

Master of Health Informatics (MHI)



Prospectus, 2026



Pokhara University
Faculty of Health Sciences

Message from the Dean
Dear prospective students!

Welcome to the Faculty of Health Sciences (FHS), Pokhara University!

It is with great pleasure and enthusiasm that I extend my warmest greetings to all prospective Master of Health informatics (MHI) candidates in Health Sciences. As Dean of the Faculty of Health Sciences, Pokhara University, it is my honor to introduce our inaugural Master of Health informatics (MHI) program, designed to foster scholarly excellence and innovation in the realm of health sciences.



At Pokhara University, we are committed to nurturing the next generation of leaders and researchers in the field of health sciences. Our Master of Health informatics (MHI) program stands as a testament to this commitment, offering a comprehensive curriculum that combines rigorous academic training with practical research experience.

As you embark on this transformative journey, you will have the chance to learn from experienced and respected faculty members who are experts in their fields. They will guide and mentor you throughout your academic journey to help you succeed.

One of the key strengths of our **Master of Health Informatics (MHI)** program is its interdisciplinary nature. We welcome students from a wide range of backgrounds, including health and medical sciences, computer science, engineering, information technology, mathematics, statistics, environmental sciences, and more. Applicants with a bachelor's degree in any discipline and at least one year of experience in health-related government organizations, research institutions, or NGOs/INGOs are also eligible. This mix of backgrounds creates a rich learning environment that encourages collaboration and the sharing of ideas. Together, you will learn to analyze health information to support better decision-making in healthcare and public health.

Our curriculum is thoughtfully designed to include core and elective courses along with a thesis, giving you the flexibility to focus on your interests and career goals. The MHI is a two-year program divided into four semesters, each lasting six months. To graduate, students must complete 63 credit hours of coursework, practical training, seminars, and research. This provides a strong and well-rounded academic foundation.

As a part of Pokhara University, you will have access to modern facilities and resources that will support your learning and research. Whether you are working in labs, conducting fieldwork, or doing library research, our university is here to help you every step of the way.

We believe that the Master of Health Informatics (MHI) program will prepare you to make a real difference in the field of health sciences and help tackle global health challenges. Take full advantage of every opportunity to grow, learn, and connect with others.

Welcome to the Faculty of Health Sciences at Pokhara University. We are excited to be part of your journey and look forward to seeing all that you will achieve.

Warm regards,
Prof. Dr. Bishnu Raj Tiwari
Dean, Faculty of Health Sciences
Pokhara University, Nepal

Pokhara University

Pokhara University was established only in 1997 under the Pokhara University Act, 1997. The Incumbent Honorable Prime Minister and the Honorable Minister for Education of the Federal Democratic Republic of Nepal are the Chancellor and the Pro-Chancellor of the University respectively.

Vision

- To be a leader in the promotion of education through quality higher education, health and community service

Mission

- Develop the institution into a Center of Excellence for Higher Education by enhancing teaching, learning and research activities; to accelerate the national development process by producing job market-driven, responsible, productive, welfare focused and committed human resources; to link the university system with community services
- Unfold the potential and creativity of learners, advocating humanism, reason, innovation, and search for truth.

Goals

The goals of Pokhara University are as follows:

- To build the university system into an advanced center of learning, and research including frontier approach to study like open learning
- To produce high level human resources equipped with knowledge, skill, personality, leadership, and human values, who can meet present day work challenges, act as change agents, and give direction for the future
- To serve as an institution to make higher education accessible to the underprivileged section of the society
- To make a positive contribution to academic scholarship, research and publication that will underpin and strengthen the teaching curriculum and generate knowledge
- To build a dynamic institution capable of withstanding changes
- To pursue excellence and quality in all aspects of the university's activities and services
- To link the knowledge, research, and publication with the productivity to serve the nation for the creation of knowledge economy, especially the weaker section of the society
- To increase the competitiveness of the University in regional and international level

Objectives

- To produce high quality skilled human resource in the area of science, technology, management, social sciences, law, humanities, education, and other professional areas for national development
- To encourage participation of the private sector in the development of higher education
- To create healthy, respectful and result oriented and disciplined academic environment by improving quality in higher education
- To promote the quality and standard of higher education through the healthy competition in higher education
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- To contribute to the community development by operating extension programs

Faculty of Health Sciences

Introduction

The Faculty of Health Sciences (FHS) was established in 2016. Although the program of health sciences had already been started since 2001 under Faculty of Science and Technology. The faculty aims to produce skilled and qualified human resources in the field of health sciences. The curriculum of health science programs at Pokhara University focusses on the development of highly skilled professionals with excellent research capabilities.

