

NEHU NOTES

PART-IV

AGENDA PAPERS FOR THE 59TH MEETING OF THE ACADEMIC COUNCIL.

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- (iii) Syllabus for the B.Sc. Course in Bio-Chemistry.

The Committee appointed by the Academic Council in its 55th meeting had framed the Syllabus for starting the B.Sc. Course in Bio-Chemistry in St.Edmund's College from the current Academic session as per Annexure 'A' & 'B'.

The matter is placed before the Council for ratification.

( COPY)

3:3(2) ANNEXURE 'A'

NORTH EASTERN HILL UNIVERSITY  
NEHU CAMPUS SHILLONG - 7930022 (Meghalaya)

Dated the 24th June 1997.

To

The Vice Chancellor,  
NEHU, Shillong.

Sub: Syllabus for B.Sc. Biochemistry.

Sir,

Please find enclosed the B.Sc. Biochemistry Syllabus prepared by the Committee constituted by the Academic Council in its last meeting, in May 1997.

This is for your kind approval so that the College may start the Course from the ensuing Academic Session as the said Academic Council decision.

Yours faithfully,

( Prof. R. Lalthantluenga)

Chairman

B.Sc. (Biochemistry)

Syllabus Committee.

<u>YEAR</u>	<u>PAPER</u>
FIRST YEAR	I
SECOND YEAR	II, III, & IX
THIRD YEAR	IV & X.

B.SC . HONOURS

<u>YEAR.</u>	<u>PAPER</u>
FIRST YEAR	I & V
SECOND YEAR	II, III, VI, IX & XI
THIRD YEAR	IV, VII, VIII, & X & XII

PLEASE NOTE:

1. The Syllabus envisages the combination of Bio Chemistry with Chemistry and either Zoology or Botany. Should a Student wish to take Bio-Chemistry as a Pass subject, either Chemistry or Botany or Zoology may be chosen as an Honours subject.
2. Each theory paper carries 70 marks .  
Each Practical paper carries 60 marks.

T O P I C S

- Paper - I . Bioorganic Constituents of Body.
- Paper - II. Maths & Statistics.
- Paper - III. Biophysical Chemistry.
- Paper - IV. Cell Biology & Physiology
- Paper - V. Intermediary Metabolism -I
- Paper - VI. Proteins & Enzymes
- Paper - VII. Intermediary Matabolism.
- Paper - VIII. Molecular Biology
- Paper - IX. Practicals.
- Paper - X. Practicals.
- Paper - XI. Practicals.

Bioorganic constituents of the bodyIntroduction to Basic Organic Chemistry

Types of organic reactions, substitution, addition, elimination, rearrangement, condensation and polymerization.

Free radicals, carbonium carbanion Electrophilic and nucleophilic substitution.

Free radicals, in biological systems, oxygen as a free radical in the autooxidation of Fats, Free radical inhibitors in the cell such as Vitamin E.

Heterocyclic systems occurring in living systems: numbering of the ring and properties of furan, thiazole, indole, pyridine, pyrimidine, Quinone, purine and pteridine.

Chemistry of Carbohydrates

Historical perspectives, biological role.

Stereochemistry of sugars: Chiral carbon, epimers, anomers mutarotation, chair and boat forms, glycoside, glucopyranose and fructofuranose, periodic acid oxidation of sugars.

Chemistry of disaccharides (Sucrose, maltose and lactose) dextrans, starch, glycogen and cellulose.

Blood group sugar compounds

Sugar nucleotides

Mucopolysaccharides

bacterial cell wall sugar compounds

Chemistry of Lipids:

Historical perspectives, Biological role.

Fatty acids: general formula, nomenclature, and chemical properties

Lipid classification: Simple, complex the general structure and function of the major lipid subclasses - acylglycerols, phosphoglycerides,

Spingolipids, waxes, terpenes, steroids and prostaglandins.

Chemistry of Proteins:

Historical perspectives, biological role.

Protein alpha amino acids: Chemical structure, general properties.

Protein classification: size, shape, degree of association, complexity, function, etc.

Structure of peptide bond: restricted rotation, cis-trans.

3:3(6)  
PAPER - II  
MATHS & STATISTICS

Basic rule of integration, geometric meaning of integration.  
Applications in biology.

Probability and theory of errors

Determinants, interpolation and polynomial fitting

Significance of statistical methods of Biological investigation  
design of experiments in biochemistry.

Statistical evaluation of Results, probability theory, random  
variables & distribution functions.

Correlation & analysis of variance & co-variance.

Distribution t, x, f, r.

Use of packaged Statistical computer programmes for statistical  
analysis.

Non parametric statistics.

Suggested Reading:

Introducing to mathematics for life scientists (1979)  
E. Bathhelet, Springer-Verlag, New York.

An introduction to the mathematics of medicine and biology  
(1973).

J.G. Defares and I.N. Sneddon, North Holland, Amsterdam.

Introduction to mathematical biology (1975) S.I. Rubinow, John  
Wiley, New York.

Calculus for the life Sciences (1978) R. Desapio, W.H. Freeman  
San Francisco.

Mathematics, and statistics for the biosciences (1980)

G. Eason, C.W. Coles and G. Geyyinby, John Wiley, New York  
Statistics (1994). Krishnamurty et al. Jone & Bartlett Publ.

