



SRHU/HSST/Int./2025-080

Dated: 29th March 2025

Notice

Dear Students,

We are pleased to announce that **HSST** will be conducting a **Three-day workshop on Hybrid Mobile App Development** using **Flutter** and **React Native**. The workshop will provide valuable insights and hands-on experience with these cutting-edge frameworks for building mobile apps.

Workshop Details:

- **Dates:** 3rd, 4th and 5th April 2025
- **Trainer:** Industry expert (Trainer from EXCAIN Pvt. Ltd.)
- **Workshop Content:** Please find the attached content outline for the workshop.
- **Venue:** Computer Lab-06, First Floor, HSST Building


Workshop Coordinators:

- Dr. Gaurav Sharma (HSST)
- Dr. Gunjan Chhabra (HSST)

Eligibility: Open to all interested students. **(First Come First Serve due to fix number of seats)**

Registration Link and QR Code:

- Last date of registration 1st April 2025.

Google Form Link	QR Code
https://shorturl.at/C4Wwi	

We encourage all interested students to participate in this valuable learning opportunity.

Pramod Kumar
Principal
Himalayan School of Science & Technology
Swami Rama Himalayan University
Dehradun

Dr. Pramod Kumar (SMIEEE, ACM, IETE)
Principal
Himalayan School of Science and Technology



3-day Hybrid Mobile App Development using Flutter and React Native

Two popular frameworks for hybrid app development.

Day 1: Introduction to Hybrid App Development & Flutter Basics

Session 1: Overview of Hybrid Mobile App Development

- What is Hybrid App Development?
- Comparison: Native vs. Hybrid vs. Progressive Web Apps (PWA)
- Advantages and Use Cases of Hybrid Apps
- Popular Hybrid Frameworks: Flutter, React Native, Ionic

Session 2: Getting Started with Flutter

- Introduction to Flutter and Dart
- Installation and Setup of Flutter SDK and IDE (Android Studio/VS Code)
- Flutter Project Structure and File System
- Writing First Flutter App: "Hello World"

Session 3: Flutter UI Development & Widgets

- Understanding Flutter's Widget-Based Architecture
- Stateless vs. Stateful Widgets
- Layouts: Row, Column, Stack, ListView
- Styling and Theming in Flutter

Session 4: Hands-on Project: Simple To-Do App (Flutter)

- Creating UI for a To-Do List
- Handling User Input
- Displaying List Items
- Debugging and Running on Emulator/Real Device

Day 2: React Native Basics & Cross-Platform APIs

Session 1: Introduction to React Native

- What is React Native?
- Comparison: Flutter vs. React Native



- Setting Up React Native Development Environment (Node.js, Expo, React Native CLI)
- React Native Project Structure

Session 2: React Native UI Components & Styling

- Core Components (View, Text, Image, ScrollView, FlatList)
- Handling User Interactions (Button, TouchableOpacity)
- Flexbox for Layout and Styling
- State Management in React Native

Session 3: React Native APIs & Native Module Integration

- Fetching Data using REST APIs (Axios/Fetch)
- Using AsyncStorage for Local Data Storage
- Accessing Device Features (Camera, Location, Notifications)

Session 4: Hands-on Project: News App (React Native)

- Fetching and Displaying News Articles using API
- Implementing Pull-to-Refresh
- Adding Navigation Between Screens (React Navigation)

Day 3: Advanced Features & Deployment

Session 1: Hybrid App State Management

- Introduction to State Management (Provider for Flutter, Redux/Context API for React Native)
- Handling Global and Local States
- Managing User Authentication

Session 2: Firebase Integration in Hybrid Apps

- Setting Up Firebase for Flutter and React Native
- Implementing Firebase Authentication (Google Login, Email/Password)
- Using Firestore for Realtime Database

Session 3: Testing, Debugging & Deployment

- Debugging and Performance Optimization
- Unit Testing and UI Testing
- Building APK & IPA Files