Vision

Our vision is twofold:

- To cultivate skilled and qualified human resources in the field of health sciences.
- To spearhead cutting-edge research endeavors in the realm of health sciences, while concurrently providing sophisticated medical facilities.

Mission

The mission of our undergraduate and graduate programs in the Faculty of Health Sciences is multifaceted:

- To facilitate the development of competent professionals and lifelong learners who champion community health/public health disciplines, including health education and related areas.
- To deliver integrated medical services to the community while fostering research-oriented scientists equipped with high-tech skills and profound ethical values.
- To offer a range of effective and relevant programs tailored to the demand for adequately qualified professionals in various disciplines of Health Sciences.
- To pioneer new courses in health sciences, including health tourism, through the provision of quality higher education, health, and community service.
- To nurture partnerships with healthcare professionals, academic personnel, and the community at large.

Goals and Objectives

Our goals and objectives are:

- To unlock the potential and creativity of learners, fostering humanism, tolerance, reason, innovation, and the pursuit of truth within competitive educational environments through extension programs.
- To cultivate skilled human resources in areas spanning law, science, technology, management, liberal arts, and educational and vocational studies.
- To nurture creative and research-oriented scientists in both basic and applied sciences through private participation in higher education.
- To produce outstanding engineers, architects, pharmacists, biochemists, and technical experts imbued with commendable ethical values and competencies to confront the challenges of the 21st century.

Master of Health informatics (MHI)

Health informatics is a multidisciplinary field that involves acquisition, management, and use of health-related information and data to improve healthcare delivery, patient outcomes, and overall healthcare system efficiency. It combines elements of healthcare, information technology, data science, and management to address the complex challenges within the healthcare industry.

A Master of Health Informatics (MHI) is a postgraduate degree that prepares students for careers in the field of health informatics. Health informatics is the study of how information and information technology can be used to improve the delivery of healthcare.

It helps to develop and maintain health information systems. Health informatics professionals focus on collecting, storing, and managing public health and healthcare data. This includes health information system, digital health, patient demographics, and clinical information. Furthermore, Data Analysis, Interoperability, Telemedicine and Remote Monitoring, Health Policy and Regulation, Quality Improvement, Patient Engagement, Research and Evidence-Based Practice and Education and Training.

1. Program Objectives:

The Master of Health Informatics (MHI) program in Health Sciences is distinctive in Nepal, offering an unique opportunity to pursue interdisciplinary and professional health science core courses along with the discipline specific specialized courses and engage in high quality research in relevant to health issues.

The key objectives of the Master of Health Informatics (MHI) in Health Science program is to equip students with the knowledge, skills, and competencies required to effectively design, manage, and utilize health information systems and technologies to improve healthcare delivery, enhance health outcomes, and support evidence-based decision-making across the health sector in:

- i. The program aims to provide students with a solid foundation in the principles and theories of health informatics.
- ii. It equips students with technical skills needed to work with healthcare data and information technology tools.
- iii. Students are encouraged to adopt an interdisciplinary perspective, facilitating effective communication between healthcare and IT professionals.
- iv. The program focuses on using health informatics to enhance healthcare efficiency, reduce errors, and improve patient outcomes.
- v. Students learn to responsibly manage healthcare data, emphasizing data accuracy, privacy, and security.
- vi. Analytical and data science skills are honed to enable students to make data-driven decisions and glean insights from healthcare data.
- vii. Graduates are prepared to design, develop, and maintain health information systems tailored to healthcare organizations' needs.
- viii. Interoperability and compliance with healthcare regulations are emphasized, ensuring seamless data exchange and ethical use of technology.
- ix. The program encourages students to engage in research and innovation to address current healthcare challenges.
- x. The significance of patient engagement and empowerment is highlighted, with an emphasis on designing patient-centric systems.
- xi. Leadership and management skills are developed to enable students to assume leadership roles within healthcare or IT departments.

- xii. Ethical and legal considerations are integrated into the curriculum, covering issues like patient confidentiality and data ethics.
- xiii. Lifelong learning and professional development are fostered, given the dynamic nature of health informatics and healthcare technology.