PAPER - III  
Biophysical Chemistry & Techniques

Introduction to thermodynamics- First law of thermodynamics, heat of formation & heat of reaction, second law of thermodynamics, molecular basis of entropy, Helmholtz, & Gibbs free energy, the third law of thermodynamics and calculation of entropy. Application of the first and second Laws of thermodynamics in understanding energies in living cells-transport phenomena, catalysis, Adsorption, colloids, Kinetics of Chemical reactions, macromolecular structure.

Types of Cells & electrodes, oxidations reduction electrodes, standard electrode potential & its determination, measurement of  $\Delta G$ .

Electron transfer measures and phosphate group transfer potentials, coupled reactions and simultaneous equilibria.

Hydrogen bonding in biological systems tonization water.  $\text{pH}$ ,  $\text{pK}$ .

Ionization behaviour of amino acids and protein, hydrogenion, titration curve, butler solutions and their action. Isotopes, properties of Alpha, beta and gamma radiation, double leveling, quenching, internal standard, channel ratio, external standard ratio, emulsion counting, radioactive decay autora - diography.

Basic understanding of the following techniques: sedimentation Viscometry, Chromatography, electrophoresis:

Absorption, fluorescence, Raman & CD spectroscopy; Ramchandran plot; NMR & ESR; electron microscopy ; x-ray crystallography.

Suggested reading:

1. Physical biochemistry. D. Freifelder. W.H. Freeman, Sanfrancisco.
2. Physical chemistry with applications to Biological systems. (1931) R. Chang. Macmilian, London.
3. An introduction to physical Chemistry of biological systems (1933) A.R. Peacocke, Oxford University Press.
4. Physical chemistry (1986,) P.W. atkins. W.H. Freeman, San francisco.
5. Biophysical chemistry(8 Volume). Charles R. Contor & Paul R. Schimmel (1980) W.H. Freeman & Company. 660 Market Street Sanfrancisco, CA 94104, U.S.A.
6. Physics of applied biologists (1977) N.C. Hilyard & H.C. Biggin.
7. Foundation of Biophysics (1975) A.I. Stanford Acad Press London.
8. An introduction to Biophysics (1977) c.Syborm Agad Press New York.

Cell Biology: Cell classification Cell variability  
(Size, shape, complexity, function etc).

Prokaryotes: Cell structure and subcellular organelles & components.

Eukaryotes: Cell structure & subcellular organelles & components. plant & animal cells: variations in structure and functions. microtubules, microfilaments & Cytoskeleton.

Viruses structure & classification life cycle.

Methods for studying cells & organelles: light microscopy phase contrast microscopy, electron microscopy (transmission and scanning), freeze-fracture techniques, specific staining of organelles or marker enzymes. Subcellular fractionation: Ultracentrifugation, differential and density gradient centrifugation.

Cell and tissue culture techniques : contact inhibition cancer, Growth inhibitors, cell movements and chemotaxis.

Cell division by mitosis and meiosis, Cell cycle.

Cell differentiation: Organogenesis, Morphological functional and biochemical maturation of tissues, the impact of environmental factors.

#### PHYSIOLOGY:

Homeostasis

Basal Metabolism

Glycolysis & TCA cycle.

General digestion, absorption, transport, storage of carbohydrates, lipids, proteins.

Absorption and transport of minerals and vitamins.

Adipose tissue metabolism

Respiratory and circulating systems.

The endocrine glands.

Specialised tissues and fluids, their importance

Regulation of water and electrolyte balance, and the role of kidney and hormone, in its maintenance.

Acid-base balance--the role of kidney and hormone in its control.

The nervous system and the sense organs.

Reproduction, pregnancy and lactation.

#### Suggested reading:

1. Molecular cell Biology, James Daniel, Harvey & David Baltimore (1986). W.H. Freeman and Co. 4419 West 1980 South, Salt lake city, Utah 84104, USA.
2. Molecular Cell Biology (1988) Addison Wesley publishing co, New York and London.

3. Cell Biology, C.L. Avers (1980) Addison Wesley publishing Co. New York and London (ISBN 0 442 )
4. Biology, M. Curtis, worth Publishers, New York. study guide to Biology - D.J. Fox and J.J. Cockerill Worth Publishers. New York.
5. Introduction to physiology (1975) H.Davson and M.B.Segal. Acad.Press.New York.
6. Human Physiology and mechanacs of dieasease (1987) A.C.Guyton. W.B. Saunders. London.
7. Psychology - a study guide. W.F.Ganong.Appleton and Lange, Norwalk.Conn.USA.
8. Human Physiology. Vander.McGrew Hill.New York.

PAPER - V  
INTERMED DIARY METABOLISM

Carbohydrate Metabolism

Historical perspectives

Details of Glycolysis and its regulation. Citric acid cycle and its regulation.

Pentose and other pathways of carbohydrate metabolism.

Gluconeogenesis

Synthesis of oligosaccharides.

Regulation of blood glucose, homeostasis, glycogen synthesis and its regulation

Hormonal control of Carbohydrates

Complex carbohydrates - types, general functions.

Chemistry and metabolism of aminosugars and sialic acids

Structure, biosynthesis, metabolism and function of glycoproteins and proteoglycans.

Lipid Metabolism

Historical perspectives

Beta-oxidation : detailed account of reaction pathway. Role of carnitine in acyl transport.

Fatty acid biosynthesis I : biosynthetic pathway for triglycerols, phosphoglycerides and sphingomyelin.

Lipids, biosynthesis II : biosynthetic pathway for terpenes, steroids, prostaglandins.

