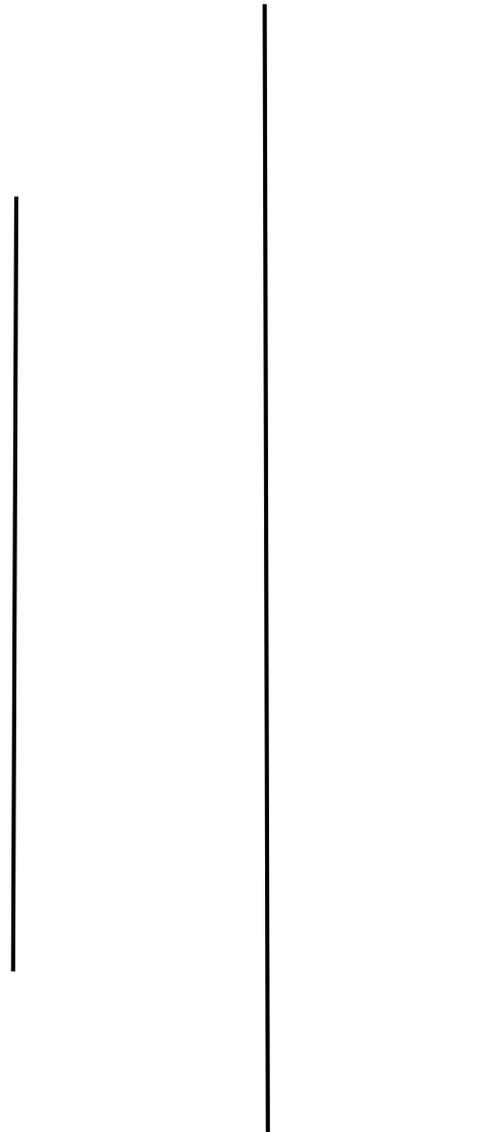


Technology Database & Networking

Integrated Rural Development Project/ Nepal Technology Innovation Center
(IRDP/NTIC)



Baseline Survey Report
Kathmandu University
Dhulikhel, Nepal
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Executive Summary

The baseline survey of Technology Database and Networking was conducted in the month of July among the Head of Departments and Faculties of all the Schools of Kathmandu University in order to understand the existing situation of Technology Database and Networking.

This survey and the report will act as the primary document to review and compare the results of the annual performance of this operation program and finally evaluate the overall achievement with the end-line results.

Introduction

Nepal Technology Innovation Centre's vision is to be a technology innovation platform of Nepal by 2035. In order to realize this vision, it is important to create a technology database and establish global cooperative systems. One of the main goals of NTIC is to collect, analyze and evaluate technology information, R&D and policy trends in key priority areas from relevant actors of Nepal and other foreign countries.

Objective

The major objective of the baseline survey is to study the current status of Technology Database and Networking at Kathmandu University.

Methodology

Review of Monitoring Matrix and Questionnaire Preparation

Initially, the monitoring matrix of Technology Database was reviewed and a questionnaire was developed. The questions were formulated in such a manner that their answers would provide information on the baseline of the indicators of Technology Database and Networking. After finalization of the questions, a google form was developed in order to circulate among the respondents through internet and collect the information in a single database

Information Collection

Google Form Survey

The google form was circulated among the Head of Department and Faculties of the 7 schools of Kathmandu University; School of Arts, School of Education, School of Engineering, School of Law, School of Management, School of Medical Sciences and School of Science. 17 responses were received from the faculties through the google form.

Phone Survey

The Head of different departments of 7 Schools of Kathmandu University were approached through phone call to get information about the status of target indicators related to technology database and networking in their department, as they would be the primary source of information and could attest to all the data. In total, 16 personnel were interviewed through phone.

Analysis of Information

Based on the data collected from google form as well as the information received from the phone interview, analysis was done using the Microsoft Excel for some of the quantifiable indicators and a collective summary was prepared in Microsoft Word.

Report Writing

After the analysis of information, a report was prepared explaining the scope, methodology, results and the discussions of the baseline survey for Technology Database and Networking.

Results

A monitoring matrix table is presented below contains the basic indicators for baseline survey to find out the current situation of Management of Technology (MoT) related courses at Kathmandu University.

| Indicators | | How is it going to be defined? |
|------------------|--|-------------------------------------|
| Networking | Number of Exchange events | Event Reports |
| | Number of participants in Training courses conducted by Science and Technology Experts | Attendance Sheets |
| Database Portals | Number of Database Portal Developed | Website |
| Promotion | Scale of Promotion Events and Number of participants | Event Reports and Attendance Sheets |
| | Number of Reports on R & D performance through media | News Archive |

The results from the baseline survey have been condensed and information related to the key indicators have been tabulated as follows

Database Portal

| S.N. | School | Database Portal Status |
|------|------------------|--|
| 1 | Arts | Google drive for students and faculty No other database portal |
| 2 | Education | Moodle for students and faculty KU Website for general information No other database portal |
| 3 | Engineering | MOOC platform for online class on programming KU Website for general information No other database portal |
| 4 | Law | KU Website for general information No other database portal |
| 5 | Management | Moodle and Google Drive for students and faculty KU Website for general information No other database portal |
| 6 | Medical Sciences | None for Academics MIDAS software for collection of information of hospital patients, closed access for hospital staff |
| 7 | Sciences | Google drive for students and faculty KU Website for general information No other database portal |

The schools of Kathmandu University are currently using google drive and Moodle for the academic purposes among faculty and students. The Kathmandu University website is the principal portal for information regarding faculty, academic courses, new and notices and other university related information. Massive Open Online Courses (MOOC) platform is used for programming related classes and a MIDAS Software is used at School of Medical Sciences for the hospital data collection. So, to

sum up, there is no such database portal that comprise of information on innovation and technology related to Agriculture, Health and Energy for open access.