2. Career Opportunities

Career opportunities for Master of Health Informatics graduates are growing as healthcare systems increasingly adopt digital solutions and data-driven approaches. A Master of Health Informatics (MHI) opens diverse career opportunities in healthcare and technology. Graduates can work as Health Informatics Specialists, managing health information systems; Data Analysts, analyzing healthcare data to improve decision-making; or Health IT Project Managers, leading system implementations. Other roles include Public Health Informatics Officers, supporting disease tracking and public health initiatives; Telehealth Coordinators, managing virtual healthcare platforms; and Clinical Informatics Consultants, optimizing workflow with Electronic Health Records (EHRs). Opportunities also exist as Healthcare Consultants, advising on technology integration, or as researchers, trainers, and health information managers. Potential employers include hospitals, NGOs, telehealth/mHealth providers, software companies, and international organizations like WHO and UNICEF. Key sectors include EHR implementation, digital health startups, telemedicine, and health data policy development. In general, a Master of Health Informatics graduate can choose the following areas to build their career:

- Health Organizations (Public/NGO/Private)
- Bilateral & Multilateral Organization (WHO, UNICEF etc.)
- Health related Consultancy Agencies
- Hospital and Health Care Organizations
- Telehealth/mHealth Sector
- Self-entrepreneurship etc.

3. Allocated Seat

The total seat allocated is 15. Scholarship will be provided to three students as per the rule of Pokhara University.

4. Curricular Structure

This curriculum is designed to equip students with knowledge, competencies and attitudes needed for success in public health service positions. This coursework gives students a broad and holistic view of the complexity of issues in today's public health service environment. It includes the following three distinct components:

- **Core Courses:** The core courses provide students with advanced analytical concepts and skills on core areas of health informatics, public health field, necessary for making program decisions in planning, implementing and evaluating health information. and related areas.
- **Project:** Each students required to develop project in health informatics based on local context of health informatics in Nepal.

- **Internship:** An internship or practicum in a health institutions or HMIS section, health IT department or health system may be a requirement part of the program, providing students with practical experience.
- **Thesis:** Students are required to submit a thesis in their specialization area that involves fieldwork for primary data. Students are required to prepare a thesis on a prescribed format. This course covers 12 credit hours.

5. Program Operation and Credit System

The official language of instruction is English for teaching learning, thesis writing and examination. Admission will open once in a year. Pokhara University follows semester-based credit system. Each course carries a weightage of designated number of credits. The teaching learning activities include class lectures, tutorial, and practical work. Each course is assigned with one or more faculty members to deliver, facilitate, and evaluate the course. The Master of Health Informatics course includes 16 courses taught and research leading to a thesis (12 credits). All the courses consist of 63 credit hours.

6. Entry Requirements and Admission Procedures

The applicant is required to submit copies of the following documents with the application form made available by the college/school/university concerned:

- Completed and signed application form mentioning his/her intended specialization area.
- Transcript/Mark-sheet, Transfer/Migration Certificate, Equivalent Certificate (in case of foreign degree), Character Certificates, and Citizenship/National Identity Number/Passport

Certificates of all degrees should be photocopied and submitted with proper self-attestation. Enrolment is conditional upon completion of all admission formalities, including payment of fee determined by the school/college. Incomplete application shall not be processed

7. Admission procedure

The admission notice will be announced on the official website, Local or National newspaper/s. Application form and information brochure will be provided after the payment of the prescribed fee. The eligible candidates are to be informed to attend the entrance examination.

8. Course Registration

The intake will be taken once a year, either in the fall/spring session as per the university rules and regulations. A selected candidate is required to register assigned courses at the beginning of each semester mandatorily.

9. Attendance Requirements

The students must attend every lecture, tutorial and practical class. However, to accommodate late registration, sickness and other such contingencies, the attendance requirements will be a minimum of 80% of the classes held. Students will get NOT QUALIFIED (NQ) in terms of class attendance status if s/he cannot maintain 80% attendance in any course.

10. Duration of Study

The normal duration and the maximum duration for the completion of the requirements for the Master of Health Informatics program are:

Normal duration: 24 months (4 semesters)

Maximum duration: 4+1 years from the date of registration.

(All the courses have to be completed within 4 years, and an additional 1 year can be given to the Thesis work on special request upon the approval of concerned authority)

11. Evaluation of Coursework

A student's academic performance in a course is evaluated in two phases as:

- Internally by the concerned faculty member/s and
- Externally by the Office of the Controller of Examinations through semester-end examinations.

Sixty percent weight is given to internal evaluation and forty percent weight is given to external evaluation (Semester-end examination). The pass mark for both the internal evaluation and external evaluation (Semester-end examination) is 60%. A student must qualify in both evaluations separately to get a pass grade in a particular course. The final grade awarded to a student in a course is based on his/her consolidated performance in both internal and external evaluations.

The details of the criteria for internal evaluation will be as described in the internal evaluation guideline. The internal evaluation may comprise various components like project work, quizzes, presentations, written examinations, reflection notes preparation, and others. A student will get NOT QUALIFIED (NQ) status in the internal evaluation if his/her performance falls below the minimum requirements. Such students may not appear in the semester-end examination of that course.

12. Grading System

The grading system will be followed as per the rules and regulations of the Office of the Controller of Examinations, Pokhara University.