Ketone bodies : formation and utilization of ketone bodies.

Circulating lipids : chylomicron, LDL, HDL and VLDL. Free fatty acids.

Pathological changes in lipid level.

Control of lipid metabolism

suggested readings:

1. Principles of Biochemistry - Lehninger 4th ed. (1993) Worth Publ.
2. Biochemistry - Harper
3. Biochemistry - Stryer.
4. The Carbohydrate : Chemistry & Biochemistry - WW Pigman, ed. (2 Vol) Acad. Press.
5. Lipids & Polysaccharides in Biology -
6. Text Book of Biochem : With clinical connections - IM Devlin, ed. John Wiley & Sons.

## PROTEINS

Techniques for studying protein primary sequence experimental methods, end-group analysis, finger-printing sequencers etc.

Techniques for studying higher order structure: X-ray diffraction, ORD, CD, NMR, UV-difference spectroscopy, sedimentation velocity and sedimentation equilibrium.

Protein purification: Chromatography, electrophoresis, crystallization etc. Determining protein concentration and molecular weight.

Basic concept of protein engineering.

Protein evolution: Phylogenetic trees, convergent and divergent, evolution, composition matrix etc.

## ENZYMES

Historical perspectives

Enzyme classification: IUB Enzyme classification and Nomenclature system (rationale, overview, and specific examples).

Enzyme cofactors: Structure and biological function of variety of enzyme cofactors.

Enzyme substrate complex: Concept of BS complex binding sites, active site stereospecificity.

Michaelis - Menten equation: form and derivation of Michaelis - Menten equation. significance of  $V_{max}$  and  $K_M$ .

Graphical procedures in enzymology: advantage/disadvantages of alternative plotting procedures.

Factors affecting initial rate (S), temperature and pH. Collision and transition-state, theories, Significance of activation energy and free energy:

Enzyme inhibition: types of inhibitors and mode of action, e.g. competitive, non-competitive, uncompetitive and allosteric.

Enzyme catalytic efficiency: Factors associated with Catalytic efficiency: proximity, orientation, distortion of strain, acid base, nucleophilic catalysis. Methods of studying fast reactions.

### Suggested Reading.

1. Proteins Dickerson and Geis (1979) Addison Wesley publishing co., New York and London.
2. Protein I.E. Creighton (1983) Freeman and Sons Ltd. London (ISBN 0 7167 1566/x).
3. Protein structure G.P. Shultz and R.H. Shirma. (1979). Springer Verlag, New York and Berlin ( ISBN 0 . . . )
4. Modern Experimental Biochemistry. R. Boyer (1986) Addison Wesley publishing co., New York and London (ISBN) 0 201 10131/9).

5. Fundamentals of Enzymology N.C. Price and L. Stevens (1982). Oxford University press, Oxford and New York (ISBN 0 19 857179 3).

The Enzyme molecule. W. Ferdinand(1976) John Wiley and Sons Ltd., London and New York (ISBN 0 4/1 01821 x )

6. Enzyme Catalysis and Regulation G.G. Hammes (1982) Academic press, New York and London (ISBN 0 12 321962 0)  
Understanding Enzyme. T. Palmer (1981) Ellis Horwood Ltd., Chichester (ISBN 0 582 46217 7)

7. Enzymatic Reaction Mechanisms C. Ealsh (1979) W.H. Freeman and co., San Francisco (ISBN 0 7167 0070 0)  
Enzymes (3rd edition ) M. Dixon and E.C. WEBB ( 1979) Longman Group Ltd., London (ISBN 0 582 4617 7)

8. The Eznyms Vols.I & II (1970) B.D. Boyer (ED) Acad.Press London.

9. Enzymes in Industry and Medicine G.P. Bickerstaff (1987) Edward Arnold (Publishers) Ltd, 41 bedford Square, London WC1B 3DQ, UK(ISBN 0 7131 2935 2)

*[Faint, illegible text, likely bleed-through from the reverse side of the page]*

PAPER ! VIIIntermediary Metabolism - IIVitamins and Minerals :

Historic development of vitamins

Biosynthesis of vitamins and their bound forms.

Metabolism and function of water soluble and fat soluble Vitamins, relative stabilities of Vitamins towards various Physical and chemical agents.

Major and trace mineral-their bound forms and functions.

Hormones :

General classification of hormones and their structure

Synthesis, secretion, transport, metabolism and mechanism of action of hormones of thyroid, hypothalamus, pituitary, pancreas, adrenals; sex hormones, prostaglandins.

Cell membrane and intracellular receptors for hormones.

Hormonal interrelationships.

Nitrogen Metabolism :

Historical Perspectives

Definition, types, structure, characteristics and general functions of amino acids.

Oxidative degradation of aminoacids

Detoxification of ammonia

Biosynthesis of aminoacids & their regulation

Nitrogen Fixation

Chemical synthesis and function of oligo - and polypeptides (glutathione, endorphins, etc)

Genetic defects and their effects on aminoacid and peptide metabolism. Characteristics and general functions of purines and pyrimidines, Degradation, biosynthesis and regulation.

Suggested reading :

1. Same as in paper VI (Int.Metabo.I)
2. An introduction N. - fixation - Gallon & Clinplin, Cassell Educational Ltd. London.
3. Symbioetic Cyanobacteria, A.N. Rai, CRC Press.
4. Handbook of Vitamins - LJ.Machlin, M.Decker Probl.
5. Biosynthesis of Vitamins & Related compounds - IW Goodwin, Accd.Press. USA.