Networking Events

| S.N. | School | Networking events | Average number of events in a year | Number of participants per event |
|------|------------------|---|------------------------------------|----------------------------------|
| 1 | Arts | Concerts | 1 | 500-1000 |
| | | Meetings with Experts | 4-7 | 15-20 |
| | | Online interaction with Faculty | 20 | 15-20 |
| 2 | Education | Interaction programs with prospective students outside valley (promotional events) | 2-4 | 30-40 |
| | | Alumni Functions | 1 | 40 |
| | | Community Engagement Webinars | 5-6 | 30-40 |
| | | Stakeholder Meetings | 5-6 | 30-40 |
| | | Technical Vocational Education Consultation | 2-3 | 20-30 |
| | | Subject Committee Meeting | 1 | 20-30 |
| 3 | Engineering | Strategic Meetings | 1 | 15-20 |
| | | 'Aviyantaa'- Annual exhibition in KU | 1 | 1000 |
| | | International Symposium | 1 | 100-120 |
| | | Academic and Industry Dialogue | 2-3 | 50-60 |
| | | Industry Collaboration Meeting | 2-3 | 50-60 |
| | | Networking with Foreign Collaborators | 1 | 100-120 |
| | | Higher Education Workshop | 1 | 40-50 |
| 4 | Law | Webinars and Talk Programs on different topics related to Law (Mostly virtual after Pandemic) | 10-15 | 20-100 |
| | | Faculty meetings | | |
| 5 | Management | KU-SoM Annual festival | 1 | 100-200 |
| | | Experts' session | 4-5 | 50-60 |
| | | Classes by Visiting Faculty | 2-4 | 50-60 |
| | | Networking meetings with industry | 2-3 | 20-30 |
| 6 | Medical Sciences | None | NA | NA |
| 7 | Science | Stakeholder Meetings | 1 | 20-25 |
| | | Webinars | 7-10 | 30-40 |
| | | National and International Conferences | 2-3 | 50-150 |
| | | Alumni Meetings | 1 | 25 |
| | | Networking Events | 2-3 | 30 |

There are various stakeholder meetings, dialogues, talk shows and webinars being conducted by different departments at Schools of Kathmandu University. These networking events can be in relation to academia, industry or international collaborators.

Training Courses

| S.N. | School | Training Courses | Average number of courses in a year | Number of participants in total over a year |
|------|------------------|--|-------------------------------------|---|
| 1 | Arts | Workshops on Intellectual Property Rights | 5-7 | 50-200 |
| | | No any specific training course | 0 | 0 |
| 2 | Education | Workshop on Teaching, Pedagogy and ICT | 1 | 30-40 |
| | | Workshops on Monitoring and Evaluation | 3-6 | 40-50 |
| | | Mix Method Training | Once in 2 years | 30 participants (Faculty, KU students, Scholars outside Ku) |
| | | Workshop on Scientific Writing | 2-3 | 40-50 |
| 3 | Engineering | MOOC platform through Digital Learning Lab | MOOC- Open | MOOC- Open |
| | | No any specific training course | 0 | 0 |
| 4 | Law | None | 0 | 0 |
| 5 | Management | None | 0 | 0 |
| 6 | Medical Sciences | Community Development Program through Public Health Department | 1 | National and International Students |
| | | No any specific training course | 0 | 0 |
| 7 | Sciences | Workshops on programming (R, Python/) | 2-3 | 150-200 |
| | | Workshops on Bio-informatics | 1 | 40 |
| | | No any specific training course | 0 | 0 |

There is the provision of different in- house workshops within the faculty and students of different schools. In addition, a training package is developed at School of Education named 'Mix Method Training' that occurs once in every two years targeting around 30 participants. Apart from these, there isn't any provision of a specific training courses like summer courses or professional courses at Kathmandu University till date.

Promotion

| S.N. | School | Reports on Research activities and outputs |
|------|------------------|---|
| 1 | Arts | None till date, work in progress to develop archives |
| 2 | Education | MS Research and Faculties' Research Publication in International Journal |
| | | Reports submitted to Grantee (World Vision International Nepal, Local Government) based on the project, but not publicly disseminated |
| | | Information related to activities updated in KU Website |
| 3 | Engineering | Publication of Abstract of Students' Researches in KU Website with yearly update |
| | | Paper Presentation of academic research in National and International Conference |
| 4 | Law | Information uploaded in Kathmandu University School of Law Website |
| 5 | Management | Research articles published in Business Management Journal |
| | | Information updated in KU website |
| 6 | Medical Sciences | No publication from institutional level |
| | | Individual students and faculty publish in Journals |
| 7 | Sciences | Abstracts of student's research published in KU Website |

The research conducted by students and faculty are published as articles in journals individually in almost all the schools, and in some, the research abstracts are uploaded in website but are updated annually. Some scholars give paper presentation in workshops, conferences or symposium, but it is on individual basis and there is no track record of those reports over any period of time. To conclude, there isn't any specific protocol or system to broadcast the research activities or outputs through any media inside Kathmandu University.

Conclusion

Based on the response from survey and, its data analysis and listing of the findings, it has been concluded that even though Kathmandu University has database and few other portals, a comprehensive central database is necessary.