वीर माधो सिंह भण्डारी उत्तराखण्ड प्रौद्योगिकी विश्वविद्यालय
(उत्तराखण्ड सरकार द्वारा अधिनियम 415/2005 द्वारा स्थापित पूर्ववर्ती उत्तराखण्ड तकनीकी विश्वविद्यालय)
Veer Madho Singh Bhandari Uttarakhand Technical University
(Formerly Uttarakhand Technical University Established by Act no. 415/2005 by Uttarakhand Government)
Chakrata Road, P.O. Chandanwadi, Premnagar, Suddhowala, Dehradun, Uttarakhand(India)
Tel.No.0135-2774067 Website: www.uktech.ac.in

पत्रांक: 2908/वी०मा०सिं०भ०उ०प्रौ०वि०वि०/2026 दिनांक: 25.11.2026

To,

The Directors/Dean/Principals
All Colleges/Institutes/Universities

Subject: Regarding the Registration link, Guidelines, and Rules for Mobile Application Development Hackathon on the theme "Nasha Mukti (Drug-Free India)".

Sir/Madam,

We are pleased to inform you that Veer Madho Singh Bhandari Uttarakhand Technical University is organizing a Mobile Application Development Hackathon under the national mission **"Nasha Mukti" (Drug-Free India)** for students of all Colleges/Institutes/Universities. This competition invites students to develop useful, accessible, and original mobile applications promoting awareness, prevention, educational resources, help-seeking information, and community engagement.

All participating institutes must organise an institute-level hackathon on or before 15-12-2026 and submit their top 1 entry to the university through official channels. The first evaluation round will be held in the second week of January, 2027. The university-level hackathon will be in the month of February (Date will be notified later). We kindly request you to encourage maximum student participation in this vital social initiative.

Theme & Core Objective:

The competition focuses on building low-bandwidth, offline-first mobile applications addressing substance-use prevention. Key modules include Phase 1 core capabilities (Multilingual Learn Hub, WHO ASSIST/AUDIT Self-Check, One-Tap Emergency Calling, Treatment Centre Finder, Recovery & Nicotine Trackers, Digital Pledge) and Phase 2 AI/ML features (LSTM craving predictors, sentiment analysis, moderated peer support).

Registration Link & Details : https://forms.cloud.microsoft/r/QvbjuNfLkk

- Institute-Level Hackathon Deadline: On or before 15-12-2026.
- University Submission Deadline: On or before 20-12-2026 through official email to nmbh.vmsbutu@uktech.net.in
- First evaluation round will be done in the second week of January,2026
- Final round will be held in university in the month of February 2027.

Enclosures (Attached Files):

1. NOC Form:
2. Team Registration & Nomination Form:
3. Guidelines & Technical Constraints:
4. Evaluation Criteria & Result Summary:

Your Sincerely

(Dr. Aayush Joshi)
Registrar

C.C.:

1. PS to VC, VMSB UTU Dehradun
2. FC, VMSB UTU Dehradun
3. COE, VMSB UTU Dehradun
4. Web Master to upload on the University website and send to all concerned Colleges.
5. All coordinators of different tracks for necessary actions at their end.
6. Office copy

(Dr. Aayush Joshi)
Registrar

Veer Madho Singh Bhandari Uttarakhand Technical University

Application Development Hackathon | Theme: Nasha Mukti (Drug-Free India)

NO OBJECTION CERTIFICATE (NOC)

and Team Declaration and Consent Form

PART A: TEAM AND APPLICATION DETAILS

Name of Institute	
Team name	
Name of application	
Primary contact person	
Contact mobile / email	
Date of institute-level hackathon	

PART B: TEAM MEMBERS (4 TO 6 MEMBERS, AT LEAST TWO FEMALE MEMBERS)

S. No.	Name of student	Course / Programme	Department and Year / Sem.	Enrolment No.	Mobile / Email	Signature
1						
2						
3						
4						
5						
6						

Female members in the team: _____ Primary contact person (S. No.): _____

PART C: DECLARATION AND NO OBJECTION

We, the undersigned members of the team named in Part A, students of the Institute named above, hereby declare and certify as follows:

