

ETERNAL UNIVERSITY

Baru Sahib, Himachal Pradesh



Ph.D. NURSING HAND BOOK

Academic year 2025 Onwards

(Approved in 87th Academic Council Meeting Held on 25/07/2025)
Board of Studies Resolved to Recommend on 24/07/2025

ETERNAL UNIVERSITY

BARU SAHIB, SIRMOUR-173101
HIMACHAL PRADESH

PREAMBLE

Ph.D. in Nursing, under the Faculty of Nursing to promote doctoral education in various fields of Nursing. The Ph.D in Nursing is governed by the Ordinance issued by Eternal University.

REGISTRATION

- I. Selected Candidates applying for registration shall submit the duly filled Registration form within the stipulated time along with the prescribed fee to the university. The candidate shall furnish the information detailed below.
 - a. Qualification and details of previous study and research, if any, and full particulars of the publications to her credit in accredited journals. (attested copies to be furnished)
 - b. Title and synopsis of the proposed research work.
- II. Candidates in service shall forward application along with the consent of the guide with name, signature & seal and a No objection Certificate from the Head of the Department and Head of the Institution where the candidate is working. (Place of work) while submitting the application along with the documents mentioned under schedule for the candidates.
- III. All applications received by the university on or before the stipulated time and date shall be placed before the Doctoral Research Committee (DRC) . The Committee shall examine the applications and after screening process shall recommend University for provisional registration within three months from the last date notified for the receipt of applications.
- IV. Provisional registration shall be effective from the date mentioned as the last date for payment of prescribed fees for the selected candidates fee once paid shall not be refunded.
- V. No candidate shall, without previous permission of the Ph.D. registration committee join any other course of study or appear for any other examination conducted by the University or by any other University during the period of registration.
- VI. With prior permission from University, candidate can change place of work.

DOCTORAL RESEARCH COMMITTEE (DRC)

The Committee will consist of —

1. Dean, Health & Allied Sciences (Chair)
2. Principal, College of Nursing
3. Ph.D. Coordinator (Nursing)
4. 2–3 INC/UGC eligible Ph.D.-qualified nursing faculty (Internal)
5. 1–2 External subject experts (Rotational, as needed)

TYPES OF RESEARCH SCHOLARS

- **Full time research scholars** are those who register for Ph.D. on full time basis and are not employed anywhere.
- **Part time research scholars** are those who are presently employed in any College/School/Hospital/ Institute/Nursing department within the University jurisdiction.
- Scholars can select the guide from the list of guides placed in the University website.

SCHOLAR ELIGIBILITY

(I) Who can apply:

- M.Sc. in Nursing with at least 60% marks and Three year of teaching or clinical experience after M.Sc. Nursing.

(II) Selection:

- a) Selection for the Ph.D. Nursing scholars will be based on merit, that to be determined by entrance examination.
- b) Selection of the candidate will be based on —
 - I. Entrance test marks obtained out of 90 marks (Minimum weightage pass marks for entrance will be 60% of 90 i.e. 54).
 - II. 5 marks for candidates possessing M.Phil. in Nursing.
 - III. 5 marks weightage for publications (Only Papers Published In Scopus/Pubmed/Web of Sciences As First /Correspondence Author

RESERVATION POLICY

As per University Grants Commission (UGC) guidelines.

DURATION

(Par Time)

A candidate can register for Ph.D. course on part time basis.

- i. A candidate should complete research work and submit the thesis to the University within five years from the date of provisional registration.
- ii. Maximum period for submission of thesis will be Seven years from the date of provisional registration subject to the permission from the on the recommendations of the guide and with the approval of the university. There will be no provision for further extension of the period.
- iii. Under extraordinary circumstances, affecting a student warranting extension of period after submission of thesis, the student should submit an application to the Doctoral Research Committee (DRC) through the guide for its opinion. The decision of the DRC in the matter shall be final.

(Full-Time)

A candidate can register for Ph.D. course on full time basis.

- i. A candidate should complete research work and submit the thesis to the University within three years from the date of provisional registration.
- ii. Maximum period for submission of thesis will be Five years from the date of provisional registration subject to the permission from the Doctoral Research Committee (DRC) on the recommendations of the guide and with the approval of the university. There will be no provision for further extension of the period.
- iii. Under extraordinary circumstances, affecting a student warranting extension of period after submission of thesis, the student should submit an application to the Doctoral Research Committee (DRC) through the guide for its opinion. The decision of the DRC in the matter shall be final.

