workshop began, diving into the fundamentals of Android development. Participants were eager to explore tools, frameworks, and practical techniques for building mobile applications, marking the start of an engaging and enriching learning experience.

Day 1: Introduction to Android Development & Basic App Creation

Session 1: Introduction to Android Development

Understanding Android: Overview of Android OS, Android Studio, and Development Tools, Installing Android Studio and Setting up the Development Environment, Introduction to Java/Kotlin for Android Development

Session 2: Understanding Android Studio Interface

Exploring Android Studio IDE, Project Structure in Android Studio, Creating a New Android Project
Introduction to activity_main.xml and MainActivity.java/MainActivity.kt

Session 3: Designing User Interfaces (UI)

Introduction to Layouts: LinearLayout, RelativeLayout, and ConstraintLayout, Using Views: Buttons, TextViews, EditTexts, ImageViews, Handling User Input and Event Listeners (Button click, etc.)
Previewing UI on the Android Emulator/Device

Session 4: Building Your First Simple App (Part 1)

Hands-on Activity: Build a Simple "Hello World" App, Customize UI elements
Add Interactivity (e.g., Button click changes TextView text), Testing and Running Your App on Emulator/Device

Day 2: Expanding App Features & Advanced Concepts

Session 5: Introduction to Android App Components

Activities, Intents, and Services, Working with Fragments, Understanding the Android App Lifecycle

Session 6: Working with Data & Storage

Using Shared Preferences for Simple Data Storage, Introduction to SQLite Database for Local Storage
Accessing Device Storage (External/Internal), Introduction to working with APIs (using Retrofit or Volley)

Session 7: Building Your First Simple App (Part 2)

Hands-on Activity: Add More Features to the "Hello World" App (e.g., input forms, saving data)
Working with User Input: EditText, Spinners, RadioButtons, Introduction to Navigation and Multiple Screens (Switching Activities)

Session 8: Debugging and Optimizing Your App

Using Android Studio Debugger, Common Issues & Solutions (e.g., App crashes, UI problems)

Best Practices for Optimizing App Performance and Battery Usage



Feedback

The session received positive feedback from participants and attendees, who appreciated the insightful speeches and the well-structured schedule. The student representatives expressed enthusiasm for the opportunity to learn directly from industry experts, while the resource person's practical approach to Android development was commended. Attendees suggested incorporating more real-world examples and case studies in future workshops to further enhance the learning experience. Overall, the session was highly motivating and provided a strong foundation for the workshop's technical sessions.


Conclusion


The inaugural session of the two-day workshop "Android Basics: Build Your First Mobile App" successfully set the stage for an engaging and enriching learning experience. With inspiring addresses from dignitaries and a compelling keynote by Mr. D. Obulaiah, the event emphasized the significance of gaining practical skills in mobile app development. The session reflected the institution's commitment to bridging the gap between academia and industry by organizing initiatives that empower students with the tools necessary for professional success.

Feedback Analysis Form

 <p align="center"> Bhoj Reddy Engineering College for Women <small>(Sponsored by Sangam Easwartha Yashwanth, Accredited by N.S.R.C. with A Grade approved by AICTE and affiliated to JNTU(H)) Venkateswara, D N Sagar Towers, Nizampet, Hyderabad - 500 039, Telangana - 2254 19600 4, 31</small> </p>  <p align="center"> Department of Computer Science and Engineering </p> <p align="center"> Workshop Feedback Form Analysis </p> <p> Topic: "R Programming & Power BI" Dates: 24-25 October 2024 Conducted in collaboration with Computer Society of India, Hyderabad. Feedback collected from <u>73</u> number of students. </p>						
S.No	R Programming & Power BI	Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
		No. of students given	No. of students given	No. of students given	No. of students given	No. of students given
1	The sessions were well-structured and easy to follow	16	11	18	20	8
2	The workshop covered a comprehensive range of concepts	14	12	23	15	9
3	Hands-on activities and practical demonstrations helpful in understanding the concepts	13	14	20	15	11
4	The workshop provides insights into the current industry practices	15	15	20	12	11
5	This workshop will be helpful for developing my Mini / Major projects	13	14	21	17	8
6	Suggestions for improvement of the workshop in future received are:	Encourage group activities and more on exercises				

Overall Analysis of the feedback is : *It was good*


 Dr P Deepthi
 Seminars and Workshops In-charge


 Dr B Raveendranadh Singh
 HoD-CSE

Dr P Deepthi
Seminars &
Workshops In-charge

Dr B Raveendranadh Singh
HoD-CSE

Geo-Tag Photos:



Figure 1: Banner for the Workshop



Figure 2: During Inauguration Session, Ms Srihitha Student of III CSE giving the Welcome Address



Figure 3: Dr B Raveendranadh Singh, Head of the Department of CSE, highlighted the significance of "Android Basics: Build your First Mobile App "



Figure 4: Dr J Madhavan, Principal, informed importance of such workshops



Figure 5: The resource person Mr B Obulaiah has given overview of the two-day workshop