PAPER - VIII  
Molecular Biology

### Historical Perspectives

Nucleic acids as genetic information carriers : experimental evidence, e.g. action spectrum, generic transformation, Hershey-chase experiment, etc.

Mode of replication : possible modes of replication, details of Meselson and Stahl experiment. Semi conservative replication.

Physical properties of DNA : 5' direction, size range location, isolation, shear, base composition, base equivalence, gel electrophoresis, secondary structure, base pairing, base stacking, helix-coil transitions,  $T_m$  and relationships to GC content. Tertiary structures.

Genetic Code : evidence for a triplet code, properties of the code- sequential, ubiquitous (almost), degenerate, Wobble Hypothesis nonsense condons, Adapter role of tRNA, amino- acyl tRNA synthetases, anticodon loop, Direction of protein synthesis (Dintzis experiment)

Mechanism of translation : A and P sites, N - blocked aa - TRNAS, fmet - TRNA initiator codon, Shine-Dalgarno consensus sequence (AGGA). Formation of ZOS initiation complex, role IF1, IF2, IF3. and GIP Peptidyl transferase, Translocation, role of EF-Tu, EF-Ts, EF-G and GTP. Nonsense codons, role of RF1, RF2 and GTP.

Mechanism of transcription : sigma cycle, recognition, binding and initiation sites, TATA/Prinbow box, enhancer and other regulatory elements. Direction of chain growth, termination rho and Palindromes, Regulation of transcription by promoters and repressors. Concept of operon.

DNA replication : isolation and properties of DNA - dependent DNA polymerases I, II and III, in vitro assay. Roles for DNA pol I and II. Discontinuous/continuous synthesis Okazaki fragments, RNA primers, repair by DNA pol I and DNA ligase. Roles of DNA gyrase unwinding enzyme, HD protein, etc.

Rates of eukaryotic and prokaryotic protein synthesis, multiple initiation sites, bidirectional replication, bubbles, fidelity of replication

Excision-repair systems, recombinant repair systems, chemical carcinogenesis

DNA-dependent RNA polymerase : in vitro assay, physical properties of the enzyme, subunit structure, proof of template directed synthesis.

Post-transcriptional processing : maturation of rRNA and tRNA.

RNA splicing : introns and exons. Consensus sequence of junction. Mechanism of RNA splicing. Poly A tail. 5'-capping-Non-coding sequence etc. Introns and protein functional domains.

Post-transcriptional processing : signal hypothesis, Function of RBE and PRO regions, signalase, zymogen activation.

Suggested Reading

Molecular Biology of the Gene (4th edition, 1987), J.D. Watson, N.H. Hopkins, G.W. Roberts, J.A. Steitz and A.M. Weiner, Benjamin Cummings Publishing Co. 2727 Sandhill Road, Menlo Park California 94025, U.S.A. (ISBN 0 8053 96128).

Molecular Cell Biology (1986) J. Darnell, H. Lodish and D. Baltimore, W.H. Freeman and Co. 41 Madison Avenue, New York 10010, U.S.A. (ISBN 7167 60010).

Molecular Biology of the cell (1983) B. Alberts, D. Bray, J. Lewis, M. Roft, K. Roberts and J.D. Watson, Garland Publishing inc. New York and London (ISBN 0 201 103079)

Modern Experimental Biochemistry (1986) R.F. Boyer, Addison Wesley Publishing Co., New York and London (ISBN 0 201 10131/9)

Genes VI. B. Lewin, John Wiley and Sons Ltd., New York and Chichester (ISBN 0 471 807893)

Genes and Gene Regulation (1987). N. Maclean, Edward Arnold. London.

3:3:(17)  
PAPER - IX  
BIOCHEMISTRY PRACTICAL

1. Preparation of buffer solution by standard method.
2. Biochemical detection of Carbohydrates Lipids, DNA and RNA.
3. Separation of Carbohydrates and amino acids by paper chromatography.
4. Estimation of Proteins by Lowry's and Bradford's methods
5. Estimation of amino acids by NINHYDRIN and sugar by Anthrone methods.
6. Extraction of Lipids from tissues separation and estimation using TLC.

Suggested readings:

1. Modern Exptl. Biochemistry - RF Boyer, Addison Welsey publ. Co.
2. Biochemical Methods - S. Sadasivam & A. Mamicham, New Ages Int. Publ.

PAPER - X  
Biochemistry Practicals

1. Electrophoretic Separation of Proteins.
2. Determination of dextro and laevorotatory forms of sugars by polarimetry.
3. Subcellular fractionation of organelles and their identification by suitable markers.
4. Determination of A.B.O. Blood group and Rh factor.  
Estimation of haemoglobin using haemoglobinometer: RNC, and WBC counts: separation of Lymphocytes; blood glucose and SGOT estimation.
5. Isolation and estimation of starch from potato.
6. Stages of Cell division: Mitosis and Meiosis.

Suggested readings:

As in paper IX

Sigma Bulletin.

Practical Biochemistry, Wilson & Wildon.

PAPER - XI  
BIOCHEMISTRY PRACTICAL

1. Separation isoenzymes by gel-electrophoresis.
2. Isolation and purification of an enzyme by gel-filtration chromatography.
3. Determination of Molecular weight of proteins by gel-filtration or SDS - PAGE.
4. Isolation separation and estimation of photosynthetic Pigments.
5. Measurement of respiratory activity by oxygen consumption using oxygen electrode.
6. Measurement of photosynthetic activity by oxygen evolution using oxygen electrode.