PROGRESS REPORT

After provisional registration, every candidate shall submit half yearly progress report regularly through the guide and Head of the institution.

Every such half yearly report shall be submitted for the period from 1st October to the end of March & from 1st April to the end of September.

The half yearly progress report shall cover the following aspects:

- Progress in the review of literature
- New data acquired or theoretical background/techniques developed
- Progress/Standardization in research methodology
- Discussion of the work done

If the candidate fails to submit two consecutive half yearly progress reports in time, her provisional registration shall stand cancelled.

If two consecutive half yearly progress reports are not satisfactory, the may recommend to the University for cancellation of the registration.

PRE Ph.D. EXAMINATION

The provisional registration of the candidate shall be confirmed only after she has passed the pre Ph.D. examination which shall be conducted after the completion of one year from the date of provisional registration of the candidate.

The scheme of Pre Ph.D. examination to be conducted by the university shall be as follows.

Sl. No.	Subject	Duration	Marks	Conducted by
Paper I	Research Methodology & Applied Statistics	3 hrs	100	Eternal University
Paper II	Nursing Science & Theory Development	3 hrs	100	Eternal University.
	Seminar/Term paper in the area of research (Internal assessment)	-	100	Internal
	Viva Voce (Proposal defense)*	-	100	Internal

** > = 60% of marks will be considered as pass*

Note: 70% attendance is compulsory for contact hours. If the student does not have 70%, she will not allowed to appear for the examination, however they have to make up for the same next academic year.

The syllabi for both the papers shall be as prescribed by the Indian Nursing Council.

Procedure For Pre Ph.D Examination

- The Doctoral Research Committee (DRC) shall prepare a panel of both external & internal examiners and will constitute the Board of Examiners for the conduct of the Pre-Ph.D. examination.
- The Board of Examiners for the Pre-Ph.D. examination consists of the following —
 1. There shall be double valuation of the answer scripts of Paper I and Paper II by the examiners (preferably by the examiner who have set the question papers). The marks list shall be sent by the examiners directly to the University.
 2. There shall be one internal and one external examiner for the valuation of the answer script.
 3. If the difference of the marks in valuation between the two examiners exceeds 15% of the concerned answer scripts, the same will be valued by the third examiner. The marks awarded by the third examiner shall be sent to the University concerned for the announcement of results.
 4. The Viva-Voce (proposal defense) examination shall be conducted in presence of the panel consisting of —
 - Two examiners (Subject Experts) appointed by the University
 - Guide/Co-Guide
- I. The candidate shall be declared as successful in the examination if she secured not less than 60% of marks in each paper.

In case the candidate is not successful in the Pre-Ph.D. examination in the first attempt she may be given two more chances to appear for entire examination after a period of six months. Further, if she is unable to attend or appear in the supplementary examination, then she has to appear in the next regular examination, after that she will not be permitted to sit in the examination.

- II. If the candidate is not successful in the Pre-Ph.D. examination, even in the second appearance, her provisional registration shall stand cancelled.

RESEARCH GUIDE

The candidates may select the guide from the list of guides recognized by the university

To be considered as a guide by the university shall be a nurse:

- Shall be M.Sc in Nursing completed from institution found suitable under section – 13 &14 of INC Act.
- With Ph.D. degree in Nursing with 5 years PG teaching experience as a Lecturer and above with minimum 5 scientific publication in referred Journals.
- Shall be working in PG teaching institution found suitable under section-13&14 of INC Act.
- As far as the guides are concerned they would be ordinarily permitted to be guides until the age of 65 years and this is relaxable in exceptional cases.
- Guide cannot have more than 6 candidates at any given point of time (including the candidates from other universities).
- Candidate can have Co-Guide from nursing or other discipline, if necessary.
- The Ph.D. doctorate holders who are not formal teachers can be appointed as Co-Guides.

CHANGE OF GUIDE

Change of guide may be allowed within a period of less than two years. In extraordinary circumstances warranting change of guide, the guide and/or the student should place the facts before the Doctoral Research Committee (DRC) for its opinion. The decision and the recommendations of the Doctoral Research Committee (DRC) shall be final.

