

CURRICULUM

FOR

BACHELOR OF PUBLIC HEALTH (BPH)

FOUR YEAR, EIGHTSEMESTER



**PURBANCHAL UNIVERSITY
(FACULTY OF MEDICAL AND ALLIED SCIENCE)
BIRATNAGAR, NEPAL**

2012

Yetha Pa

Biraj Poudel

B. P. M. I.

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Acknowledgment

It gives me great pleasure to have this comprehensive course of study of Bachelor of Public Health for Purbanchal University. With the changing context of the country, the University has focused on inclusive development of course design and curriculum of bachelor of public Health. The University has shifted Bachelor in Public Health course from 3 years to 4 years system (semester system) from this academic year 2069/70. So, I am hopeful that this curriculum would be able to produce competent, skillful and energetic public health graduates to serve the nation in future.

This full package of curriculum is the continuous effort of Asso. Prof. Salau Din Myia, Coordinator; Asst. Prof. Binod Regmi, Member and Asst. Prof. Janak Kumar Thapa, Member of Curriculum Development core committee so, I would like acknowledge them for their hard work.

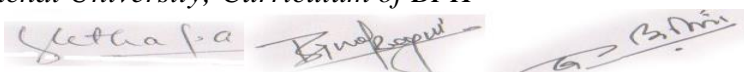
I like to extend my sincere thanks to Prof. Dr Muni Raj Chettri, Chairman and all the member of Public health subject committee for their constant support and encouragement in developing this curriculum.

Similarly, my vote of thanks goes to respective professors, seniors, faculty teachers, subject teachers, curriculum consultants and Allied Science Institutional Association (ASIA) for their help, necessary advice in development process of this curriculum. I would also like to appreciate all the Health Science Colleges affiliated to Purbanchal University for their financial and motivational support in making this curriculum.

My special thanks go to Little Buddha College of Health Sciences for kind support in curriculum development procedure by providing us venue, material and refreshment. Last not the least, we would also like to acknowledge Nepal Public Health Association (NePHA) for their support in completing this endeavor.

Prof. Dr. Ram Kumar Singh
Dean, Faculty of Medical and Allied Science
Purbanchal University
2012

Purbanchal University; Curriculum of BPH



BACHELOR OF PUBLIC HEALTH (BPH) PROGRAM

Section A: General information

1. Background and Goal

Revolution in modern information technology has made the world a smaller place with all countries within easy reach. The western developed countries have massively capitalized on the new advances of science and technology and have improved the socio-economic and the quality of life of their people to great extent that is inconceivable in the developing countries. Access to quality education, health care service quality food, shelter and social security with the provision of all the necessary services have, become the essential needs of the common people in the developed countries whereas these very essential needs have become the exclusive privileges of the wealthy and affluent class in most of the developing countries. Access to quality health education and service has more than any other factor, significantly improved the quality of life in the western world. The improvement in the quality of life has stemmed from a substantial public and private sectors investment on health education and services over a long period of time. It is universally recognized that until and unless a country can produce high quality and adequate human health manpower at various levels needed by the country, it is inconceivable to bring intended qualitative improvement in health sector. The production of high quality human resources in health sector at various levels must be based on country's needs and the priority.

Nepal faces a major challenge in providing basic health care services let alone provides high quality health services to its population. One of the most limiting factors in meeting this challenge is the severe lack of health workers at various levels ranging from junior, medium to higher levels. A large number of junior and medium level public health workers are needed to deliver the basic health service to the people at various levels (community, district, regional and national). The present rate of production of public health workers at various levels relative to the need of the country is so small that it may take more than many decades to meet the present demand of the country.

Realizing this dire need of health professionals in public health sector, GoN has encouraged private sector to invest in public health education to produce quality manpower to meet national needs. It is in this context that Purbanchal University has initiated bachelor programs in health sciences with the goal of contributing to the improvement of public health service of the country through the production of quality human resources in health sciences needed by the country. Purbanchal University is a multi faculty innovative University involved in the production of high quality human resources in various disciplines of sciences. Therefore, developing curriculum with revision in four years semester system academic course in bachelor of public health (BPH) is certainly an innovative step in producing qualified graduates in health sector for coming days.

Government of Nepal; Ministry of Health and Population has committed itself to raise the health status of the people of Nepal pursuing the strategy of primary health care [PHC] in order to realize the objectives of health for all. All of the components of primary health care call for intersect oral co-ordination as well as active community participation and involvement. It is in this context that effective dissemination of relevant. Technically sound, and feasible public health measures are necessary in order to increase individual and community capabilities for involvement and self-reliance in health sector and to promote healthy behavior with respect to disease prevention and control, environmental health, Family health, nutrition. Healthy life styles and so on. Thus it has become essential through understanding of all relevant branches of

public health with special emphasis on the most appropriate public health measures. These are necessary for promoting individual and community involvement.

The country's health situation and the indicators of health reveal that the production of public health professionals and graduates at various levels must be carefully planned and accelerated in view of the dire needs of such manpower to provide essential preventive, curative, promotive and rehabilitative quality care services and ensure everybody's access to health and realize Alma-Ata Declaration of which Nepal is a signatory. Therefore Purbanchal University has envisaged contributing towards this noble goal of providing quality health services and improving people's health through the production of public health professional graduates required by the country.

2. Purpose of the Program

The bachelor of public health program (BPH) aims to prepare professional public health specialists with the highest technical and managerial competence in district level health programs including problem identification, planning, implementing, training, health education and research. Such specialists can serve in various types of positions at national, regional, zonal, district or local levels. They will be needed in various kinds of Governmental or non-Governmental health agencies, hospital, schools and institutions. Other possible area of absorption may involve special responsibilities, e.g. working primarily with school teachers administering health education services, and preparing health workers in public health fields. In general, the graduates of BPH program should be able to carry out the responsibilities designed for the district public health officer.