1. **Participation.** We are participating voluntarily in the Application Development Hackathon on the theme "Nasha Mukti (Drug-Free India)" and have read, understood and agree to abide by the Guidelines for App Development issued by the University.
2. **Eligibility.** All team members are bonafide students of the same Institute. The team consists of four to six members and includes at least two female members.
3. **Originality.** The application submitted is our original work, except for the third-party components disclosed in Part D. No plagiarised, unauthorised or infringing material has been used, and we have disclosed all open-source software, templates, AI-assisted tools and external services used in its development.
4. **No objection to vesting of rights.** We have no objection to the copyright and intellectual property rights in the application developed for this competition, including its source code, design, documentation and related deliverables, vesting in Veer Madho Singh Bhandari Uttarakhand Technical University, subject to applicable law and third-party licence terms. We agree to sign any declaration or assignment document reasonably required by the University to record such vesting.
5. **Pre-existing and third-party materials.** We have identified in Part D all pre-existing, third-party or open-source materials that are not owned by us and cannot be transferred to the University.
6. **Use by the University.** We have no objection to the University using, reproducing, modifying, maintaining, publishing, demonstrating, distributing or further developing the application for educational, research, awareness, outreach and other institutional purposes, subject to applicable law and third-party licences.
7. **Privacy and security.** The application collects only the data necessary for its stated purpose. We have not included confidential information, personal data or materials for which we do not have the necessary rights or permissions, and we have used demo or test data wherever possible. The application contains no hard-coded passwords, exposed API keys or unjustified device permissions.
8. **Demonstration and verification.** We shall demonstrate the application to the evaluation committee at the institute level and the University level, and shall explain the design, development process and our individual contributions when asked.
9. **Disqualification and decision.** We understand that plagiarism, false information, copyright infringement, malicious functionality or failure to meet the mandatory submission requirements may result in disqualification, and that the decision of the organising committee shall be final, subject to the University's applicable rules and procedures.

The signatures of all team members in Part B constitute acceptance of this declaration.

Place: _____ Date: _____

PART D: THIRD-PARTY, OPEN-SOURCE AND AI-ASSISTED MATERIAL

List every library, template, dataset, asset, AI-assisted tool or external service used. Write "None" if not applicable.

S. No.	Name of component / tool	Type (library, asset, dataset, AI tool, service)	Licence / source
1			
2			
3			

S. No.	Name of component / tool	Type (library, asset, dataset, AI tool, service)	Licence / source
4			
5			

Part E: Endorsement by the Institute

This is to certify that the above-named students are bonafide students of this Institute, that the team was selected at the institute-level hackathon, and that the Institute has no objection to the nomination of the team to the University round.

Faculty Coordinator	Head of Department / Director
Name:	Name:
Designation:	Designation:
Date:	Date:
Signature:	Signature and Institute seal:

Veer Madho Singh Bhandari Uttarakhand Technical University

Application Development Hackathon | Theme: Nasha Mukti (Drug-Free India)

TEAM REGISTRATION AND NOMINATION FORM

To be submitted separately for each team nominated by the Institute (only 1 team)

PART A: INSTITUTE DETAILS

Name of Institute	
Address	
Official email of Institute	
Date of institute-level hackathon	

PART B: TEAM AND APPLICATION DETAILS

Team name	
Name of application	
Version	
Minimum Android version required	
Framework / technology used	
Short description of the application	
Primary contact person	
Contact mobile / email	

PART C: TEAM MEMBERS (4 TO 6, AT LEAST TWO FEMALE)

S. No.	Name of student	Gender (M/F)	Course / Programme	Department and Year / Sem.	Enrolment No.	Mobile / Email
1						
2						

S. No.	Name of student	Gender (M/F)	Course / Programme	Department and Year / Sem.	Enrolment No.	Mobile / Email
3						
4						
5						
6						

PART D: FACULTY COORDINATORS

S. No.	Name	Designation and Department	Mobile / Email
1			
2			

PART E: SUBMISSION CHECKLIST (TICK WHERE COMPLETED)