Suggested reading:

As paper IX & X.

PAPER - XII  
BIOCHEMISTRY PRACTICAL

1. End group analysis of Proteins.
2. Isolation of nucleic acid from animal tissue
3. Agarose gel electrophoresis of DNA
4. Effect of inhibitors of protein synthesis (Erythromycin), DNA Synthesis (Nalidixic acid), RNA synthesis (rifampicin) on bacterial cell multiplication.
5. Effect of temperature and substrate concentration on enzyme activity.
6. Effect of electron transport inhibitors on photosynthetic oxygen evolution (use DCMU) and respiratory oxygen consumption (Use sodium azide).

GOVERNOR'S SECRETARIAT  
TECHNICAL, SHILLONG - 793001  
(COPY)  
November 12, 1996

5:7     AFFILIATION ETC

(XII) ) Affiliation to NERIST :

Letter from the Governor of Arunachal Pradesh.

North-Eastern Regional Institute of Science and Technology, Nirjuli, Arunachal Pradesh has been applying for M. Tech. Courses, at present for two Courses which were started in 1996. The matter was placed before the 55th Academic Council and it was decided as follows :

'Since the university does not have any provision for affiliating post graduate degrees in colleges, the request of NERIST may be regretted!

The decision was conveyed to the Institute. But the institute has still been pressing the university through different sources. This time, His excellency Governor of Arunachal Pradesh has sent a letter to the V.C., NEHU. The letter alongwith other documents received are placed in the annexure.

The matter is placed before the august body for discussion and consideration.

GOVERNOR'S SECRETARIAT  
MEGHALAYA, SHILLONG - 793001.

5:7:2(8)

(COPY)

No. GSNU-12/81/3182

November 12, 1998.

To

The Vice-Chancellor,  
North Eastern Hill University,  
Shillong.

Sub: The North Eastern Regional Institute of Science and  
Technology (NERIST).

Sir,

I am desired by the Governor to send you a copy  
of letter No. GS/NERIST/98 dated 5.11.98 (with enclosures)  
received from the Governor of Arunachal Pradesh for appropriate  
action.

Yours faithfully,

sd/-

( S.K. Tewari )

Principal Secretary to the Governor  
MEGHALAYA.

( COPY )

5: 7: 2: (9)

NO.GS/NERIST/98  
RAJ BHAVAN  
ITANAGAR - 791111

NOVEMBER 5, 1998.

Dear Governor,

I am enclosing herewith a copy of my letter addressed to Prof. Murli Mahohar Joshi, Union Minister for Human Resource Development for your kind perusal and appropriate action from your end as Chancellor of North Eastern Hill University.

With kind regards,

Yours sincerely,

Sd/-  
( Mata Prasad )

Shri. M.M. Jacob,  
Governor of Meghalaya,  
Raj Bhavan,  
Shillong.

RAJ BHAVAN  
ITANAGAR - 791111

November 4, 1998.

Dear Prof, Murli Manohar Joshi ji,

As you are please aware, North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh is a special institute set up by the government of India to meet the technical manpower requirements of North eastern region. The Institute is fully funded by the Ministry of Human Resource Development (MHRD).

The Institute has already submitted an application to All India Council for Technical Education (AICTE) to seek 'Deemed University' status. The matter is still under consideration in the AICTE.

The Institute has adopted an unconventional modular concept of technical education. It started its teaching programme in 1986. The Secound module i.e. diploma, was started in the year 1988. The third module degree course was started in 1990. So far, 11 batches of students have passed out with certificates, 9 bathhes of student have passed out from diploma module and 7batches have passed out with B.Tech. and B.Sc degree. In order to seek a deemed University status, the Institute was required to start a M.Tech. Course which it did in 1996 by introducing two M.Tech. courses in (1) Information Technology, and (11) Environmental Science and Engineering, after seeking due clearances from MHRD and approval from AICTE. Copies of the approval of the Ministry and AICTE are enclosed.

The Institute was expected to gain affiliation on its M.Tech course with NEHU and its undergraduate courses are already affiliated to it. However, in June 1997 the NEHU conveyed that since it does not have any provision for affiliating P.G. Courses in College the affiliation of M.Tech. courses could not be agreed to. Perhaps on the logic that since PG(M.Sc., M.A. etc) courses are offered by the Univdrsity itself, through its own in-campus departments, extra-mural affiliation was not possible.

I consider it worth mentioning here that NEHU has no school or department of engineering and technology of its own. It is, therefore an acceptable proposition that P.G. Courses being offered by NERIST are also affiliated to NEHU especially when NEHU has already accorded recognition to NERIST as a PH.D(Science) centre as normally, Ph.D.(Science) is taken as equivalent to M.Tech.

In the meantime, the firest batch of M.Tech. students admitt@d in 1996 have completed their courses of study in December 1997, and the second batch admitted in 1997 shall be completing their courses of study in December, 1998. These students are naturally concerned about their career as they are unable to seek employment on the basis of M.Tech. degree, which they are yet to get.