3. Career Opportunity

There is growing concern for improvement of health status from all stakeholders within Nepal or in the foreign countries. Provision of equitable access to health care for attainment of an acceptable level of health and better quality of life of the people by creating more equitable distribution of resources is the dominant concern of Nepal today. In many parts of the world scientists are investing themselves in introducing public health interventions that can deal with the lifestyle. However, Nepal is facing three fold burdens of diseases (communicable, lifestyle related and poverty). In order to cope with this complex situation, development of public health graduates has become inescapable. Very few number of public health workers are working within Nepal or in the other countries. In general, a BPH graduates can choose following area to build the career:

- University (Education and Research)
- Health Organization
- Nepal Government- Public Health Sector
- Private Health Sector
- Health Center
- Research sector
- Different NGOs & INGOs.
- Local development sector

4. Objectives of the program

The objective of bachelor of public health [BPH] program is to produce competent graduates with advanced knowledge and practical skill necessary to deliver high quality health services needed for the country. Specifically, the program entails the following objectives;

- Provide advanced knowledge and practical skill to health sciences graduates and with biology

- Develop required skill in designing, analyzing and evaluating applied public health science research and management.
- Equip public health specialists with communication and group organization skill for promoting community participation in health and development activities ultimately leading to the individual and community self-reliance in health service and improvement in health status of people.
- Enable public health professionals to deal with existing realities in district public health management issues, concern and problems.
- Foster positives attitudes in health professionals and encourage them to provide more accessible and equitable primary health care services for disadvantage groups and communities.
- Develop the leadership capabilities of public health professionals in the management of primary health care and district level public health programs.
- Enhance vocational competence of public health professionals through advanced education in health strategies. Health promotion and health programming.

5. Competencies to be achieved by the Public Health Graduates

It is envisaged that the professional public health specialists graduated from Purbanchal University should acquire knowledge, skill and attitudes .which will enable them to carry out the following activities.

- ✓ View primary Health care in its totality with respect to biological. environmental, socio-economic and cultural factors .and
- ✓ Be able to identify and implement promotional, preventive and curative components of public health programs.
- ✓ Determine existing community health problems by use of epidemiological investigation and prioritize the problems.
- ✓ Apply problem-solving and community participation approach in planning, managing and evaluating programs designed to deal with priority public health problems in appropriate ways to achieve optimum impact from public health programs
- ✓ Demonstrate attitudes, which reflect acceptance of, and respect for the important roles of colleagues, sub-ordinate staff and community members such attitudes is expected to enable them to ;
 - Provide direction for smooth functioning of a public health team
 - Train, supervise and support existing public health staff.
 - Arrange for intersect oral co-ordination and cooperation
 - Raise awareness among community citizens concerning the existing public health problems.
 - Organize health actions which will address these problems especially bearing in mind the needs of disadvantaged groups and communities.

In view of the above considerations, it is quite evident that a tremendous responsibility has to be borne by a professional public health specialist in order to provide; leadership to the community, to middle level and grass roots health workers in order to bring about health for all.

6. Duration of the program

The course has been designed for four academic years (Eight Semester) concentrating in general public health courses. There will be concurrent and residential fieldwork during the academic years.



7. Course Structure:

- The program follows the credit system. Each course is assigned a certain number of credits depending generally upon its lecture, tutorial and practical work hours in a week. In theory subjects, one lecture per week is assigned one credit as a general rule.
- One credit hours of theory is equivalent to 16 hours lecture and one credit hour of practical is equivalent to 32 hours practical.

Total Credit hours 168 Credit (One Hundred Sixty Eight Credits)

8. Course Coding

Each course is identified by initial letter of the course title followed by three digit number and credit hours after decimal i.e. BPH 101.1-AP for Anatomy and Physiology, PSD 101.1-AP for Practical Skill Development and TPP 102.1-IPH for Introduction to Public health and similarly.

9. Academic Schedule

The academic session consists of two semesters per year. Generally the Fall Semester (September-February) starts in September and the Spring Semester (March-August) begins in February, however it may differ slightly in any particular year.

10. Normal and Maximum Duration of Stay in the University

The normal duration for completing the BPH course is four years. In exceptional case, however, the student is *allowed normal duration plus two years to complete* the course. If a *student is unable to complete the course within two years from final examination of last semester, the University registration is annulled.*

11. Teaching and Learning Methods

A number of effective and participatory teaching and learning methods will be employed to facilitate innovative learning [acquisition of knowledge, skills and attitude]. The choice of the methods largely depends on the nature of the subject matter and the situation nevertheless the following methods will be emphasized and adopted.

- Lectures using overhead projector, multimedia and white boards,
- Learning process through Groups discussion, interaction, brain storming, observation
- Reading assignment,
- Field study, analysis and group presentation
- Directed study and seminar.
- Teaching approach- Participatory base andragogy with appreciative approach

12. Teaching and Learning Setting

A participatory teaching and learning environment is created. The concerned teacher will facilitate and motivate the students for participatory learning through group discussion and interaction. The use of modern information technology will be emphasized and students will be directed and encouraged to develop their analytical capacity for the acquisition. Processing, interpretation and presentation of the knowledge acquired.

13. Medium of Teaching and Examination

The medium of instruction and examination for BPH program will be English.

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B. Ph.D.

Section B. Admission and Examination

1. Admission criteria

To fulfill the entry-level requirement for admission to this course, the candidates should have proficiency certificate level in general medicine, or any other recognized certificate level courses in health sciences, or intermediate science certificate or ten plus two with biology and a pass the entrance examination as taken by University.

2. Admission Procedure

- A notice inviting application for admission will be publicly announced.
- The application forms are provided, on request, after the payment of the prescribed University fee.
- The eligible candidates are publically informed to take the entrance examination
- The college may also take interview with pass list candidates for final selection for admission
- College will provide the time duration of admission

(Note: All students must submit their all certificates and credentials from SLC to Intermediate level including their citizenship)

3. Evaluation

There will be final examination at the end of each consecutive semester. This will carry 80% marks in final examination and 20 % marks will carry by internal assessment. A student has to get minimum 50% mark in theory and 60% marks in practical separately to pass the subject. Internal assessment will not be taken for practical subject (PSD, FHE and TPP).