SUBMISSION OF THESIS

(For part- time candidate)

Any candidate who has completed the minimum period of five years doing prescribed research from the date of her provisional registration and not less than three months before the expiry of the maximum period prescribed for submission of thesis may submit an application along with five copies of synopsis of the thesis through the Guide, to the Doctoral Research Committee (DRC).

Candidate must have publish two original research paper as first author in the scientific

journal indexed in PubMed/ Scopus/Web of Sciences before submitting the final synopsis.

After the approval, four copies of the approved final synopsis (hard copy/pen drive) shall be sent by the Doctoral Research Committee (DRC) to the university who shall proceed with the Constitution of Board of Examiners for the adjudication of the Ph.D. thesis and keep it ready prior to the submission of the thesis.

Every candidate shall submit with her application, five copies of the thesis embodying the results of the research carried out by her within six months after the submission of the final synopsis.

A candidate may also submit along with her thesis papers published by her embodying the results of investigation for the Ph.D. degree and also any other contribution/s to the knowledge of her subject or any cognate branch of the subject.

Every candidate shall submit with her thesis, a certificate from the guide/s under whom she worked, that the thesis, submitted is a record of research work done by the candidate during the period of study under her that it has not previously formed the basis for the award of any degree or diploma, associateship/fellowship or any other similar award.

If, however, the thesis submitted has formed in part the basis for the award of previous research degree the candidate shall clearly set forth in a preface or written statement the portion(s) which have formed the basis for the award of the previous degree.

Along with the thesis the candidate will also produce a “No Due Certificate” from the Chairman/Head of the Department and Head of the Institution where she has worked and from the University Librarian and Finance Section

Ph.D. EXAMINATION

For the adjudication of Ph.D. thesis there shall be a Board of Examiners of two external members to be chosen by the University, from the panel of examiners. The guide shall be the Chairperson of the Board of Examiners. However, under extraordinary circumstances, the university may appoint a Chairperson other than the Guide from the panel of Board of Examiners.

Each external examiner appointed to adjudicate the thesis shall send the report to the Chairperson within two months from the date of receipt of the thesis. Such reports should include:

- a. A critical account of the work of the candidate as embodied in the thesis and the evaluation of the work in term of its contribution to the advancement of knowledge.
- b. Details of any questions to be asked or points to be clarified at the Viva-Voce examination.
- c. Definite recommendations as to whether the Ph.D. degree should be awarded or not.

The Chairman shall forward to the university the individual reports of the examiners along with the consolidated recommendations of the Board of Examiners.

If both the examiners give definite recommendations against the award of the degree, the thesis shall be rejected. If one of the examiners gives a definite recommendation against the award of the degree the thesis may be referred to third external examiner, from out of the panel recommended by the university. If the report of the third examiner is favourable, then the candidate shall be eligible to appear for the Viva-Voce examination and if it is not favourable, then the thesis shall be rejected.

If one of the examiners makes qualified recommendations with valid reasons (for e.g. to resubmit the thesis after suitable modifications), the Chairman shall communicate the same to the Registrar (Evaluation), who will in turn intimate the candidate for resubmitting the thesis of the suitable modifications within six months from the date of communication. The resubmitted thesis with suitable modifications will be sent to the same examiner and the reports received thereon by the Chairperson shall be communicated to the Registrar (Evaluation).

No candidate shall, however, be permitted to submit the thesis more than two times.

The thesis may be published in any form after obtaining necessary permission from the University.

VIVA-VOCE EXAMINATION

Viva-Voce examination shall be conducted after the receipt of the satisfactory report, on the thesis from all the examiners. The viva voce examination shall be conducted by a Board constituted as follows.

- i. Guide/Chairperson
- ii. Guide/Co-Guide (in case Guide is not the Chairperson)
- iii. At least one of the external examiners shall be present at the Viva-Voce examination. However, under extraordinary circumstances, where any external examiner cannot be present at the Viva-Voce examination, the Vice-Chancellor may appoint any external substitute examiner from the panel constituted by the university.

Teachers and research scholars of the concerned departments/institutions may be invited as observers only to attend the Viva-Voce examination.

The Viva-voce examination is primarily designed to test the understanding of the candidate of the subject matter of the thesis including methodology employed and her competence in the general field of study. Since the points raised by the examiners of thesis are to be clarified during the Viva-Voce examination, the report of the examiners who are adjudicated the thesis will be made available to the Board for Viva-Voce examination. The candidate shall produce all the relevant documents, materials, preparations etc, concerned with the research project during Viva-Voce examination.