- Publishing on Google Play Store & Apple App Store

Session 4: Hands-on Project: Full-Featured Notes App (Flutter & React Native)

- Implementing CRUD Operations (Create, Read, Update, Delete)
- Adding Offline Mode Support
- Deploying the App to a Physical Device

Target Audience:

- Beginners and Intermediate Developers
- Web Developers looking to transition into mobile development
- Startups and entrepreneurs interested in cross-platform development

Prerequisites:

- Basic knowledge of JavaScript (for React Native)
- Understanding of Object-Oriented Programming (for Flutter)
- Prior experience with mobile development is a plus but not required



Report

Event Overview:

Department:	Computer Science and Engineering
Event Name:	Three Day workshop on Hybrid Mobile App Development using Flutter and React Native
Date:	03 rd April 2025
Duration:	3 Days
Time:	09:30 AM (3 rd April 2025) to 04:30 PM (5 th April 2025)
Organized by:	Dr. Gaurav Sharma
Number of Participants:	71
Venue:	Computer Lab-06, First Floor, HSST Building
Coordinator:	Dr. Gaurav Sharma, Dr. Gunjan Chhabra

Objective: This workshop aspires to ignite innovation by immersing participants in the dynamic world of hybrid mobile app development with Flutter and React Native. Through hands-on learning and real-world application, attendees will craft seamless apps that bridge Android and iOS platforms. The goal is to empower future developers with cutting-edge skills that redefine how mobile experiences are built.

Summary:

A three-day workshop on Hybrid Mobile App Development using Flutter and React Native was successfully conducted, offering participants an immersive and enriching learning experience. The workshop provided valuable insights into modern app development practices and hands-on exposure to building cross-platform mobile applications. Attendees actively engaged in practical sessions, learning to create responsive and feature-rich apps compatible with both Android and iOS platforms. The sessions were led by experienced mentors who guided participants through real-world projects, fostering a strong understanding of UI/UX design, performance optimization, and code structuring. The workshop not only enhanced technical skills but also inspired creativity and innovation among budding developers. Overall, it served as a significant stepping stone for many participants in their journey toward becoming proficient mobile app developers.



हिमालयन विज्ञान एवं प्रौद्योगिकी स्कूल
स्वामी राम हिमालयन विश्वविद्यालय की एक शैक्षणिक इकाई

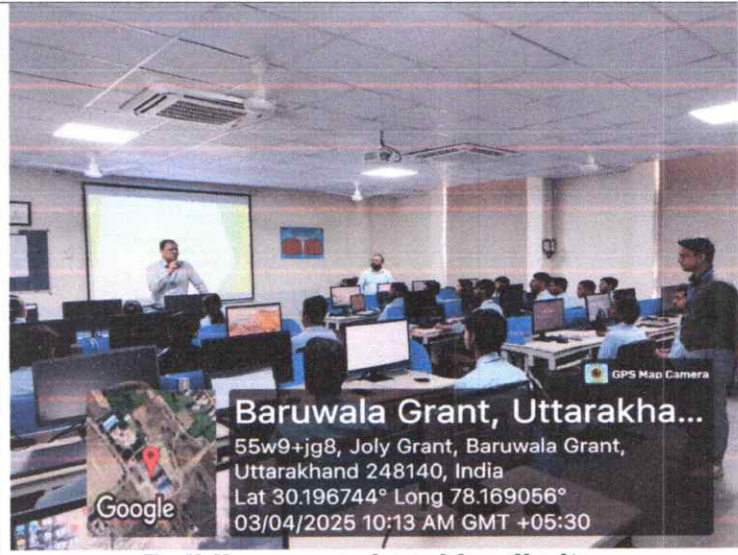


Himalayan School of Science and Technology
A Constituent Academic Unit of Swami Rama Himalayan University

Some glimpses of activity



Fueling tomorrow's developers.



Building apps, breaking limits.



Next-gen developers at work.



Tech minds in action.