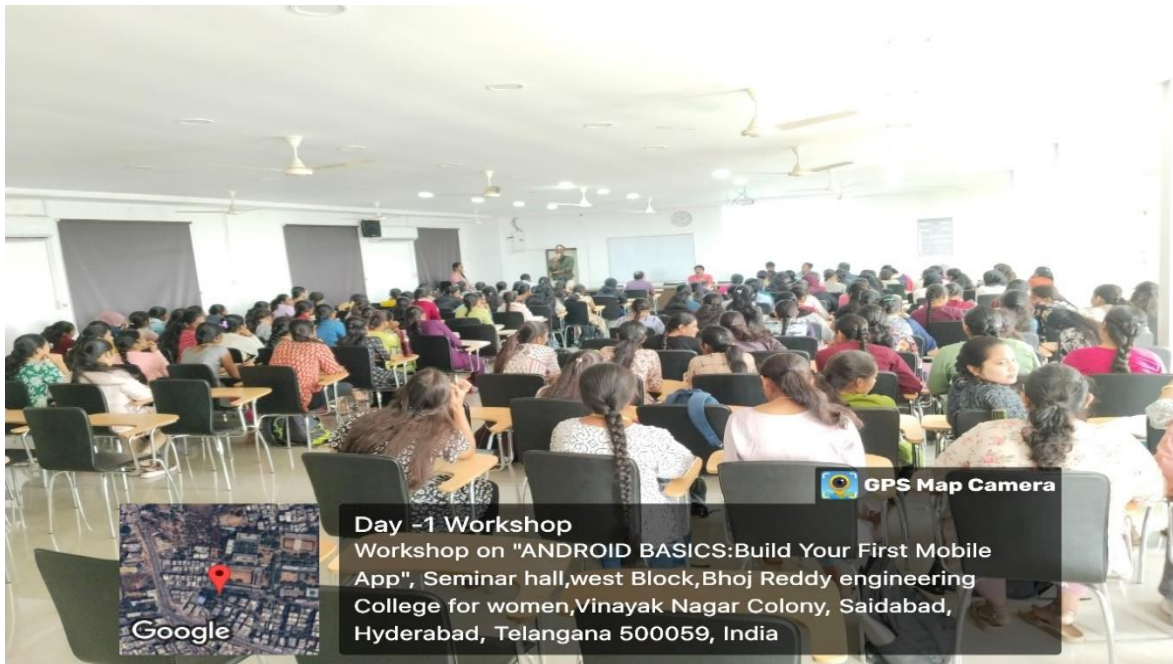


Figure 6: III CSE Students listening to the session



Figure 7: III CSE Students and staff listening to the session



Figure 8: The resource person Mr Obulaiah is explaining installation of Android Studio



Figure 9: The resource person Mr Obulaiah explaining database connectivity



Figure 10: The resource person Mr Obulaiah explaining how to connect App to Mobile phone



Figure 11: The resource person Mr Obulaiah explaining students

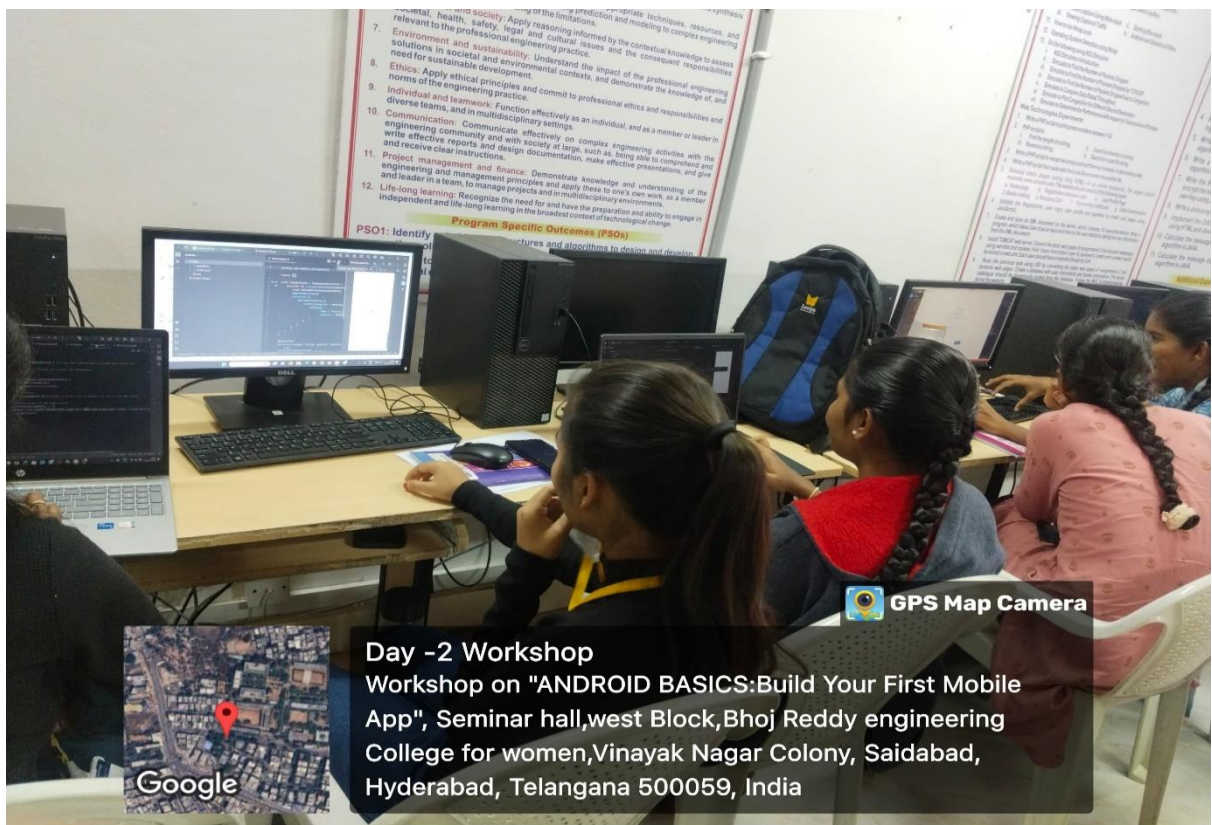


Figure 12: Students during the Practical Session



Figure 13: III CSE Students along with CSE Staff and Resource Person



Figure 14: CSE Staff with Resource Person