[ ]	The team was selected at the institute-level hackathon held on or before 15 December 2026.
[ ]	The team has 4 to 6 members from the same Institute, including at least two female members.
[ ]	Phase 1 features are implemented: Learn Hub, Private Self-Check, Helpline and Emergency Connect, Treatment Centre Finder, Recovery and Nicotine Trackers, Pledge and Campaigns, and multi-user login with role-based access.
[ ]	Privacy and security requirements are met, including compliance with the DPDP Act, 2023, and no hard-coded passwords or exposed API keys.
[ ]	A working Android APK is ready, named as TeamName_AppName_Version.apk.
[ ]	A brief project report, screenshots of the main screens and a demonstration video (maximum 5 minutes) are prepared.
[ ]	The NOC and Team Declaration Form is signed by all team members.
[ ]	The Institute is nominating a maximum of only one team to the University.

PART F: CERTIFICATION AND SIGNATURE OF THE DIRECTOR

This is to certify that the particulars furnished above are correct to the best of my knowledge; that all the members named in Part C are bonafide students of this Institute; that the team was selected at the institute-level hackathon held on the date stated in Part A; and that the Institute hereby registers and nominates the team to the University round of the Application Development Hackathon.

Director of the Institute	**Institute seal**
Name:	
Designation: Director	
Place:	
Date:	
Signature:	

Veer Madho Singh Bhandari Uttarakhand Technical University

Application Development Hackathon | Theme: Nasha Mukti (Drug-Free India)

RESULT SUMMARY: INSTITUTE-LEVEL HACKATHON

To be submitted by the Institute to the University along with its nominations

PART A: INSTITUTE AND EVENT DETAILS

Name of Institute	
Date of institute-level hackathon	
Venue / mode	
Total teams that participated	
Total students who participated	
Convener / Faculty coordinator	
Contact mobile / email	

PART B: EVALUATION COMMITTEE

S. No.	Name	Designation and organisation	Signature
1			
2			
3			
4			

PART C: TEAMS NOMINATED TO THE UNIVERSITY (MAXIMUM TWO)

Nom. No.	Team name	Name of application	Total score (out of 100)	Rank at institute level	Primary contact (name and mobile)
1					
2					

PART D: REMARKS OF THE EVALUATION COMMITTEE

Overall quality of submissions	
Strengths of the nominated teams	
Areas for improvement before the University round	

PART E: CONFIRMATIONS (TICK WHERE COMPLETED)

[ ]	The hackathon was held at the institute level on or before 15 December 2026.
[ ]	All participating teams were evaluated using the University's criteria (total 100 marks) and are listed in the Annexure.
[ ]	Each nominated team has 4 to 6 members from this Institute, including at least two female members.
[ ]	Each nominated team has completed the Phase 1 features and has a working Android APK.
[ ]	The Team Registration and Nomination Form and the NOC and Team Declaration Form of each nominated team are enclosed.
[ ]	Only one team should be nominated by the Institute.

PART F: CERTIFICATION AND SIGNATURES

This is to certify that the institute-level hackathon was conducted on the date stated in Part A in accordance with the University's guidelines; that the scores and ranks given in Part C and the Annexure are a true record of the evaluation; and that the teams listed in Part C are hereby nominated to the University round of the Application Development Hackathon.

Faculty Coordinator	**Chair, Evaluation Committee**	**Director of the Institute**
Name:	Name:	Name:
Designation:	Designation:	Designation: Director
Date:	Date:	Date:
Signature:	Signature:	Signature and Institute seal:

ANNEXURE: CONSOLIDATED SCORECARD OF ALL PARTICIPATING TEAMS

Evaluation criteria of the University, total 100 marks. Name of Institute:

_____

S. No.	Team name	Name of application	AI and Technical Innovation (25)	Policy and Local Relevance (20)	User Experience and Accessibility (20)	Data Privacy and Ethics (20)	Feasibility and Pitch (15)	Total (100)	Rank
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Signature of Chair, Evaluation Committee: _____

Date: _____

Veer Madho Singh Bhandari Uttarakhand Technical University

GUIDELINES FOR APP DEVELOPMENT

Theme: NASHA MUKTI (Drug-Free India)

These guidelines are intended to ensure that student-developed applications promote awareness, prevention, education and support related to substance-use prevention under the Nasha Mukti theme.