Members of the Board for the Viva-Voce examination shall report specifically on whether the candidate's performance on the examination is satisfactory and therefore be considered as accepted or nor accepted.

A candidate who is not successful at the Viva-Voce examination may be permitted to undergo the Viva-Voce examination for a second time after a period of three months. No candidate shall be permitted to take the Viva-Voce examination on more than two occasions.

AWARD OF Ph.D. DEGREE

The degree will be awarded by the Eternal University, after the candidate successfully completes Viva-Voce examination, the Chairperson shall consolidate the recommendations for the award of Ph.D. degree based on the following.

- i. The report of examiners who adjudicated the thesis
- ii. Evaluation of the candidate's performance in the Viva-Voce examination

The Chairperson shall forward the consolidated and individual reports to the University. Based on these reports the University shall award the Ph.D. degree after the recommendations are approved by the Vice-Chancellor.

FEE STRUCTURE AS PRESCRIBED BY THE ETERNAL UNIVERSITY (Annexure 1) List of Annexures

1. Annexure I – Fee Structure
2. Annexure II – Application form for the Registration after selection of the candidates for the Ph.D. degree under the faculty of Nursing
3. Annexure III – List of Documents to be enclosed
4. Annexure IV – List of recognized guides
5. Annexure V – Proforma for Registration of Topic for Ph.D Thesis
6. Annexure VI- Guidelines for preparing thesis protocol (Preliminary Synopsis)
7. Annexure VII (a) – Guidelines for writing references

ANNEXURE – I

The Fee structure for Ph.D. Degree Programmes of Health Sciences

Sl. No.	Particulars of Fee	In Rupees
I	Application Fee * (Non-refundable) (including application form and prospectus- non- refundable)	Rs.2,500/-
II	Academic Fee **	
1.	Registration Fee (for selected candidates)	Rs.4,000/-
2.	Fee for change of title	Rs.1,000/-
3.	Fee for extension Registration	
	i) Upto six months	Rs. 1,000/-
	ii) After six months and upto one year	Rs. 2,000/-
III	Examination Fee **	
1.	Pre Ph.D. examinations fee	Rs.15,000/-
2.	Penal fee for late submission	Rs.1,000/-
3.	Ph.D. examination fee (To be remitted along with the thesis)	Rs.25,000/-
4.	Penal Fee for late submission of Thesis	Rs.2,000/-
IV	Annual Fees to the University	
1.	Annual Fees (for part-time candidates)	- Rs.100000/- Year (non- refundable) For five years - Rs.1,25,000/- per year for 6th & 7th Year.
2	Annual Fees (for full-time candidates)	- Rs.100000/- Year (non- refundable) For three years - Rs.1,25,000/- per year for 4th & 5th Year.

ANNEXURE –II

Application form for the Registration after selection of the candidates for the Ph.D. degree under the faculty of Nursing

1.	Name in full (in capital letters)	
2.	Address of the place of work in full	
	Telephone	
	Fax	
	E-mail	
3.	Address for correspondence	
	Telephone	
	Fax	
	E-mail	
4.	Sex	
5.	Nationality	
6.	Date of birth (in figures)	
7.	Place of work	
	Designation	
	Address	
8.	Details about qualification (under graduate/ Post Graduate Diploma/Degree in Nursing)	

8a. U.G.

Degree	Name of the college/ University	Year of passing	Subjects Offered	Division/ Grade	Percentage of marks

8b. P.G.

Degree	Name of the college/ University	Year of passing	Speciality/ Electives	Division/ Grade	Percentage of marks

8c. Any other degrees/diplomas

Degree	Name of the college/ University	Year of passing	Subjects offered	Division/ Grade	Percentage of marks

9.	Title of the proposed research work/thesis for Ph.D. along with a preliminary Synopsis of the work to be carried out (Enclose three copies along with one C.D.)	
10.	College/Institution in which the candidate proposes to conduct the research work for Ph.D. course	
11.	Name, qualification & designation of the Guide, who will be guiding the candidate (Enclose acceptance letter from the Guide)	
12.	Whether at present candidate is getting any research fellowship/grant/scholarship If Yes, state i) Name of University/Institution ii) Year of Fellowship/Grant iii) Duration of Fellowship/Grant iv) Source of Fellowship/Grant v) Value of Fellowship/Grant & its tenure If No. How will you support yourself financially during the Ph.D. course?	
13.	Are you an employed? If so, furnish the details and produce "No Objection Certificate" from concerned employer	
14.	Whether all the documents listed in Annexure – III enclosed or not	

I hereby declare that all statements made in this application are true, complete and correct to the best of my knowledge and belief. I understand that in the event of any information being found false or incorrect, my candidature for Ph.D. in Nursing degree is liable to be cancelled.