Realising that their requests, fully supported by the Ministry, were not being favourably responded to by North Eastern Hill University, with full knowledge of the Ministry, NERIST took up the matter of affiliation of its M. Tech courses with Punjab Technical University. The Institute sent a team for inspection and the team recommended such affiliation. But, the boared of Governors did not accede to NERIST's request for affiliation. The Institute has, therefore, besides renewing its request for affiliation for its M.Tech Course with NEHU has taken up the matter with Jawaharlal Nehru University, New Delhi as well. It is my earnest request to you that if the NEHU is not agreeable to the Proposal, either Punjab Technical University or Jawaharlal Nehru University

must be made to affiliate M.Tech. Courses of NERIST ~~xxx~~ so that the carrer of the students who have completed their courses, and those who are about to do so, are not put to jeopardy.

Although the Ministry has all along been supportive of the request of NERIST, I am making this personal request to you to use your good offices for persuading NEHU to affiliate these courses of the Institute as early as possible so that the Students can be relieved of their mental anxiety. In a delegation to me on 30.10.98, the students had also pleaded for my intervantion (copy enclosed). I am told that the next meeting of Academic Committee of NEHU is reported to be scheduled for 19th November, 1998. Therefore, i would be grateful if you could issue your directions immediately.

With regards,

Yours sincerely,

Sd/-  
( Mata Prasad )

Professor Murli Manohar Joshi,  
Hon&ble Minister for Human Resource Development,  
Government of India,  
Shastri Bhawan,  
NEW-Delhi - 110 001.

NORTH EASTERN REGIONAL INSTITUTE OF  
SCIENCE AND TECHNOLOGY : NIRJULI

Sub: Affiliation of M.Tech. Courses of NERIST to a  
University.

This is with reference to our meeting with His  
Excellency the Governor of Arunachal Pradesh on the forenoon of  
2.11.93.

In January 1996, the Ministry of Human Resource Development  
had approved introduction of two P.G. courses during the session 1996-  
97 (Annexure-I). The proposals for M.Tech courses in (i) Information  
Technology (IT) and Environmental Science & Engineering (ESE) were then  
submitted to AICTE and they conveyed their approval in November 1996  
(Annexure II). These courses were started during 1996-97 itself.

As the Institute's under-graduate courses are affiliated  
to NEHU (which was granted in December 1990), we were very hopeful  
that NEHU will affiliate M.Tech courses also. The Institute accordingly  
submitted an application for affiliation of P.G. courses to NEHU  
during February-March 1997 (Annexure-III). However, the Institute's  
proposal was considered in their Academic Council which resolved that  
"since the University does not have any provision for affiliating  
P.G. courses in colleges, the request of NERIST may be regretted"  
(Annexure-IV). In the meantime, MHRD has also conveyed HRD Minister's  
approval for affiliation of NERIST with NEHU vide their letter dated  
1-4-97 (Annexure-V).

As NEHU regretted affiliation, the Institute submitted  
an application for affiliation to Punjab Technical University  
(Annexure-VI), which was set up only in January, 1997. The response  
from PTU visited the Institute and recommended affiliation of M.Tech.  
courses subject to certain conditions (Annexure-VIII). The University  
then started back-tracking. In May 1998 the University conveyed  
(Annexure-IX) that "it may not be possible to grant affiliation from  
1998 Session. However, the proposal to grant of affiliation from the  
1998 Session is under consideration and you will be intimated of the  
decision in the near future". Finally, in October 1998 the Board of  
Governors of the University considered the matter and we have been  
conveyed orally that the request of the Institute for affiliation has  
not been accepted. This was despite the fact that the MHRD has also  
been requesting PTU (Annexure-X) to grant affiliation to NERIST. The  
formal regret letter from the University is, however, awaited.

In the meantime, we made fresh request (Annexure-XI) to  
NEHU to reconsider affiliation of M.Tech courses. The Joint Educational  
Adviser and Additional Secretary of MHRD also made request  
(Annexure-XII & XIII) to the Vice-Chancellor, NEHU to consider  
Institute's request favourably. The Director visited NEHU in the  
first week of October but orally it was conveyed to him that  
affiliation of M.Tech courses may not be possible.

The Institute has since also made a request to Jawaharlal  
Nehru University, New Delhi to seek affiliation, after holding  
preliminary discussions with concerned officers of the University

As NEHU regretted affiliation, the Institute submitted  
an application for affiliation to Punjab Technical University  
(Annexure-VI) which was set up only in January, 1997. The response  
from PTU visited the Institute and recommended affiliation of M.Tech.  
courses subject to certain conditions (Annexure-VIII). The University  
then started back-tracking. In May 1998 the University conveyed  
(Annexure-IX) that "it may not be possible to grant affiliation from  
1998 Session. However, the proposal to grant of affiliation from the  
1998 Session is under consideration and you will be intimated of the  
decision in the near future". Finally, in October 1998 the Board of  
Governors of the University considered the matter and we have been  
conveyed orally that the request of the Institute for affiliation has  
not been accepted. This was despite the fact that the MHRD has also  
been requesting PTU (Annexure-X) to grant affiliation to NERIST. The  
formal regret letter from the University is, however, awaited.

Logically, NEHU! should grant affiliation to M.Tech courses of NERIST due to the following reasons:

1. MHRD has approved affiliation of NERIST with NEHU relaxing jurisdiction clause of Arunachal University.
2. The U.G. courses of the institute are already affiliated to NEHU since beginning.
3. The University does not have any school of Engineering and Technology of their own, and they are unable to offer M.Tech courses themselves.
4. The Adviser (AICTE), to whom Director met recently, was also of the opinion that since the University cannot offer M.Tech courses through any of their Schools, it is but natural that M.Tech courses offered at NERIST are given affiliation.

