

#### BLUEPRINT PLAN OF DIGITIZATION AND CONNECTIVITY

2081-2086



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GRAMODAYA YUGAKABI SIDDHICHARAN CAMPUS (GYSC)

Likhu-06, Gamnang, Okhaldhunga



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### INTRODUCTION

beauty, cultural heritage. It is situated in hilly land with extreme geographic divide in the district is also driven by a lack of stable electricity since most research indicates the digital literacy rate of the nation to be only 31%. The digital subsistence agriculture as a livelihood and has minimal access to modern tools. socio-economic Okhaldhunga, hilly rural districts of Koshi Province, is characterized by natural job opportunities underscores the necessity to create local opportunities through households use micro-hydro power. Low digital literacy, particularly for women, has been unequal on logistical, economic, and technical bases advancement of ICT in Nepal. But, its rollout in remote districts like Okhaldhunga and education at the national level, aiming to raise digital literacy and support the digitization. Digital Nepal Framework 2022 accord very high priority to connectivity digital economy. Migration of youths to urban centers in pursuit of education and penetration of smartphones and computers makes it difficult to participate in the citizens, limitations. More than and rural residents, also serves to compound the gap. 80% of the population depends

those from economically disadvantaged backgrounds engaged in agriculture Okhaldhunga district, serves as an essential educational hub for students, particularly Gamnangtar, located along the Likhu River in the Likhu Rural Municipality

campus actively contributes to the educational development of the region higher education. the educational needs of daughters and daughters-in-law who lack access to urban role in providing higher education opportunities, especially for females, addressing Education (B.Ed) program under Tribhuvan University. This campus plays a crucial The Gramodaya Yugakabi Siddhicharan Campus offers a four-year Bachelor of With approximately 250 students and 12 faculty members, the



telemedicine services. Arising the necessity and demand of connectivity even in the as hubs for digital literacy initiatives rural areas like Gamnangtar, Gramodaya Yugakabi Siddhicharan Campus can serve 2019 pandemic has exposed the shortcomings in distance learning and

#### OBJECTIVES

### GENERAL OBJECTIVE

digital connectivity, streamline campus operations, and improve access to online learning resources and remote learning To build the capacity of Gramodaya Yugakabi Siddhicharan Campus to enhance

## SPECIFIC OBJECTIVES

- networking infrastructure of Campus; campus for students and staff. Build Information Technology (IT) and Enhance internet connectivity: Ensure fast, reliable internet access on
- digitalization of campus operations and processes; Digitize campus operations: Acquire/customize software and provide for
- to online resources like journals and books, and provide access to digital Establish e-learning and digital resources: Develop an e-library, subscribe learning platforms
- importance and uses in Teaching-learning process training Capacity Building on Technology Integration opportunities to faculty and students in Teaching: about digital tools,
- academic progress. Developing students' digital record: Maintaining digital records of students'



students to enhance learning activities Establish virtual classroom: Providing virtual classroom opportunities to the

### PRESENT STATUS

challenges At present, Gramodaya Yugakabi Siddhicharan Campus faces severl significant

- V networks and irregular fiber connectivity Limited internet access: Currently, the campus relies on basic
- V teaching and learning process Inadequate computer resources: There is both students and lecturers, hindering the integration of digital tools into a severe lack of computers for
- V Lack of e-learning platforms: There is lack of established platforms for online resource access
- V Manual record-keeping: The campus still heavily relies on paper-based records for administrative works, leading to difficulties in data management
- V academic and extracurricular achievements is outdated and inefficient Poor student record keeping: The record-keeping system for students

## STRATEGIES AND ACTIVITIES

# 1. Assess and Build IT & Networking Infrastructure

network connectivity. Under this plan, an assessment of the existing and needed Sufficient and reliable IT and networking infrastructure is prerequisite to hardware and networking infrastructure will be made in respect of:

Broad band internet and Wi Fi connection: Expand internet access by wide Wi-Fi establishing a stable broad band connection and implementing campus-



sharing Server and workstation computers; workstations and servers for smoother internal communications and data L N setup: Set up a local area network (LAN) that will connect

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- Remote learning equipment: Procure necessary tools, such as laptops. projectors, screen, etc. to facilitate remote learning and online education
- CCTV and security equipment: Install CCTV cameras to ensure security and observation on campus
- Document Scanner: Acquire scanners for digitizing physical documents records, and materials

challenge of rural students lacking home internet On-campus internet access points would ensure connectivity, addressing

will be acquired for distribution to students at subsidized rates. process will be initiated to get the items. In addition to this, necessary data packs assessing and identifying items that will need to be acquired, a purchase

Time line: This task will be completed by the end of 2082 B.S

Expected cost: 400 thousand rupees

## 2. Digitalize Campus Operations

changing times. To that end, the Campus will implement the following tasks: needed in order to achieve better efficiency, transparency and also keep up with Digitalization of all academic, administrative and financial processes of Campus is

