

CERTRAL SERVICES

CENTRAL LIBRARY

The total collection of books and bound volumes of periodicals in the Central Library System at Shillong Campus as on 31.03.1995 stands at 1,73,624 this includes the books and bound periodicals housed in the departmental libraries of Physics, Chemistry, Mathematics, Education and Sociology (Books only). A bibliographical data base of books received at the library was started in 1990 and currently the data base can be searched through author, title, subject heading or key word. As most of the teaching programme and research in NEHU is oriented towards NE India, a special emphasis is laid on procurement of books on north east India and most of the books published in recent decades are available in the library.

The following programmes and tasks have been under taken during the year 1994-95.

Special Grant

In addition to the budgeted allocation the library received an amount of Rs.48,65,852. Out of the grant the library was able to make purchase for books, bound journals, arrange binding for loose journals and procure furniture and equipments. The brief report is presented below :

[i] Books and bound journals (added to the library)	- 7200
[ii] Journals bound	1905
[3] Equipment	
[a] Modi Xerox 1040 (Zoom)	- 1
[b] Book Cases	- 25

With above addition the total collection of library books as follows :

[1] Book	- 1,71,719
[2] Bound Journals	- 1,905
Total collections	- 1,73,624

Circulation Work

The number of registered users of the library is 2836 upto 31.03.1995 and average daily issue has been 284 volumes, and average number of readers consulting the library per day has been 450.

Equipments added to the library

Computer AT 386 SB (Under INFLIBNET programme)

Publications

Dr. Lalit P. Pathak
 "Identification of Main Concepts used in Sociology and their Categorization" (Co-author Prof. J.C. Binwal) Knowledge Organisation (Frankfurt, Germany) 21(2), 1994:64-79.

Seminars/Workshop attended

Mrs. I. Majaw, Librarian and Miss K. Marbaniano, Professional Assistant attended an one day workshop on User Education in Assam Agricultural University, Khanapara Campus, Guwahati.

Statistics at a glance

Item	Year		
	1992-93	1993-94	1994-95
No. of book (cumulative)	132177		142117
Budget for Books			
Recurring (in lakhs)	5	4	4
Non recurring (in lakhs)		27	44.48
Bound periodicals	27628		31485
Special grant for back volumes (in lakhs)			9
Joournals subscribed	737	693	749
Periodical Budget (Rs. in lakhs)	52.15	49.6	60
Registered user of the library	3129	3136	2836
Daily average issue	175	329	450
Income from reprography	58665.25	48.840	22.266
Overdue Fine	10501	4945	1815

MIZORAM CAMPUS : LIBRARY

When the Mizoram Campus came into existence in 1979, books used to be supplied by headquarters to meet the demand of students and teachers. This continued for a few years; but with the appointment of an Assistant - Librarian in 1982, the library started acquisition of reading materials on its own. The library has been gradually growing and is now occupying a separate building consisting of three floors whose area totals 15.00 Sq.Metres. The Library is in charge of an Assistant Librarian K.M.Zakhuma.

The number of books procured and number of journals subscribed during the given period are given below.

1. Number of Books : 1360 Nos.
2. Number of Journals : 77

2.MEDICAL FACILITIES.

The Health Centre Shillong caters to the Health Needs of the NEHU population totalling about 7000 which includes students, Teaching Staff and their dependants and Non-Teaching Staff and their Dependants.

The present strength of the Medical and para Medical Staff at the Health Centre is :-

1. Medical Officers - 3
2. Staff Nurses. - 3
3. Pharmacists. - 2
4. Attendants. - 1
5. Dressers. - 1

Service provided at Health Centre.

1. Consultation :- patients can consult any of the Medical officers during the prescribed periods at Health Centre on every working day and the Medical officers are also available outside of duty hours during emergencies.

2. Pharmacy :- Medicines are purchased and stocked to be dispensed to the patients as per Doctors' prescriptions.

3. Nursing Services:- Nursing Services like dressings, Injections and catheterizations are provided.

4. Minor surgical procedures like suturing of Wounds, incisions etc. are done.

5. First Aid :- First Aid and emergency services are provided during sports events and other such occasions.

This facility is extended to Non NEHU local population when required.

6. Immunization :- Immunisation of children and adults is regularly done, and this facility is sometimes given to the general population.

7. Health Education :- Health Education regarding personal Hygiene and other preventive measures is regularly imparted to the NEHU population.

8. Referrals :- As in-patient facilities are not available in the NEHU Health Centre the cases requiring Hospitalisation and specialised treatment are referred by the Sr. Medical officers with the approval of Vice-Chancellor to the Hospitals within the State and outside the State.