The first and second batch of students who have completed their courses of study or are about to complete their courses of study, are feeling concerned as their career prospects for employment on the basis of M.Tech degree have been jeopardised in the absence of M.Tech degree which can be awarded only by a University.

In the light of the above, it is suggested that H.E., the Governor of Arunachal Pradesh, who is also the Chairman of NERIST Society, may take up the issue with the Hon'ble Minister of HRD, Govt. of India, to impress upon NEHU to grant affiliation to NERIST. A copy of this communication can be endorsed to Chancellor of NEHU Prof.C.N.R.Rao, C/O Indian Institute of Science, Bangalore and his H.E., the Governor of Meghalaya. A draft letter is enclosed.

Sd/- H.K.Sarma  
Acting Director

Secretary to H.E., the Governor of Arunachal Pradesh, Raj Bhawan,  
Itanagar

UO Note No.ACA-8/14/98 dated 2-11-98

NO.F.17-1/95-TS.IV  
 Government of India  
 Ministry of Human Resource Development  
 (Department of Education)

To,  
 The Director,  
 North Eastern Regional Institute of  
 Nirjuli -791 109  
 Itanagar.

Sub:- Introduction of P.G.Courses.

Sir,  
 I am directed to say that the Expenditure Finance Committee considered the proposal for further development of North Eastern Regional Institute of Science and Technology, Itanagar during 8th Five year plan. The EFC has approved the proposal for introduction of two (2) P.G. Courses in 1996-97. You may take further necessary steps for starting the P.G. Courses during the academic year 1996-97 including obtaining prior approval of AICTE. Receipt of this letter may be acknowledged.

Yours faithfully,

Sub:- Introduction of P.G.Courses.  
 Sd/-  
 (S.Sudarsanam),  
 Dy. Educational Adviser (T).

Sir,  
 I am directed to say that the Expenditure Finance Committee considered the proposal for further development of North Eastern Regional Institute of Science and Technology, Itanagar during 8th Five year plan. The EFC has approved the proposal for introduction of two (2) P.G. Courses in 1996-97. You may take further necessary steps for starting the P.G. Courses during the academic year 1996-97 including obtaining prior approval of AICTE. Receipt of this letter may be acknowledged.

The Director,  
 North Eastern Regional Institute of  
 Nirjuli -791 109  
 Itanagar.

Yours faithfully,

Introduction of P.G.Courses.

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

F.No.441/ARP - 281/E &amp; T (PG)/95, November 14, 1996.

The Joint Educational Advisor(T)

Bureau of Technical Education

Dept. of Education, MHRD

Govt. of India

Shastri Bhavan

New Delhi - 110001.

Sub:- AICTE approval for conduct of Post-graduate (PG)  
Course (s).

Sir, I am to state that on consideration of the recommendations made by the AICTE Task - Force constituted to assess the proposals for approval of new or on-going Post - graduate programmes and Expert Committee which visited the institution to verify the facilities available and subsequent decision by the All India Board of Post Graduate Education & Research in Engineering & Technology, the All India Council for Technical Education (AICTE) has accorded approval to North Eastern Regional Institute of Science & Technology, Nirjuli, Arunachal Pradesh to conduct the following P G Course(s), from the academic year 1996-97.

Department	Specialization/ Degree	Annual Intake (General non-spon- sored)	Full time/ Part time
Electronics & Comm. Engg.	Information Technology (M.Tech.)	10 (ten)	Full time
Civil Engg.	Environmental Sc. & Engg.(M.Tech)	10 (ten)	Full time

The approval given above is subject to the conditions given below:-

- (1) Additional 5 (five) sponsored candidates can be admitted for each of the above P G programmes.
- (2) No new PG courses in Engg /Arch /Planning /Pharm /Management Applied Arts & Crafts shall be started by the Institution without prior approval of the AICTE.

- (3) The intake for the above courses shall not be increased or decreased without the prior approval of the AICTE.
- (4) The reservations for SC/ST candidates etc. shall be over and above the intake, if such reservations are provided by the Institution as per State/Central Government's Policy.
- (5) The following minimum facilities must be created before starting the programme(s) :
- a) Equipment : Minimum additional Rs.10.00 lacs should be spent for each P.G. programme for purchase of equipment relating to the area of the programme.
  - b) Faculty: **One professor and one Asst. Professor must be recruited for each specialised area of the Post Graduate programme, in addition to the other faculty available.**
  - c) Visiting Faculty A minimum of Rs. 20,000/- must be spent for each programme in a year on visiting ~~xx~~ faculty from reputed institutions and the industries.
  - d) Library Books At least Rs. 10,000/- should be spent for each programme every year for purchase of books and/or subscription to reputed journals.
  - e) Computer There must be at least 10 additional terminals facilities or five PCs for each area of specialisation.
- (6) The admission to the above PG Programme(s) should be made in accordance with the AICTE guidelines given as Annexure-I to this letter.
- (7) The Environmental Science & Engg. Course should be redesigned converting the same into a general and multi-disciplinary Environmental Science & Engineering Programme. While designing the curricula for the programme, the following subjects should be included.

## Semester-I

- (i) Environmental Sciences
- (ii) Environmental Micro-biology
- (iii) Environmental Chemistry
- (iv) Environmental Sanitation
- (v) Air Pollution & Control.

## Semester-II

- (i) Industrial Wastewater Treatment
- (ii) Water Shed Management.