3.1 Course Evaluation Scheme for respective college, campus or institute.

3.1.1 For internal mark-20% (Out of 20 marks of internal assessment in individual subject)

SN	Description	Weightage
1	Class attendance	25%
2	Class Presentation and home Assignment	25%
3	Two times Internal examination in each semester (Each carry 5%)	50%
	Total	100%

3.2. For community health diagnosis

Practical 100 %

SN	Description	Weightage
1	Pre field work (instrument development, pretesting)	5 %
2	Team work in field	10 %
3	Field Attendance (daily diary maintain or means of verification)	10 %
4	Evaluation by Campus/Institute Supervisor in field	20 %
5	Presentation by Students at Community	10 %
6	Micro health Project Planning and implementation	10 %
7	Presentation by Students at respective college	10 %
8	Community Diagnosis Field Report (Written)	15%
9	Oral defense	10%
	Total	100 %

3.3 For comprehensive District Health Management field practice evaluation

Practical 100 %

SN	Description	Weightage
1	Team work in field	5%
2	Field Attendance (daily diary maintain and means of verification)	10%
3	Evaluation by Local Field Supervisor	10%
4	Evaluation by Campus/Institute Supervisor in field	10%
5	Evaluation by D/PHO	15%
6	Mini action project planning and implementation	5%
7	Critical appraisal (individual report) on public health issues of district	5%
8	Seminar organize at D/PHO	10%
9	Presentation by students at respective college	5%
10	Comprehensive field Report (Written) final (Three copy of spiral binding with one softcopy in CD/DVD)	15%
11	Oral individual examination final	10%
	Total	100%

3.4 For Public health research report evaluation

Practical 100 %

SN	Description	Weightage
1	Proposal presentation and submission	10%
2	Evaluation by research supervisor	45%
3	Report presentation with draft report submission	10%
4	Oral defense and examination (External)	20%
5	Final report submission (Three copy of hard cover black binding with one softcopy in CD/DVD)	15%
	Total	100%

3.5 For Practical skill development evaluation and term paper preparation

Practical 100 %

SN	Description	Weightage
1	Individual participation (attendance)	35%
2	Log/practical book maintaining, report submission	35%
3	Final oral and individual examination	30%
	Total	100%

3.6 For Family health exercise evaluation

Practical 100 %

SN	Description	Weightage
1	Individual work in field	15%
2	Development of indicator	10%
3	Tool development & finalization	15%
4	Presentation by students at respective college	10%
5	Report submission	15%
6	Oral and individual examination	35%
	Total	100%



4. Attendance Requirement

The students must attend every lecture, tutorial, seminar and practical classes. However, to accommodate for sickness and other contingencies, the attendance requirement shall be a minimum of 80% of the classes in any particular subject, otherwise s/he shall not be allowed to take the final examination in that subject. If a student is continuously absent in the class for more than four weeks without notifying the authorities, his/her name will be removed from the school roll.

5. Course Registration

Student must be registered in University in first semester. University will provide the individual registration number at the end of first semester. The academic record of a student shall be maintained in terms of the courses for which s/he register in any semester, and the grades s/he obtain in those courses. Registration for course is done at the beginning of first semester. Since registration is a very important procedural part of the credit system, it is absolutely essential that all students present themselves at the school. In case of illness or any exceptional circumstance during the registration period, the student must inform the University authority.

6. Repeating a Course

Since passing of all courses individually is a degree requirement, the student must retake the falling/dropping subject and must successfully complete the course. Student can retake a course when one receives GPA less than 2.0. The grade earned on the retake will be substituted for the grade earned previously

7. Transfer of Credit Hours

A maximum up to 25% of the total credit hours of course complete in an equivalent program of a recognized institution may be transferred / waived for credit on the recommendation of the head of the faculty. For transfer of credit, a student must have received a grade of C or better in respective course. Courses taken earlier than three years from the time of transfer may not be accepted for transfer of credit. The concerned Subject Committee of the University will make an evaluation of the applicant for transfer of credit. The awarding of transferred credit will be based on the applicant's score in the University, which s/he has attended previously.

However, a student transferring from one college to another college of Purbanchal University, prior to get permission from concerned college, may receive a credit transfer of all the compatible courses completed with at least grade C.

8. Final Examination

University conducts final examination at the end of each semester. The procedure of final examination conduction will be as per the examination rules of the University.

9. Unsatisfactory Results

Students may apply for re-totaling of their grades as per University rule, upon payment of prescribed fee.

10. Grading System

The grades (marks) awarded to student in a course is based on his/her consolidated performance in internal and final examinations. The letter grade in any particular subject is an indication of a student's relative performance in that course. The pattern of grading will be as follows:

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Table: 1 Grading System for BPH (Purbanchal University)

Letter as Grade	Secure Marks in %	Obtain Number (Percentage)	GPA Score	Division equivalence	Grade Point Description
A	≥80		4	Distinction	Excellent
B	60 to 79.99		3.77	First division	Better
C	50 to 59.99		3	Second division	Good
D	≥ 40 to 49.99		2	Third division	Satisfactory
F	< 40			Fail	Fail
I					Fail

The student's final grade will be calculated on cumulative grade point average (CGPA).

11. Award of degree

On completion of all requirements with CGPA of 2.0 or better, the student will be awarded a degree of Bachelor of Public Health (BPH).

12. Degree with distinction

To obtain a degree with distinction, a student must have obtained CGPA with 4.