- academic records, administrative tasks, and financial management Campus Management: Acquiring software like EMIS for automating
- facilitate virtual classes, discussions and remote learning Microsoft Teams for virtual classrooms: Provide access to MS-Teams to
- Digitize past campus records: Conversion of paper based records into digital formats for better storage and management



- W. C.
  - Maintain and update Campus website: Develop and regularly update the campus website, to access important information to students and faculty
  - Staff Training: Train teachers and staff on use of Campus Management/EMIS, Virtual Classroom, Digitization, and website maintenance, ensuring smooth integration into campus operations

Budget and timeline for implementing these activities is expected as follows:

Activity	Time	Budget Rs.	Remarks
Identify, evaluate/test, customize, and acquire Campus Management/EMIS software - open source or paid, Arrange access to Microsoft	l .		
Teams	By end of	50 Thousand	
Digitize past Campus admin/finance records	2083 B.S		
Website establishment and update website	Regular	60 Thousand per year	
Training of teachers and staff about the software systems	2081/82 B.S	40 thousand	

#### 3. Develop E-library and Subscribe online resources

The Campus make wide range of learning resources available to students and teachers. We will arrange subscriptions to online Journals and E-books through various channels including through T.U Central Library. An e-library for learning



materials developed in house will be set up and developed. In this regard, the Campus will implement the activities as below:

- Create the awareness about the E-library and its benefit to students and faculty
- Set up an e-library system to store and retrieve digital materials developed inhouse by the Campus;
- in the e-library system; Digitize learning materials currently available in hardcopy and upload them
- Subscribe to wide range of online e-books and journals though TU Central library and other sources;
- retrieval and use by students and faculty Make catalog of books available in the library on the internet/LAN, for easy
- Provide training to staff on online catalog and e-library maintenance and updating

Time line: 2083 B.S

Budget: 60 Thousand per year

# 4. Training, Capacity Building and Technology Integration in Teaching

- internet usage, and online research Workshops on basic IT skills: Train students and faculty on using computer,
- V audiovisual systems, facilitating interactive teaching and learning activities Classroom technology: Equipping classrooms with projectors, and
- V exams, and feedback Digital tools for assessments: Use of E-tools like google forms for quizzes,
- V Faculty training: On integrating digital tools into teaching, such as using interactive whiteboards and educational apps

Time line: 2082 B.S

Budget: 300 Thousand





#### CS CamScanner

# 5. Developing students digital record

- Academic records: Maintain digital records of students' academic progress, grades, and attendance
- V Link to government portals: Ensure that student records are accessible through scholarship and government portals
- V Integration with e-learning platforms: Synchronizing records with online learning systems, allowing real-time tracking of student engagement and progress
- V Analytics for learning gaps: Use various e-platforms to identify learning gaps and recommend interventions

# PLAN IMPLEMENTATION, MONITORING AND EVALUATION

- Campus Management Team (CMT) will make necessary manpower and budget arrangements for implementation and monitoring of this plan.
- V CMT will identify funding sources including local government and UGC and approach them to obtain the funding.
- V CMT will monitor implementation of various activities mentioned above as parts of this blueprint plan. For this purpose, various monitoring mechanisms will be placed including periodic CMT meetings.
- V CMT will also make necessary arrangements for evaluation of different works carried out under this plan

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# CHALLENGES AND CONSIDERATIONS

- the rural location presents challenges, such as limited internet connectivity and power supply
- V economic disparities among students may hinder device access, requiring targeted interventions





- V irregular network connectivity interventions among the students in the locality may hinder the targeted
- V digital literacy levels among faculty and students may vary, necessitating robust training programs

#### CONCLUSION

represents The digitization blueprint for Gramodaya Yugakabi Okhaldhunga. By prioritizing robust IT infrastructure, digitized operations, accessible e-learning resources, the plan aims to empower students, particularly females from agrarian and economically marginalized backgrounds, with equitable access to modern education a transformative step toward bridging the digital divide Siddhicharan 3 Campus

The Campus faces significant challenges in digitization due to its remote location and financial limitations. However, the proposed blueprint outlines a structured pathway to transform the campus into a digitally enabled institution. By prioritizing administrative processes, systems will streamline operations, reduce paperwork, and high-speed internet, modern computer labs, and e-learning platforms, the campus students can leverage these tools effectively. improve transparency. Capacity-building workshops are critical to ensuring staff and the digital divide and enhance educational quality. Digitizing

skills, improve access to global knowledge resources, and position itself as a model progress in Nepal's underserved regions education but also serve as a replicable model for rural institutions, driving inclusive administration, the campus will enhance academic quality, operational efficiency, for rural education in Nepal. By embracing digitization, the Campus can empower students with 21st-century student employability. Over time, these efforts will not only uplift By integrating technology into teaching and