9. Blood glucose estimation and Blood Group determination are the only Laboratory Tests performed here.

10. A Project to prepare a List of Voluntary Blood donors belonging to NEHU has been started recently.

Besides the Health Centre at Shillong the University also has a Health Centre at Aizawl consisting of 1 Doctor, a Nurse and Pharmacist which cater to the NEHU population at Aizawl on similar lines.

3. REGIONAL SOPHISTICATED INSTRUMENTATION CENTRE

The Regional Sophisticated Instrumentation Centre (RSIC), was established to cater to the analytical requirement of the scientific community in the North-Eastern Region. In addition it conducts training workshop and offers limited repair and maintenance services.

Head: Prof. D.T.Khathing.

Services Offered:

The analytical instruments include UV-Vis, IR, FT-IR, FIR Spectroscopy, Atomic Absorption and Inductively coupled Plasma Spectroscopy, proton NMR and 300 MHz FT-NMR Spectroscopy, Scanning and transmission Electron Microscopy. The Centre also provides maintenance services of research instruments, computers, A/C and all compressor based units, to institutions in and around Shillong.

Workshops/ Seminars:

The Centre organised a 3-day regional workshop on Electron Microscopy in June 1994 and a one day application seminar on HPLC in August 1994. The Centre also participated in the UGC sponsored refresher courses of Chemistry, Zoology and Botany by way of demonstration lectures. The formation of the North-east India Electron Microscope Society was initiated by this Centre and the first general meeting was hosted by it in February 1995.

Prof. D.T.Khathing participated in 82nd Indian Science Congress, January, 1995 (Physics Section).

Staff Award/ Training

Staff training was arranged by deputing Shri Debashis Dey of the FT-NMR section, to Spectrospin, Switzerland for one month to learn on the application and operational aspects of 1D and 2D NMR.

Dr. Basu Baul, Scientific Officer, was awarded the BOYSCAST (better Opportunity for young Scientist in the Chosen Area of Science & Technology) fellowship by the Department of Science & Technology, Govt. of India, at the Adelaide University, Australia for one year.

Mr. Thomas Job, M.Tech, Scientific Officer, RSIC was awarded the Australian Development Corporation Scholarship (ADCOS) through MHRD, Govt. of India for three years at the La Trobe University, Melbourne, Australia.

R & D Collaboration, with

- (a) RRL, Jorhat.
- (b) Zoology Department, Gauhati University
- (c) Assam Agricultural University, Khanapara, Gauhati.

Publications:

1. Bajpai P.K. Biswajit P, and basu Baul T.S.- " Structure of some arylazophenols and arylazonaphthols in solid state: A resonance Raman study" J. Raman Spectrosc. (1994).
2. Sudip D., Dev M.K., Verma A.R., and Dkhar B.. " Intra- and inter-cellular specialization of photoreceptor cells and orientation of pigment bodies as a physiological adaptation to dim-light vision in a cat fish", *clarius batracus*, CYTOBIOS (In Press).
3. Sudip D., Dkhar B. and Chira R.B. " The optical significance of site specific elemental distribution in a fresh water fish lens". CYTOBIOS (In press).
4. Bajpai P.K., Paul B. and Basu Baul TB., "Structural characterization of some 8-quinolinol containing azodyes in solid and solution state as probed by resonance Raman, FT-IR and electronic spectronic spectroscopic technique", J. Raman Spectrosc., In Press (1995).
5. Goswami U.C., Dey S., and Das B.K. "Scanning electron microscopic studies on the effect of vitamin.A deficiency on the lens of *Heteropneustes fossilis*", *Vision Res.*, in Press (1994).
6. Dey, S., Choudhury, S. and Raghuraman, A. " Structural and chemical specialization of the cuticle of a bug, *euthenes* sp. In relation to its photophysiological properties". *Cytobios* (accepted).
7. Dey, S., "Possible ultrasonic receptors as a physiological adaptation to the characteristic mode of life of the bat fly, *Mystacinobia zealandica*". *Curr. Sci.* (accepted).

UNIVERSITY SCIENCE INSTRUMENTATION CENTRE

USIC, NEHU, Shillong started in the year 1977 as USIC Level I. Thereafter it was upgraded to level II as per UGC Guideline, 1990. An expert team from UGC had visited the USIC on 26 and 27th May 1994 to assess the requirements for extra positions and financial inputs to strengthen the activities. Efforts are made following the guidelines provided by the UGC, to assist the University Departments/Centres in the maintenance and repair of the equipment. The Department also provides an opportunity to develop techniques for maintenance of equipments and accessories.

USIC is well equipped with different machines from India and abroad which are being utilized for various mechanical and carpentry work as well as for repair/maintenance/fabrication of scientific equipment and accessories.

The Centre has installed and commissioned nearly twenty different machines.

Head of the Centre : Prof. A.L.Verma.