Section C: Annex I

Teaching setting environment

- Infrastructure should be according to guideline of Nepal health professional council
 - **Human Resources as per council**
 - **Lab setting as per council**
 - Basic sciences lab
 - ✓ Anatomy/ physiology /first aid
 - ✓ Microbiology/ biochemistry
 - Computer lab
 - Public health Lab
 - ✓ Nutrition and Health education lab
 - ✓ Environment and entomology lab

Annex II

Evaluation technique and tools

Questionnaire module (final theory examination)

Three hours written examination for 80 marks and 20 marks from internal assessments

PU final examination (FM=80)

Long question, any four ($4 \times 10 = 40$)

- 1
- 2
- 3
- 4
- 5

Medium question, any five ($5 \times 5 = 25$)

- 1
- 2
- 3
- 4
- 5
- 6

Short question, any five ($5 \times 3 = 15$)

- 1
- 2
- 3
- 4
- 5
- 6

For Practical Skill Development

For lab based practical

1. Choices of practical questions are provided based on lottery.
2. Theory of the practical question should be written and get checked with signature in given time.
3. Demonstrate the practical exam as per question
4. Viva and vocal

For field/paper/seminar based practical

According to evaluation sheet, viva, record keeping (maintain of log book/practical file), presentation, defence, demonstration, explanatory, questionnaire answer sheet etc as per necessity

1. Choices of practical questions are provided based on lottery.
2. Answer the questions accordingly in the answer sheet or verbally and get checked with signature in given time.
3. Demonstrate the practical exam as per question
4. Viva and vocal

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Annex III

Guideline of formatting to every report

1. Font size
 - a. Cover Title: 14-18
 - b. Chapter title: 16
 - c. Title: 14
 - d. Sub-title- 12 Bold
 - e. Text: 12
 - f. Font: Times New Roman
2. Lines spacing-1.5
3. Bibliography/References- Harvard/Vancouver
4. Page layout- Margins: 1.25" on left- and 1"- on right, top and bottom
5. The page numbers of preliminary pages should be in small roman numbers.
6. Start numeric page numbers from introduction

Annex IV

Guideline of development of term paper

A. Preliminary Pages

- Cover page
- Recommendation letter
- Approval letter
- Acknowledgement
- Table of content
- List of tables
- List of figures
- List of abbreviation/acronyms
- Abstract: abstract should be attached before introduction.

B. Main body

1. Introduction
 2. Objective of the study
 3. Methodology
 4. Results and Discussion
 5. Conclusion
 6. Recommendations
- Bibliography/References
Appendix

Evaluation of Term Paper Presentation

Schedule		Evaluation			
Activities	Time Allocated	Criteria	Marks Allocation	Marks Obtained	Teacher's Signature
Topic Selection					
Data collection, Facilitation and Report Writing, Draft Report Submission					
Presentation					
Final Report Submission					

Annex V

Guideline of Community Health Diagnosis (CHD)

Preliminary page

- Cover page
- Name of group members
- Approval Sheet
- Acknowledgements
- Preface
- Table of Contents
- List of tables
- List of figures
- Abbreviations
- Executive summary

Chapter I: Introduction

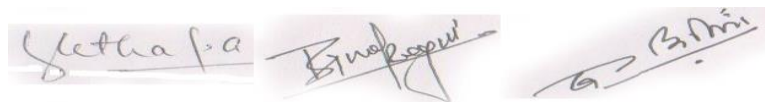
- 1.1 Background of VDC (in detail)
- 1.2 Rationale of the study
- 1.3 Objectives of the study

Chapter II: Methodology

- 2.1 Study design
- 2.2 Study area
- 2.3 Sample size
- 2.4 Sample technique
- 2.5 Site selection and HH selection
- 2.6 Sources of data
- 2.7 Tools and techniques of data collection and data analysis
- 2.8 Field implementation
- 2.9 Data analysis & presentation technique
- 2.10 Validity and reliability
- 2.11 Ethical consideration
- 2.12 Limitation of the study

Chapter III: Finding

- 3.1 Social and Demographic Characteristics
- 3.2 Environmental Health and Hygiene
- 3.3 Maternal and Child Health
- 3.4 Nutrition
- 3.5 Diseases pattern etc



Chapter IV: Need prioritization and MHP

- 4.1 Introduction
- 4.2 Problem identification
- 4.3 Problem analysis
- 4.4 Problem prioritization on resource base (Student innovative local resource mobilization)
- 4.5 Setting objectives
- 4.6 Methodology
- 4.7 Target group selection
- 4.8 Developing plan of action
- 4.9 Implementation
- 4.10 Evaluation with sustainability of MHP

Chapter V: Discussion

Chapter VI: Conclusion and recommendation based on evidence for sustainable resource management

Chapter VII: Other activities

References

Appendices

- Questionnaire
- Social Map of VDC
- Work Plan
- Reference/Evidence letter
- Photo Gallery

Annex VI

Guideline of Comprehensive Public Health Practice

Title of District Health Profile

- Cover page
- Name of group members
- Approval Sheet
- Acknowledgements
- Preface
- Table of Contents
- List of tables
- List of figures
- Abbreviations
- Executive summary

Chapter I: Introduction

- 1.1 General background
- 1.2 Rationale of the practice
- 1.3 Objective of the practice: General and specific

Chapter II: Methodology

- 2.1 Selection of the practice area
- 2.2 Practice duration
- 2.3 Information collection tools and techniques
- 2.4 Sources of information
- 2.5 Processing and Presenting of data
- 2.6 Validity and reliability
- 2.7 Ethical considerations
- 2.8 Limitations of the practice (comparison of work plan between proposed and actual)

Chapter III: District profile

- 3.1 Introduction of the district
- 3.2 Geographical situation
- 3.3 Political and administration division
- 3.4 Demography
- 3.5 Religious places
- 3.6 Ethnic groups
- 3.7 Population distribution by language
- 3.8 Population by religion

- 3.9 Development infrastructure like transportation, communication, electricity, drinking water supply and education
- 3.10 Government health facilities
- 3.11 NGOs and INGO related with health and brief their activities
- 3.12 Health indicators
- 3.13 Economic status
- 3.14 Non/governmental organization

Chapter IV: District Health Profile

POSDCORB model and pattern of District health/public health office, Innovation of district office

Chapter V: Analysis of district health programs

Immunization, Diarrhoea, ARI program, MCH, Nutrition, SMP, FP, TB, Leprosy, PHC/Outreach, FCHV program, curative services and top ten disease, HIV/AIDS, National Health Training, National Health Information