Place:\
Date:

Signature and name of the candidate

Remarks of the Guide

Place
Date:

Signature & Name of the Guide

Name, Signature & Seal of Dean/Director/Principal of the Institution

Place:
Date :

ANNEXURE –III

LIST OF ATTESTED DOCUMENT TO BE ENCLOSED ALONG WITH THE APPLICATION AFTER QUALIFYING ENTRANCE EXAMINATION & SELECTION

1. B.Sc. Nursing Degree Marks List
2. B.Sc. Nursing Degree Certificate
3. M.Sc. Nursing Degree Marks List
4. M.Sc. Nursing Degree certificate
5. Consent letter from the Guide/co-Guide, if any.
6. No Objection Certificate from Head of the department/institution, if she is employed
7. Brief proposal of research work with three copies and one CD
8. Any other relevant information/publication
9. Authentication from SNRC with regard to RN&RM Certificate.
10. Verification of Original Certificates & Documents by the PhD Coordinator
11. **Pay Fee through Online - Rs.100,000/-** towards admission has to be submitted.

Account Holder	:	Eternal University
Account No	:	30957030400
Banker's Name & Branch	:	SBI, Baru Sahib (HP)
IFSC Code	:	SBIN0011784

Note: Attach only attested photocopies of marks card, degree certificates, or of any other document.

DO NOT ENCLOSE THE ORIGINALS

Annexure IV – List of recognized guides

S No.	Name	Area of Speciality	Address	Maximum Allotment of the Ph.D Scholar	Email & Contact no.
1	Dr. Bharat Pareek	Psychiatric Nursing	Professor Akal College of Nursing Eternal University Baru Sahib HP	6	Pareekbharat10@gmail.com (M)-9914583417
2	Dr. Mehamuda Regu	Community Health Nursing	Principal Akal College of Nursing Eternal University Baru Sahib HP	6	Mehmoodaregu40@gmail.com (M) 7889404303

ANNEXURE - V

PROFORMA FOR REGISTRATION OF TOPIC FOR Ph.D. THESIS **(Preliminary Synopsis)**

1.	Name of the Candidate and Address (in block letters)
2.	Name of the Institution where the research is going to be carried
3.	Name of the Guide
4.	Name of the Study Centre
5.	Title of the research Topic
6.	<p>Brief resume of the intended work (not exceeding 1000 words)</p> <p>Need for the study Review of literature Research question Objectives of the study Operational definition Tools & technique Sample & sampling technique Method of data collection Plan for data analysis List of references</p>
7.	<p>a. Does the study require any investigations or interventions to be conducted on patients or humans or animals? If so, please describe briefly</p> <p>b. Has ethical clearance been obtained from your institution (Copy of the certificate to be attached)</p>
8.	Signature of the candidate
9.	<p>Remarks of the guide</p> <p>Name & Signature _____</p> <p>Designation _____</p> <p>Place & Date _____</p>
10.	<p>Remarks of the Head of the Department</p> <p>Name & Signature _____</p> <p>Designation _____</p> <p>Place & Date _____</p>
11.	<p>Remarks of the Principal</p> <p>Name & Signature _____</p> <p>Designation _____</p> <p>Place & Date _____</p>

ANNEXURE –VI

Guidelines for preparing thesis protocol (Preliminary Synopsis)

Preparing the protocol or preliminary synopsis is an initial but an important step for carrying out research work and for writing a thesis the award of Ph.D. degree. The following is intended to help you in preparing the protocol.

1. TITLE OF THE TOPIC

The title should be brief as possible but should carry as much information as required.