1. Objective

Students are invited to develop a useful, accessible and original mobile application that supports the Nasha Mukti mission. Applications may focus on awareness, prevention, educational resources, help-seeking information, community engagement or other relevant solutions.The institute should organise the internal level hackathon on or before 15/12/2026 and should submit the data to university by 20/12/2026 . There will be one or two online evaluation rounds which will be notified to the teams selected and final round will be in the VMSBUTU premises in the month of February,2027.

2. Eligibility and Team Details

- The competition is open to students as specified by the organising university/institute.
- Individual participation or team participation will be permitted as announced by the organisers.
- Each submission must include the names, course/programme, department, year/semester and contact details of the student(s).
- A team must nominate one member as the primary contact person.
- **Eligibility & Team Formation:** All students should be from the same Institute and team members can range from 4-6 with 2 females members mandatory.
- **Data Privacy & Ethics Compliance:** Solutions must integrate zero-knowledge anonymity by default, adhere strictly to the Digital Personal Data Protection (DPDP) Act, 2023, ensure India-region data hosting, and feature robust crisis-escalation safety protocols.
- **Technical Constraints:** Mobile clients must target low-bandwidth environments (2 GB RAM devices, under 40 MB app size) with offline-first capabilities.
- **Clinical & Safety Guardrails:** AI screening models must never render medical diagnoses (advisory guidance only), and optional image-classification features must process data transiently without permanent user face logging.
- Institute should organize the hackathon on institute level on or before 15 December,2026 and should nominate only 1 team to the university through official mail before 20/12/26.

3. Theme and Content Requirement

Core Application Capabilities & Features

Phase 1

- **Learn Hub:** Multilingual educational content (text, audio, video) regarding alcohol, tobacco, cannabis, opioids, inhalants, and pills, available offline.
- **Private Self-Check:** Validated WHO ASSIST and AUDIT questionnaires providing non-diagnostic risk guidance (Low, Moderate, High) while maintaining complete user anonymity.

- **Helpline & Emergency Connect:** One-tap calling to national helplines including **NMBA (14446)**, **Tele-MANAS (14416)**, and **MANAS (1933)**, backed by a crisis screen for immediate emergency assistance.
- **Treatment Centre Finder:** An OpenStreetMap-based spatial directory matching users to verified government and accredited de-addiction hubs by proximity, language, and dependence type.
- **Recovery & Nicotine Trackers:** Sobriety day counters, daily mood/craving check-ins, personal triggers, relapse-prevention plans, and daily nicotine reduction tracking logs.
- **Pledge & Campaigns:** Digital Nasha Mukt pledges for individuals and academic campuses with shareable certificates and leaderboards.

AI/ML Core Modules (Phase 2):

- Time-series LSTM models for predicting peak craving hours and sending pre-emptive coping prompts.
- Sentiment analysis NLP supporting Hindi, Garhwali, Kumaoni, and English to detect self-harm or distress for human counselor handovers.
- Moderated peer support communities with real-time text filtering against trigger words or illicit sales.
- Optional, consent-based selfie wellbeing check for flagging visible signs of acute distress without face-matching or data logging.
- Isolated, anonymous tip channels for reporting drug sales near educational institutions.