Non communicable diseases, RTA, social disease and disaster situation and preparedness

Chapter VI: Critiques of district level health service in relation with National Health Service and system

Chapter VII: Mini Action Project

- 7.1 Introduction
- 7.2 Problem identification
- 7.3 Problem analysis
- 7.4 Problem prioritization on the basis of resources (Student innovative local resource mobilization)
- 7.5 Setting objectives
- 7.6 Methodology
- 7.7 Target group selection
- 7.8 Developing plan of action
- 7.9 Implementation
- 7.10 Evaluation with sustainability of MHP

Chapter VIII: Other Activities

- 8.1 Field visits (PHCC, HP, SHP and their service and profile of service in relation to above)
- 8.2 At least 3-4 health facility visit
- 8.3 Program being conducted by health facilities
- 8.4 Activities by conducted by the group/situation
- 8.5 Hospital visits (organogram, services, manpower)

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Chapter IX: Conclusion and recommendation based on evidence for sustainable resource management

Reference

Appendix

- **Necessary document**
 - Questionnaire
 - Map of practice site
 - Work Plan (proposed and actual)
 - Other necessary

- **Evidence of field**
 - Letter from District
 - Proved by DHO daily attendance sheet of individual student
 - Evidence of conducting micro health project and approve from the local authorities like, PHCC/HP/SHP/VDC and photo
 - Proved letter from the office incharge of concerned field visits (PHCC/HP/SHP)
 - Photo Gallery

Annex VII

Guideline of Public health research report

Title of Research

Cover page
Approval Certificate
Declaration
Acknowledgement
Abstract
Table of content
List of table
List of figures
Acronyms

CHAPTER I: Introduction

- 1.1 Background
- 1.2 Statement of problem
- 1.3 Rationale of study
- 1.4 Objective
 - 1.4.1 General objective
 - 1.4.2 Specific objective
- 1.5 Research question
- 1.6 Hypothesis (If necessary)
- 1.7 Conceptual framework

CHAPTER II: Literature Review

- 2.1 Thematic review
- 2.2 Empirical review (Most recent to old)

CHAPTER III: Methodology

- 3.1 Study design
- 3.2 Study variables
- 3.3 Study area
- 3.4 Study population
- 3.5 Sample size
- 3.6 Sampling technique
- 3.7 Tools and technique of data collection

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- 3.8 Data management, analysis and interpretation procedure
- 3.9 Validity and reliability of study
- 3.10 Inclusion and exclusion criteria
- 3.11 Expected outcome (only in proposal)
- 3.12 Ethical consideration
- 3.13 Limitation of the study
- 3.14 Operational definition
- 3.15 Time frame of study

CHAPTER IV: Research Findings

CHAPTER IV: Discussion

CHAPTER VI: Conclusion and Recommendation

- 6.1 Conclusion
- 6.2 Recommendation (finding base)

References/Bibliography

- Annex 1 Tools of data collection
- Annex 2 Mapping of study area
- Annex 3 Approval letter
- Annex 4 Consent letter
- Annex 4 Other necessary documents

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A RESEARCH REPORT

ON

.....**TITLE**.....
.....
.....

SUBMITTED BY

NAME OF STUDENT

YEAR, BATCH

PU REGD. NO.....

**SUBMITTED IN PARTIAL FULLFILLMENT OF THE REQUIREMENTS IN THE
SUBJECT OF THE PUBLIC HEALTH RESEARCH REPORT (COURSE CODE PSD
408.4-PHRR) FOR DEGREE OF BACHELOR OF PUBLIC HEALTH**

SUBMITTED TO

DEPARTMENT OF PUBLIC HEALTH

.....COLLEGE NAME.....

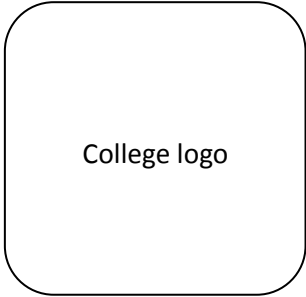
PURBANCHAL UNIVERSITY

KATHMANDU, NEPAL

YEAR

Setha / a *B. M. Singh* *B. M. Singh*

Department of Public Health
.....**Respective College**
Purbanchal University



CERTIFICATE

It is certified that this research entitled “.....**TITLE**.....
.....” is the bona fide work of Mr/Ms.
.....**Student Name**....., conducted under our guidance and supervision as
partial fulfilment of the requirement for the degree of Bachelor of Public Health from
College name of Purbanchal University.

RESEARCH SUPERVOISER

EXTERNAL

Name with title.....
Guide
Public Health Department
College name

Name with title.....
External
.....

Name with title.....
HOD
Public Health Department
College name and address

Name of campus chief.....
Campus Chief/Principal
College name and address

Yetha / a B. M. P. B. M. P.

DECLARATION

I hereby declare that this Research entitled “.....**RESEARCH TITLE**.....” has been prepared by me under the close guidance and supervision of(**Guide name with title**)..... as a guide in the partial fulfilment of the requirement for the degree of Bachelor of Public Health from, from (**respective college**)..... of Purbanchal University, Nepal.

.....**Student name**.....
PU REGISTRATION NO.....
BACHELOR OF PUBLIC HEALTH,
20..... BATCH
DEPARTMENT OF PUBLIC HEALTH
.....**COLLEGE NAME**.....

Yetha / a
Biratnagar
B.Ph

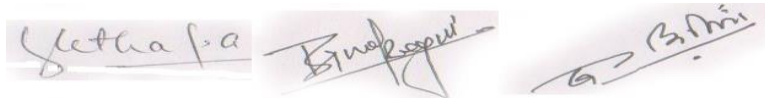
RECOMMENDATION

This is to recommend that the Research entitled “.....**RESEARCH TITLE**.....” has been carried out byfor the partial fulfillment of **Bachelor of Public Health**. This original work was conducted under my supervision. I would like to recommend keeping this research report for final evaluation.

.....
.....**Name with title and qualification**.....