Dr. Gaurav Sharma
Event Coordinator
HSST

Dr. Gunjan Chhabra
Event Coordinator
HSST

Dr. Pramod Kumar
Principal
HSST

Principal
Himalayan School of Science & Technology
Swami Rama Himalayan University
Dehradun

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32	Shilpi	DD231104303009	B.Tech (Any Specialization)	IV	Shilpi	Shilpi	Shilpi	Shilpi	Shilpi	Shilpi
33	Vishal yada	DD241204303002	B.Tech (Any Specialization)	IV	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
34	Hipendra singh	DD231104303019	B.Tech (Any Specialization)	IV	Hipendra	Hipendra	Hipendra	Hipendra	Hipendra	Hipendra
35	Tushar Kamboj	DD231104303007	B.Tech (Any Specialization)	IV	Tushar	Tushar	Tushar	Tushar	Tushar	Tushar
36	Alok Kumar Rajbhar	DD231104303032	B.Tech (Any Specialization)	IV	Alok	Alok	Alok	Alok	Alok	Alok
37	Srishti Bisht	DD231104303008	B.Tech (Any Specialization)	IV	Srishti	Srishti	Srishti	Srishti	Srishti	Srishti
38	Ayushsakhani	DD231104303026	B.Tech (Any Specialization)	IV	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush
39	Swapnil Chauhan	DD231104303035	B.Tech (Any Specialization)	IV	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil
40	Pratham singh	DD231104303012	B.Tech (Any Specialization)	IV	Pratham	Pratham	Pratham	Pratham	Pratham	Pratham
41	Shivani Nautiyal	DD231104303024	B.Tech (Any Specialization)	IV	Shivani	Shivani	Shivani	Shivani	Shivani	Shivani
42	Ranveer Singh saini	DD231104307018	B.Tech (Any Specialization)	IV	Ranveer	Ranveer	Ranveer	Ranveer	Ranveer	Ranveer
43	shubham bhatt	DD231104303034	B.Tech (Any Specialization)	IV	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
44	Megha	DD231104303036	B.Tech (Any Specialization)	IV	Megha	Megha	Megha	Megha	Megha	Megha
45	Ashmit Negi	DD231104303022	B.Tech (Any Specialization)	IV	Ashmit	Ashmit	Ashmit	Ashmit	Ashmit	Ashmit
46	Alka	DD231104303018	B.Tech (Any Specialization)	IV	Alka	Alka	Alka	Alka	Alka	Alka
47	Mayanka	DD231104303016	B.Tech (Any Specialization)	IV	Mayanka	Mayanka	Mayanka	Mayanka	Mayanka	Mayanka
48	Abhay Sachan	DD231104307010	B.Tech (Any Specialization)	IV	Abhay	Abhay	Abhay	Abhay	Abhay	Abhay
49	Jaanvi mahant	DD231104307002	B.Tech (Any Specialization)	IV	Jaanvi	Jaanvi	Jaanvi	Jaanvi	Jaanvi	Jaanvi
50	Akshat Gairola	DD231104307007	B.Tech (Any Specialization)	IV	Akshat	Akshat	Akshat	Akshat	Akshat	Akshat
51	Kashish	DD231104307016	B.Tech (Any Specialization)	IV	Kashish	Kashish	Kashish	Kashish	Kashish	Kashish
52	Himanshu panwar	DD231104307015	B.Tech (Any Specialization)	IV	Himanshu	Himanshu	Himanshu	Himanshu	Himanshu	Himanshu
53	Srishti panwar	DD231104303027	B.Tech (Any Specialization)	IV	Srishti	Srishti	Srishti	Srishti	Srishti	Srishti
54	Shubham Gangari	DD231104303021	B.Tech (Any Specialization)	IV	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
55	Sparsh Yadav	DD231104303001	B.Tech (Any Specialization)	IV	Sparsh	Sparsh	Sparsh	Sparsh	Sparsh	Sparsh
56	Harit	DD231104307006	B.Tech (Any Specialization)	IV	Harit	Harit	Harit	Harit	Harit	Harit
57	Rudraksh negi	Dd321104303033	B.Tech (Any Specialization)	IV	Rudraksh	Rudraksh	Rudraksh	Rudraksh	Rudraksh	Rudraksh
58	Ankit Ramola	DD231104307008	B.Tech (Any Specialization)	IV	Ankit	Ankit	Ankit	Ankit	Ankit	Ankit
59	Kavya Pant	DD231104307009	B.Tech (Any Specialization)	IV	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya
60	Anant Singh Pal	DD241204303001	B.Tech (Any Specialization)	IV	Anant	Anant	Anant	Anant	Anant	Anant
61	Anishka Negi	DD231104303023	B.Tech (Any Specialization)	IV	Anishka	Anishka	Anishka	Anishka	Anishka	Anishka
62	Khushbu bhatt	DD231104303010	B.Tech (Any Specialization)	IV	Khushbu	Khushbu	Khushbu	Khushbu	Khushbu	Khushbu
63	Tarajit Kaur	DD231104310005	B.Sc. (Hono.) Data Science	IV	Tarajit	Tarajit	Tarajit	Tarajit	Tarajit	Tarajit
64	Debalj Aswal	DD231104310003	B.Sc. (Hono.) Data Sci	IV	Debalj	Debalj	Debalj	Debalj	Debalj	Debalj
65	Prumanjot Kaur	DD231104303031	B.Tech	IV	Prumanjot	Prumanjot	Prumanjot	Prumanjot	Prumanjot	Prumanjot
66	Saurabh Kapur	DD231104307017	B.Tech. CSE. (AI/ML)	IV	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh
67	Neha	DD231104303005	B.Tech CSE	IV	Neha	Neha	Neha	Neha	Neha	Neha
68	Priyanshu Sharma	DD22111308001	B.Tech CSE	VI	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu	Priyanshu