Course conducted :

(a) Certificate Course : Nil

(b) Diploma Course : The Centre has been regularly extending help to the Students of various Schools & Colleges on the subject of various technical courses eg. making project work; making printed circuit board & repair etc.

Other activities of the Centre :

USIC is divided into various section :

(a) Electrical & Electronic Section.

(b) Carpentry and Painting Section.

(c) Glass Blowing Section.

(d) Mechanical & Welding Section.

Each section has been doing the relevant maintenance, repair and fabrication work to cater to the needs and requirement of different departments/Centres of our University. Details of various jobs undertaken and completed are maintained by the USIC. Records of different activities are available with the Centre.

Faculty Position : 1 P.S.O. (Not yet filled).

(a) Name of the teacher : Prof. A.L.Verma.

(b) Designation : Professor of Physics and Head, USIC.

Any other remarks :

Seven persons working on adhoc basis in USIC for the last 5 or 6 years were regularized by the University Authorities.

COMPUTER CENTRE

The Computer Centre was established to provide computation facility to faculty members, research scholars and students of the University, to conduct training programmes in computer related subjects to provide consultancy services, data analysis, report generation and any other related services as and when required.

Head of Centre: Dr. S.N. Rai

Course Conducted:

(a) University Level Computer Course "Computer Today" to M.Phil, Pre-Ph.D students.

March 1994 - June 1994 : Botany, Zoology, Biochemistry, Biophysics Departments.

July 1994 - Sept. 1994 : Khasi, English Departments.

October 1994 - Dec. - 1994 : Physics, Chemistry Departments.

(b) Computer in Library managements:

March 1994 - June 1994 : M. Lib students.

(c) "Numerical Methods in Programming" to M.Sc .. Pre- Ph.D students.

March 1994 - June 1994 : Physics and Chemistry Departments.

Other Activities:

- Provided computer facility to IGNOU students for DCO course.

- Provided computation analysis for State Resource Centre, NEHU on data pertaining to literacy in Meghalaya, Arunachal Pradesh and Mizoram.

- General computational / compositional assistance to national Symposium on cancer Research, NEHU, February 1995.

PUBLICATIONS:

1. Baipai, R.P. and Rai, S.N. " Retrieval Characteristics of Multiple Site states networks with self Interaction". Computer Physics Communication, 88 (1994), 88.

2. Sinha, T.K. and Shukla, P. " Hysteresis in Neural Networks ". Physical Review -E (1994).

PUBLICATIONS

NEHU Publications continued with its printing and publication programme. College level text books were published by the department during the year under report. The complete press machinery was reinstalled in Bign Complex. Printing of various forms, answer-scripts etc. for the Examination Deptt. and also forms under Stationary items were under taken.

A general book Gandhian World View-A Civil Liberty Perspective by G Haragopal was published by the Deptt. A Booklet on AIDS for the Centre for Adult and Continuing Education was printed under special arrangement with NEHU Publications. The department also produced improved pace content Learning material in Khasi, Mizo and Garo for the State Resource Centre, NEHU for meeting the requirement of the National Literacy Mission.

Two issues of the NEHU Journal of Social Sciences and Humanities which is periodical was brought out during the year.

The University is exploring the possibility of appointing agents/distributors for its publications. Sales were also made through exhibitions. The Publication Cell participated in the North East India Political Science Association Conference held on the 30th and 31st March, 1995 at NEHU Permanent Campus, Shillong by holding Book Exhibition of NEHU Publications. Sales during the year are given below.

Intent.	
1. Text books	Rs. 2,97,749.00
2. General Books	Rs. 4,689.00
3. Royalty received from Publications Under Subsidy Scheme	Rs. 4,604.00
	Rs. 3,07,240.00

A decision to procure a Desk top Publishing System and a small Dufset machine was taken by the Governing Board of NEHU Publications. On installation of these machines the Deptt. will be in a position to offer better services.

The Director Professor H.W. Sten left the Department in July, 1994 and Professor Imdad Hussain took over as Director of Publications and in addition was also appointed as Editor, NEHU Journal of Social Sciences and Humanities.

DEVELOPMENT ACTIVITIES

The two departments, Planning and Campus Development, are responsible for all development activities in Shillong and Aizawl Campuses. The first is concerned with drawing up of perspective plans of the University, implementing various scheme approved by the UGC, and preparing proposals for development grants for construction of Academic, Administrative and residential buildings, strengthening of libraries, acquisition of equipments and strengthening of faculty of Academic department and centres. The construction of the campuses in Shillong and Aizawl and related matters is overseen by Campus Development Department in Shillong.

Other development activities related to colleges admitted to the privileges of the University. In this respect the College Development Inter alia assists in assessing development needs of such affiliated colleges in preparing projects particularly for submission to external funding agencies including UGC, and generally extends help in their overall development.