Guide

Department of Public Health
.....college name.....
Purbanchal University
Biratnagar, Nepal
Year



Annex VIII

Understanding of guideline

Preliminary/Introductory Part

Cover page

The words in cover page must be in upper case/capital letters.

- The title of the study: It should be written into upper case/Capital Letter.
- Statement- "*A Term Paper/Report Submitted to Fulfil the Partial Requirements of course code... Subject...., Bachelor of Public Health*"
- Submitted By: Study Group/ Researcher, Batch
Department of Public Health,college, Purbanchal University.
- Year of Running semester
(All the above information should be written into title case)

Approval sheet/letter (optional)

It should be attached as provided format of the college/ university.

Acknowledgement

In this part you should acknowledge your respondents, academic advisors and other persons who have assisted and cooperated in the work/study.

Table of contents

Under this part, all the important components of the final report should be included in sequential order by indicating page numbers.

List of tables

Under this heading, include all the heading of the tables orderly with their respective page numbers.

List of figure

Under this heading include all the heading of the figures orderly with their respective page numbers.

List of abbreviations/acronyms

Write abbreviation/acronym words and their full form which are used in the final report.

Abstract:

An abstract must be written with introduction, objectives, methodology, results and discussion.

Main body/Contents

This part consists of more details as well as specific information of the study which are explained briefly as follows:

1. Introduction:

The introduction of the study means a brief description of topic; what is known before the study. So, details information of the study should be mentioned in the sequential order. In the introduction/background, the past and existing situation as well as future trends of the research issues should be entitled with authentic references. So, the Introduction/background of the study may be based on the theories, principles, official report and records, finding of the other researches, etc. This part should not contain tables, points and heading as far as possible and should be more in paragraph form.

You must justify, why you do select this topic/problem for preparing the term paper. And after the completion of the paper who will be benefited from the findings of the paper. So, try to justify and give the importance of your paper in logical order.

2. Objectives of the study: (General and Specific Objectives)

Objectives should be fulfilling the need of the fact to be covered keeping the title of the research in mind. Specific objectives must be specific, measurable, achievable, realistic and time bonded.

3. Methodology

Under the methodology, the methods and procedures of the paper preparation must be included. For example Internet search, library study, desk view, and meta-analysis whatever you have done during the paper preparation.

4. Results and Discussion

Results should be drawn in text, tabular and figure form. The table should be made and arranged according to following guidelines:

- Different set of tables can be made starting with set describing different features of the study. Care should be taken to include or exclude the relevant or irrelevant features.
- After this, according to each objective one set of the tables should be made.
- If the effect of any variable on the other has to be analyzed to fulfil the need of the objective, then cross tables should be made between those variables.
- In description of the tables only salient finding should be described in figures and percentage.
- If any case study is there, it should be included after the results and before the discussion.

Discussion:

- All the findings should be justified giving the valid reasons of your findings.
- The findings should be compared with the previous studies wherever needed. If they have similar finding describe that, if dissimilar then give valid justification of dissimilarity.
- At the end of this chapter write strengthens as well as limitations of your study.

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Conclusion and Recommendations:

- Conclusion should be drawn for every objective based on the findings of the study.
- Recommendations should be given- on the basis of the conclusion. These should be concrete and practical not hypothetical.
- It should be in concise form as far as possible.

References: Harvard style or as prescribed by college/university

Appendix:

Under this heading researcher can include additional information which are related and supportive for the study such research tools, sample size calculation sheet, map of the study areas, related photographs etc

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Annex IX

Sample of log book maintain monitoring sheet

Year

Semester

Course code :.....

Course:

SN	Title	Date	Signature of teacher
1.			
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25.			

Signature of HoD/Coordinator

With this log sheet practical file should be maintained by all process from description to finalization of all task

Setha / a *Binod Regmi* *B. Mi*

Annex X

Core Committee of curriculum development

Dean Office

Faculty of Medical and Allied Sciences
Purbanchal University

Public Health Subject Committee

Faculty of Medical and Allied Sciences
Purbanchal University

Asso. Prof. Salau Din Myia

Coordinator-Curriculum development core committee
MPH, MA Sociology
Head of Department
Department of Public Health
HOPE International College, Lalitpur

- Life Member and National Secretary, Nepal Public Health Association
- Ex-member, Nepal Health Professional Council
- Member, Public Health Subject Committee, Purbanchal University

Asst. Prof. Binod Regmi

Member-Curriculum development core committee
MPH, LLB Health and forensic law, MA Anthropology
Campus Chief
Karnali College of Health Sciences

- Life Member and National Treasurer, Nepal Public Health Association

Asst. Prof. Janak Kumar Thapa

Member-Curriculum development core committee
BPH, MPH
Head of Department
Department of Public Health
Little Buddha college of Health Sciences, Minbhawan, Kathmandu

- Life Member, Nepal Public Health Association
- Member, Public Health Subject Committee, Purbanchal University