4. Mandatory Submission Requirements

- A working Android APK file must be submitted for installation and evaluation.
- **Track A (Mobile App & UX):** Build a cross-platform Flutter or React Native etc front-end focusing on accessibility, sub-40 MB app size, offline usability, and regional language support (Hindi, Garhwali, Kumaoni, English).
- **Track B (AI/ML & Analytics):** Develop adaptive risk-scoring engines, sentiment analysis tools, LSTM-based craving predictors, and anonymized district analytics dashboards.
- **Track C (Cybersecurity & Governance):** Implement strict DPDP Act, 2023 compliance, anonymous-tip channel isolation, role-based access controls, and secure India-hosted backend architectures.
- The APK must install and run on a compatible Android device without avoidable errors.
- Students must submit the application name, version, a short description and minimum Android version required.
- The submission must include a brief project report describing the problem addressed, objectives, key features, technology/ tools used and instructions for running the app.
- Students must provide screenshots of the main screens and a short demonstration video, if requested by the organisers.
- Source code and build instructions must be submitted if required by the organising committee for verification, maintenance or further development.
- All files must be submitted by the announced deadline and through the specified submission method. Late or incomplete submissions may be disqualified.

5. Originality and Use of Third-Party Material

- The submitted application must be the original work of the participating student(s), except for properly acknowledged third-party components.

- Any third-party code, libraries, images, fonts, music, datasets or other assets must be used in accordance with their licences and attribution requirements.
- Students must disclose any open-source software, templates, AI-assisted tools or external services used in development, where applicable.
- Plagiarism, unauthorised copying, infringement of third-party rights or false claims of authorship may result in disqualification.

6. Copyright and Intellectual Property

- As a condition of participation, students shall agree that the copyright and intellectual property rights in the application developed specifically for this competition, including its source code, design, documentation and related deliverables, shall vest in Veer Madho Singh Bhandari Uttarakhand Technical University, subject to applicable law and any third-party licence terms.
- Students must sign any declaration or assignment document reasonably required by the University to record the transfer or vesting of such rights.
- Students must identify any pre-existing materials, third-party components or open-source components that are not owned by the students and cannot be transferred to the University.
- The University may use, reproduce, modify, maintain, publish, demonstrate, distribute or further develop the submitted application for educational, research, awareness, outreach and other institutional purposes, subject to applicable law and third-party licences.
- Students must not include confidential information, personal data or materials for which they do not have the necessary rights or permissions.

Important: The organisers should obtain a signed IP assignment/consent form and have this clause reviewed by the University's authorised legal or administrative office before publication, particularly if the University intends to claim ownership of all deliverables.

7. Privacy, Security and Permissions

- The app should collect only the data necessary for its stated purpose.
- If personal data is collected, the app must clearly explain what is collected, why it is collected and how it is handled.
- Students must avoid hard-coded passwords, exposed API keys, insecure storage and unnecessary device permissions.
- Any login, location, camera, microphone or other sensitive permission must be justified by the app's functionality.
- Demo or test data should be used wherever possible. Students must not submit another person's personal or sensitive information without proper authorisation.

8. Technical and Usability Requirements

- The app should have a clear, simple and accessible user interface.
- Navigation, buttons, forms and key features should work as described.
- The app should handle invalid input and common errors gracefully.
- The app should identify any internet connectivity requirement and clearly communicate features that work offline.
- The app should be tested on at least one Android device or emulator before submission.
- The APK should be named clearly, for example: TeamName_AppName_Version.apk.

9. Evaluation Criteria

Criterion	Marks	What is assessed
AI and technical innovation	25	NLP, ML-based prediction and smart routing.
Policy and local relevance	20	Alignment with the Nasha Mukt Devbhumi Mission and national NMBA goals.
User experience and accessibility	20	App size under 25 MB, offline use, local languages, ease of use.
Data privacy and ethics	20	DPDP compliance, clinical safety, anonymity architecture, crisis escalation.
Feasibility and pitch	15	Scalability across state institutions, deployment readiness, live demo quality.

10. Demonstration and Verification

- Students must demonstrate the application to the evaluation committee in institute level as well as university.
- The committee may check installation, core functionality, originality, permissions, documentation and compliance with these guidelines.
- Students should be prepared to explain the design, development process and their individual/team contributions.

11. Disqualification

- A submission may be disqualified for plagiarism, false information, copyright infringement, malicious functionality, failure to meet mandatory submission requirements or violation of the competition rules.
- The organising committee's decision on eligibility and evaluation shall be final, subject to the University's applicable rules and procedures.