2. BRIEF RESUME OF THE WORK:

- a) Give brief introduction to the work you intend doing by focusing OR present literature on the subject, gaps in the knowledge, if any, and the reasons for undertaking the study. You may have to quote a few references or other studies (About 100-500 words of introduction).
- b) State the research question.
- c) Give the objectives of the study. The objectives usually should not be more than 2 to 4 and should relate to the points or key questions raised in introduction (about 50-300 words for objectives).
- d) Review of the literature and give 10-15 references pertaining to the subject and work already published. It should be related to the objectives of the study.

3. MATERIAL AND METHODS: (About 500 words)

Briefly explain the source from which you would collect data for the study. For example, in clinical settings, it may be patients in hospitals, or in community settings, or it may be households or it may be a laboratory based study.

Describe the method of collection of data. For instance, it may be interview or study of records or by animal experiments or by performing tests or laboratory investigations or even through some intervention. In case of human or animal study, mention the inclusion and exclusion criteria. If there are any ethical issues involved, mention them and state how you intend to overcome.

If you are taking a sample, mention the sampling procedure and sample size.

Thus it is important to mention the subjects of your study, parameters and the procedures.

Give the operational definitions.

4. Results (In case if some preliminary studies have already been conducted)

5. SUMMARY & CONCLUSION (In case if some preliminary studies have already been conducted)

6. REFERENCES:

Give about 4-6 references or articles quoted in your introduction or those related to your study. Follow the guidelines given in Annexure IX for writing references.

ANNEXURE –VI (a)

The Vancouver Style of Writing References

GUIDELINES FOR WRITING REFERENCES

DIFFERENT COMPONENTS OF REFERENCE AND METHOD OF TYPING

Name order	Last name first (of first author when more than one author)
Placement	End of body of report - listed alphabetically by last name of first author or follow Vancouver style (N Engl J Med 1991, 324: 424-89).
Punctuation publication	Author name, Title, Place of Publication: Publisher, State of
Page reference	Total number of pages in book or in article

EXAMPLES OF CORRECT FORMS OF REFERENCES

Articles in Journals

A. Standard journal article

(List all authors, but if the number exceeds six give six followed by et al.)

- 1) Bhatti RS & Beig MA. Family violence - A Systemic Model. Indian Journal of Psychiatry 1985 1 (20) 174-185.
- 2) Mueller Christine, Nurse Staffing in Long-term care facilities, JONA 2002 Dec; 32: 640-7.
- 3) Monsen Rita Black, The Child in the Community – Nursing Makes a Difference, J Paed Nursing 2002 Dec; 17 (6): 439-440.

B. Books and other monographs

- 1) Andrews FM & Withey S. Social indicators of well being- Americans perception of life quality. New York, Plenum Press, 1976.
- 2) Marlow Dorothy R., Barabara a. Redding, Text Book of Paediatric Nursing, Sixth Edition, Philadelphia: Saunders, 1998.
- 3) Nicholos, Zwelling, Maternal-New Born Nursing, First Edition, Philadelphia: Saunders, 1997.

C. Organisation as author

- 1) Survey Research Centre, University of Michigan. Monitoring the quality of American – a proposal to the Russian Sage Foundation. 1970.

D. No author given

- 1) Coffee drinking and cancer of the pancreas (editorial). BMJ 1981; 283:628

E. Unpublished material

- 1) Lillywhite HB, Donald JA. Pulmonary blood flow regulation in aquatic snake. Science. In press.

F. Reports

- 1) CAMHADO, Its Priority Programme for Prevention of Brain Damage Due to Birth Asphyxia, CAMHADO Report, 1983-1999, Nov. 1999.
- 2) UNICEF, Challenges and Opportunities Produced by United Nations Childrens Fund, UNICEF, India Country Office, 1999-2002.
- 3) WHO, Thermal Control of the Newborn, A Practical Guide, WHO Geneva: 1993, WHO/FHE/MSM/93.

G. Dissertation

- 1) Parul Datta, A study to evaluate the effectiveness of planned teaching programme on thermoregulation of neonates in terms of knowledge and practice of the nursing personnel working in the labour room and the neonatal care – Unit in selected hospitals of West Bengal, Unpublished Master of Nursing Dissertation, University of Delhi, 1996.

H. Newspaper article

- 1) Editorial In '*Prajavani*'- Karnataka Darshan, Nov. 14, 2002.
- 2) Hema Vijay, Talk to help the deaf hear, '*Deccan Herald*' 2004 Feb; 2 (Col.2).