Setha/a *Binod Regmi* *B. Mi*

Annex XI

Participants in final workshop of BPH curriculum

Prof. Dr. Ram Kumar Singh, Dean, FMAS, PU
Prof. Dr. Muni Raj Chettri, Chairman, Subject Committee
Prof. Hari Bhakta Pardhan
Prof. Dr. Ritu Prasad Gartualla, TU
Prof. Nabin Shrestha, Valley College
Asso. Prof. Jagat man Shrestha, WHO
Mr. Krishna Prasad Bhusal, Chairman, ASIA
Mr. Ram Bhandari, Chairman, NEPHA
Dr. Pradep Pakurayal, Consultant, NHPC
Mr. Giriraj Koirala, Senior Officer, PU
Mrs. Shanta Thapa, Principal, HOPE
Mrs. Sanu Tuladhar, Principal, Model College
Mrs. Kiran Dawadi, Principal, OM institute of health sciences
Dr. Shyam Shrestha, Principal, KCHS
Mrs. Gyanu Basnet, Principal, B&B
Mrs Gita Pandey, Principal, NIHS
Mr. Khum Basnet, MD, LBCHS
Mr. Bikash Adhikari, MD, Koshi College of health sciences
Dr. Manoj Choudhary, MD, Oasis Medical College
Mrs Pramila Thapa, MD, Yeti College of Health Sciences
Mr. Ramananda Pandit, HOD, KCHS
Mr. Wakil Jha, HOD, Yeti College of Health Sciences
Mr. Keshav Bhurtel, HOD, NAMS
Mrs Nilu Thapa, HOD, NIHS
Mr. Raj Kumar Subedi, LBCHS
Mr. Dipendra Thapa, KCHS
Mr. Praksh Dhungana, NAMS
Mrs. Gita Pun, OM Institute of health sciences
Mr. Diwas Gartualla, KCHS
Mrs. Punyeshori Suwal, Subject committee member, public health
Representative, Shree medical college
Representative, Sanjivani College of health sciences
Representative, Birat College of health sciences
Asso. Prof. Salau Din Myia, Coordinator, Core committee of BPH curriculum development and
Subject committee member, public health
Asst. Prof. Binod Regmi, Member, Core committee of BPH curriculum development
Asst. Prof. Janak Kumar Thapa, Member, Core committee of BPH curriculum development and
Subject committee member, public health

Setha / a *B. M. Singh* *13/11/11*

**Section D: Curriculum Structure
FIRST YEAR**

FIRST SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 101.1-AP	Anatomy and Physiology	Theory	-	3	-	48	-	100	50
BPH 101.2-PFAS	Pathophysiology, First Aid and Safety	Theory	-	3	-	48	-	100	50
BPH 101.3-BI	Biochemistry and Immunology	Theory	-	3	-	48	-	100	50
BPH 101.4-MPBV	Microbiology, Parasitology, Bacteriology & Virology	Theory	-	3	-	48	-	100	50
BPH 101.5-MER	Medical Entomology and Rodentology	Theory	-	3	-	48	-	100	50
BPH 101.6-PE	Professional English	Theory	-	3	-	48	-	100	50
PSD 101.1-AP	Practical Skill Development (Anatomy and Physiology)	-	Practical	-	1	-	32	50	30
PSD 101.2-PFAS	Practical Skill Development (Pathophysiology, First Aid and Safety)	-	Practical	-	1	-	32	50	30
PSD 101.3-BI	Practical Skill Development (Biochemistry and Immunology)	-	Practical	-	1	-	32	50	30
PSD 101.4-MPBV	Practical Skill Development (Microbiology, Parasitology, Bacteriology & Virology)	-	Practical	-	1	-	32	50	30
PSD 101.5-MER	Practical Skill Development (Medical Entomology and Rodentology)	-	Practical	-	1	-	32	50	30
Total				18	5	288	160	850	450

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B. M. Singh

SECOND SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 102.1- IPH	Introduction to Public Health	Theory	-	3	-	48	-	100	50
BPH 102.2- BE	Basic Epidemiology	Theory	-	3	-	48	-	100	50
BPH 102.3- BFN	Basic Food and Nutrition	Theory	-	3	-	48	-	100	50
BPH 102.4- BCA	Biostatistics and Computer Application	Theory	-	3	-	48	-	100	50
BPH 102.5- PPT	Pharmacy, Pharmacology and Toxicology	Theory	-	3	-	48	-	100	50
TPP 102.1- IPH	Term Paper Presentation (Introduction to Public Health)	-	Practical	-	1	-	32	50	30
TPP 102.2- BE	Practical Skill Development (Basic Epidemiology)	-	Practical	-	1	-	32	50	30
TPP 102.3- PPT	Term Paper Presentation (Pharmacy, Pharmacology and Toxicology)	-	Practical	-	1	-	32	50	30
PSD 102.4- BFN	Practical Skill Development (Basic Food and Nutrition)	-	Practical	-	1	-	32	50	30
PSD 102.5- BCA	Practical Skill Development (Biostatistics and Computer Application)	-	Practical	-	1	-	32	50	30
Total				15	5	240	160	750	400

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SECOND YEAR

THIRD SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 203.1- EHE	Environmental Health and Ecosystem	Theory	-	3	-	48	-	100	50
BPH 203.2- FHMCH	Family Health, Maternal and Child Health	Theory	-	3	-	48	-	100	50
BPH 203.3- PSFP	Population Studies and Family Planning	Theory	-	3	-	48	-	100	50
BPH 203.4- FHE	Fundamentals of Health Education	Theory	-	3	-	48	-	100	50
BPH 203.5- PHCIH	Primary Health Care and International Health	Theory	-	3	-	48	-	100	50
BPH 203.6- CHOD	Community Health Organization and Development	Theory	-	3	-	48	-	100	50
PSD 203.1- EHE	Practical Skill Development (Environmental Health and Ecosystem)	-	Practical	-	1	-	32	50	30
FHE 203.2- FHMCH	Family Health Exercise (Family Health, Maternal and Child Health)	-	Practical	-	1	-	32	50	30
TPP 203.3- PSFP	Term Paper Preparation (Population Studies and Family Planning)	-	Practical	-	1	-	32	50	30
TPP 203.4- PHCIH	Term Paper Preparation (Primary Health Care and International Health)	-	Practical	-	1	-	32	50	30
TPP 203.5- CHOD	Term Paper (Community Health Organization and Development)	-	Practical	-	1	-	32	50	30
Total				18	5	288	160	850	450

FOURTH SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 204.1- MSA	Medical Sociology and Anthropology	Theory	-	3	-	48	-	100	50
BPH 204.2- AEOH	Applied Environmental and Occupational Health	Theory	-	3	-	48	-	100	50
BPH 204.3- AE	Applied Epidemiology	Theory	-	3	-	48	-	100	50
BPH 204.4- AB	Applied Biostatistics	Theory	-	3	-	48	-	100	50
BPH 204.5- APHN	Applied Public Health Nutrition	Theory	-	3	-	48	-	100	50
BPH 204.6- SHOH	School Health and Oral Health	Theory	-	3	-	48	-	100	50
TPP 204.1- MSA	Term Paper Preparation (Medical Sociology and Anthropology)	-	Practical	-	1	-	32	50	30
PSD 204.2- AEOH	Practical Skill Development (Applied Environmental and Occupational Health)	-	Practical	-	1	-	32	50	30
TPP 204.3- AE	Term Paper Preparation (Applied Epidemiology)	-	Practical	-	1	-	32	50	30
TPP 204.4- APHN	Term Paper Preparation (Applied Public Health Nutrition)	-	Practical	-	1	-	32	50	30
PSD 204.5- SHOH	Practical Skill development (School Health and Oral Health)	-	Practical	-	1	-	32	50	30
Total				18	5	288	160	850	450