Medical

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69	Hridayesh Srivastava	DD231104301073	BCA	IV	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
70	Harsh Dhami	DD231104307003	B.Tech	II	Harsh					
71	Anuj Anand	DD22111307006	B.Tech	VI	Anuj	Anuj	Anuj	Anuj	Anuj	Anuj
72	Mudit Pandit	DD241204303003	B.Tech	V	Mudit		Anuj	Anuj	Anuj	Anuj
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Signature of Event Coordinator Dr. Gaurav Sharma

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05/04/25

Signature of Event Coordinator Dr. Gunjan Chhabra

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Signature of Principal HSST,SRHU Prof. Pramod Kumar

Handwritten signature in blue ink

Principal
Himalayan School of Science & Technology
Swami Rama Himalayan University
Dehradun

SWAMI RAMA HIMALAYAN UNIVERSITY
OFFICE OF THE REGISTRAR

SRHU/Reg./Int./2025- [71

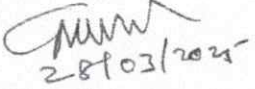
Date: 28th March 2025

The Principal
Himalayan School of Science and Technology
Swami Rama Himalayan University

1. This has reference to your letter no. SRHU/HSST/Int./2025/77 dated 24.03.2025, seeking approval of the following:

- a) Approval for conducting the three days' workshop on Hybrid Mobile App Development using Flutter and React Native to be held in the last week of April 2025.
- b) Invite the Guest Speaker (Mr. Faby Mathew, Excain Ltd. Dehradun) for the above-mentioned workshop.
- c) Budgetary approval of Rs. 16,000/- towards the Honorarium to Guest Speaker and cost of Banner/Flex and Standee.

2. The permission of the competent authority, is hereby conveyed, for the above said purposes.


28/03/2025
Registrar

Copy to:

Hon'ble President

Hon'ble Vice Chancellor

Director General (Academic Development)

Finance Officer

} for kind information, please