13. Requirements for the Master of Health Informatics Degree

To earn a graduate degree from the Master of Health Informatics program,

- a student should have a 'C' or better grade in each of the courses as specified in the curricular structure section.
- completed all the courses, practical work and thesis as specified in the curricular structure section within the maximum time period specified in the normal and maximum duration of the study section;
- have a final CGPA of 3 or better on the university's 4.0 grade scale, and
- No outstanding financial obligations to the university.

14. Detailed Curricular Structure

Semester I

Course Code	Course Description	Credit
FHI 511	Foundation of Health Information Systems	3
DGH 512	Digital Health	3
CNS 513	Computer Science, Network and Servers for Health Informatics	3
EPH 514	Ethical and Privacy Issues in Health Informatics Systems	3
PSD 511	Foundation of Health Information Systems (Practical)	1
PSD 512	Digital Health (Practical)	1
PSD 513	Computer Science, Network and Servers for Health Informatics (Practical)	1
PSD 514	Ethical and Privacy Issues in Health Informatics Systems (Practical)	1
Total		16

Semester II

Course Code	Course Description	Credit
RES 521	Health Research Methodology	3
EHS 522	Epidemiology and Health System for Health Informatics	3
HDS 523	Health Data Standardization	3
HDB 524	Health Database System	3
PSD 521	Health Research Methodology (Practical)	1
PSD 522	Epidemiology and Health System for Health Informatics (Practical)	1
PSD 523	Health Data Standardization (Practical)	1
PSD 524	Health Database System (Practical)	1
Total		16

Semester III

Course Code	Course Description	Credit
GHI 631	Geographic Information System (GIS) in Health Informatics	3
HDA 632	Health Data Analytics	3
WDH 643	Web Development in Health Informatics	3
SEM 634	Seminar on Health Informatics	1
PWH 635	Project Work in Health Informatics	2
RPD 636	Research Proposal Development (Practical)	1
PSD 631	Geographic Information System (GIS) in Health Informatics (Practical)	1
PSD 632	Health Data Analytics (Practical)	1
PSD 633	Web Development in Health Informatics (Practical)	1
Total		16

Semester IV

Course Code	Course Description	Credit
IHI 641	Internship in Health Informatics (3 months)	3
THI 642	Thesis on Health Informatics	12
Total		15
Grand Total (16+16+16+15)		63

15. Medium of Study

The language of teaching, learning, discussion, communication and evaluation (including all examination, assignments and reports) and thesis will be in English.

16. Scholarship

The scholarship will be provided as per the decision of Pokhara University.

17. Fee Structure :

Fee and payments comprise of admission, semester, research and thesis.

S.N.	Particulars	First Year		Second Year		Total
		Sem-I	Sem-II	Sem-III	Sem-IV	
1	Entrance Exam Fees	Rs. 2,500.00				Rs. 2,500.00
2	Admission fee	Rs. 14,000.00				Rs. 14,000.00
3	Registration fee	Rs. 10,000.00				Rs. 10,000.00
4	Tuition Fee	Rs. 60,000.00	Rs. 70,000.00	Rs. 70,000.00	Rs. 33,000.00	Rs. 233,000.00
5	Examination fee	Rs. 3,000.00	Rs. 3,000.00	Rs. 3,000.00	Rs. 3,000.00	Rs. 18,000.00
6	Service / Internet/ computer Fee	Rs 5,000.00	Rs. 5,000.00	Rs. 5,000.00	Rs. 5,000.00	Rs. 20,000.00
7	Student Welfare Fee	Rs. 1,000.00	Rs. 1,000.00	Rs. 1,000.00	Rs. 1,000.00	Rs. 4,000.00
8	Laboratory Fee					Rs. 0.00
9	Library Fee	Rs. 500.00	Rs. 500.00	Rs. 500.00	Rs. 500.00	Rs. 2,000.00
10	Field Internship				Rs. 40,000.00	Rs. 40,000.00
11	PU Development Fee	Rs. 2,500.00	Rs. 2,500.00	Rs. 2,500.00	Rs. 2,500.00	Rs. 10,000.00
12	Thesis/ Research				Rs. 30,000.00	Rs. 30,000.00
13	Deposits	Rs. 10,000.00				Rs. 10,000.00
	Total	Rs. 106,000.00	Rs. 82,000.00	Rs. 82,000.00	Rs. 115,000.00	Rs. 385,000.00

Note:

I. Students from SAARC countries shall pay 1.75 times and other international Students Shall pay two times of Total Fees.

II. Students sponsored from international project shall pay 2 times of the total fee.

III. Semester fee shall be paid at the beginning of the semester.



Pokhara University

Faculty of Health Sciences

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