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THIRD YEAR

FIFTH SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 305.1- RHG	Reproductive Health and Gender	Theory	-	3	-	48	-	100	50
BPH 305.2- CE	Clinical Epidemiology	Theory	-	3	-	48	-	100	50
BPH 305.3- AHE	Applied Health Education	Theory	-	3	-	48	-	100	50
BPH 305.4- MHBS	Mental Health and Behavioral Science	Theory	-	3	-	48	-	100	50
BPH 305.5- CHD	Community Health Diagnosis	Theory	-	3	-	48	-	100	50
TPP 305.1- RHG	Term Paper Preparation (Reproductive Health and Gender)	-	Practical	-	1	-	32	50	30
PSD 305.2- AHE	Practical Skill Development (Applied Health Education)	-	Practical	-	1	-	32	50	30
PSD 305.3- CHD	Practical Skill Development (Community Health Diagnosis)	-	Practical	-	5	-	160	100	60
Total				15	7	240	224	700	370

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SIXTH SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 306.1- HSMN	Health Service Management in Nepal	Theory	-	3	-	48	-	100	50
BPH 306.2- PHAM	Public Health Administration and Management	Theory	-	3	-	48	-	100	50
BPH 306.3- BCCH	Biodiversity, Climate Change and Health	Theory	-	3	-	48	-	100	50
BPH 306.4- TCD	Training & Curriculum Development	Theory	-	3	-	48	-	100	50
BPH 306.5- HEHF	Health Economics and Health Financing	Theory	-	3	-	48	-	100	50
PSD 306.1- HSMN	Practical Skill Development (Health Service Management in Nepal)	-	Practical	-	1	-	32	50	30
TPP 306.2- PHAM	Term Paper Preparation (Public Health Administration and Management)	-	Practical	-	1	-	32	50	30
PSD 306.3- TCD	Practical Skill Development (Training & Curriculum Development)	-	Practical	-	1	-	32	50	30
TPP 306.4- HEHF	Term Paper Preparation (Health Economics and Health Financing)	-	Practical	-	1	-	32	50	30
Total				15	4	240	128	700	370

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FOURTH YEAR

SEVENTH SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 407.1-PHR	Public Health Research	Theory	-	3	-	48	-	100	50
BPH 407.2-UHPHEDM	Urban Health, Public Health Engineering and Disaster Management	Theory	-	3	-	48	-	100	50
BPH 407.3-LMSA	Logistic Management and Software Application	Theory	-	3	-	48	-	100	50
BPH 407.4-PHESHP	Public Health Ethics, Social Health and Professionalism	Theory	-	3	-	48	-	100	50
PSD 407.1-PHR	Practical Skill Development (Public Health Research)	-	Practical	-	1	-	32	50	30
TPP 407.2-UHPHEDM	Term Paper Preparation (Urban Health, Public Health Engineering and Disaster Management)	-	Practical	-	1	-	32	50	30
TPP 407.3-PHESHP	Term Paper Preparation (Public Health Ethics, Social Health and Professionalism)	-	Practical	-	1	-	32	50	30
PSD 407.4-CPHMFP	Practical Skill Development (Comprehensive Public Health Management Field Practice)	-	Practical	-	5	-	160	100	60
Total				12	8	192	256	650	350

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 B. M. Singh
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EIGHTH SEMESTER

Course Code	Course Title	Nature of subject		Credit hour		Teaching Hour		FM	PM
				Th.	Pr.	Th.	Pr.		
BPH 408.1-NHPP	National Health Policy and Plan	Theory	-	3	-	48	-	100	50
BPH 408.2-HRH	Human Resource for Health	Theory	-	3	-	48	-	100	50
BPH 408.3-PM	Project Management	Theory	-	3	-	48	-	100	50
TPP 408.1-NHPP	Term Paper Preparation (National Health Policy and Plan)	-	Practical	-	1	-	32	50	30
TPP 408.2-HRH	Term Paper Preparation (Human Resource for Health)	-	Practical	-	1	-	32	50	30
PSD 408.3-PM	Practical Skill Development (Project Management)	-	Practical	-	1	-	32	50	30
PSD 408.4-PHRR	Practical Skill Development (Public Health Research Report)	-	Practical	-	6	-	192	200	120
Total				9	9	144	288	650	360

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Summary Chart

Course Title	Credit hour		Teaching Hour		Total BPH Full Mark	Total BPH Pass Mark
	Theory	Pr.	Th.	Pr.		
Theory	120	-	1920	-	6000	3200
Practical	-	48	-	1536		
Total	168		3456			
Total Theory Subject number		40				
Total Practical Subject number		35				
Examination marks						
Nature of Subject	Final exam FM	Internal assessment FM	Final exam PM	Internal assessment PM	Total FM	Total PM
Theory	80	20	40	10	100	50
Practical	50	As per evaluation sheet			50	30
	100	As per evaluation sheet			100	60
	200	As per evaluation sheet			200	120
Examination time						
Subject type		Time	Evaluation tools			
Theory		3 hours	Questionnaire as per guideline provided in annex			
Practical exam		As per necessary	<i>Appointed by Purbanchal University External examiner is mandatory for every practical subject</i>			
PSD						
TPP						
CHD						
FHE						
Comprehensive Public Health Practice						
Research Report						
Evaluation tools for practical: Questionnaire set by college based on practical activities, presentation, demonstration, written and viva						