(Sd)

- (iii) Environmental Policy & Law (Section-1)  
(Impacts assessment and case studies)
- (iv) Electives (anyone).
  - (a) Unit processes and operations.
  - (b) Advanced water & waste water treatment.
- (v) Electives (anyone)
  - (a) Noise pollution & control.
  - (b) Energy System & Environment.
  - (c) Hazardous Wastes and Disaster Management.
  - (d) Any other relevant subject.

The entry qualifications for the M.Tech. Programme in Environmental Science & Engineering shall be B.E./B.Tech. degrees in Mechanical/ Chemical/ Electrical/ Civil/Metallurgical/Mining/ Agricultural Engineering or any other equivalent and relevant degrees in Engineering/Technology only.

Sd/-  
(Dr. N. K. Kole)  
Deputy Director

Copy to:-

- (1) The Director, North Eastern Regional Institute of Science & Technology, Arunachal Pradesh, Mirjuli-791109, MERIST
- (2) Dr. S.K. Misra, Apprenticeship Advisor, Bureau of Technical Education, Dept. of Education, MHRD, Govt. of India, Shastri Bhavan, New Delhi-110003.
- (3) The Secretary (Education), Govt. of Arunachal Pradesh, Itanagar - 791110
- (4) The Vice Chancellor, North Eastern Hill University, Shillong - 793001, Meghalaya.
- (5) The Regional Officer, Eastern Regional Office, AICTE (Dept. of Education), 5, Esplanade (East), Calcutta-700069
- (6) Guard file (AICTE).

Sd/-  
(Dr. N. K. Kole)  
Dy. Director

- \* -

GUIDELINES FOR ADMISSION OF SPONSORED  
CANDIDATES TO FULL-TIME PG DEGREE PROGRAMMES  
(Ref: 8th Meeting of the EC of the AICTE held on 15.2.95).

The following guidelines are laid down for Admission of sponsored candidates to full time PG degree programmes.

- (i) The candidates who possess Bachelor's degree in Engineering / Technology / Pharmacy / Architecture / Planning (or equivalent) from AICTE approved institutions with at least 55% marks will be eligible for admission.

The minimum percentage of marks may be waived for those who are teachers either in Engineering Colleges or Polytechnics joined before 28.2.1989, the date on which the circular was issued prescribing the AICTE pay scales and qualifications.

Preference should be given to those candidates who are GATE qualified. Sponsored candidates will not be eligible to receive scholarship, even if they are admitted based on GATE score.

- (ii) The candidates must have a minimum two years of full-time work experience in a registered firm/company/ industry/ educational and research institutions/ any Government Departments of Government Autonomous Organisations in the relevant field in which admission is being sought.
- (iii) There will not be any age restriction. However, preference should be given to those who are below 45 years of Age.
- (iv) The mode of selection shall be such that merit is the sole criterion. No capitation fee or donation will be charged for admission.
- (v) A letter from the employer must be furnished stating that the candidate is being sponsored to get admission. The employer should also indicate that the candidates will not be withdrawn midway till the completion of the course.
- (vi) The fee structure for the sponsored candidates should be as decided by the concerned institutions. The fee for the candidate should normally be borne by the sponsoring organisation wherever possible.

Sd/-  
(N. K. Kole)

ANNEXURE - I

GUIDELINES FOR ADMISSION OF NON-SPONSORED CATEGORY  
STUDENTS TO FULL TIME PG COURSE (S)  
(Ref: 10th meeting of EC of the AICTE held on 24.05.98)

Only GATE qualified candidates should be admitted to Full Time PG programmes for Non-sponsored category of students (General & SC/ST). When GATE qualified candidates are not available, admission may be given on merit to those who are not qualified in GATE.

Sd/-  
(N.K. Kole)

## NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE &amp; TECHNOLOGY

No. ACA-1/30/96-97

Dated : 5-3-1997

To

Prof. B. Pakem,  
Vice-Chancellor,  
North Eastern Hill University,  
Post-NEHU Campus,  
Mawkynroh-Umshing,  
Shillong - 793 002 (Meghalaya)

Dear Prof. Pakem,

It was nice meeting you very briefly at Rajbhawan on 20-2-97 during foundation laying ceremony. As briefly mentioned at that time, you will be pleased to note that we are running two inter-disciplinary M.Tech. programmes viz. on Information Technology and Environmental Science & Engineering since August, '96. Those courses are duly approved by AICTE and Ministry of Human Resource Development had also duly accorded its approval to this Institute for starting these two PG Programmes. The courses are running well and a number of GATE qualified students from various states like Assam, Arunachal Pradesh, Tamilnadu, Karnataka etc. are pursuing their courses.

As you may aware that although we have already initiated active steps to get approval of a deemed University status, yet it may take some more time. Our M.Tech. students are already in 2nd semester out of the three semesters duration and by December, 97 the students shall be completing their M.Tech. courses. Accordingly, we are in urgent need to acquire affiliation of some University for PG Programmes.

We are grateful to you for according affiliation to NERIST for UG Programmes for a period of 3-years beyond 1995-96 academic session. In the same spirit and considering the academic career of bright and young students those who are pursuing M.Tech. Programmes in NERIST, I would request you to kindly do the needful to accord NEHU affiliation for PG Programmes of NERIST for a minimum period of two years, if required, as a very special case. I understand your Academic Council meeting is also scheduled to take place in near future.

With best regards and looking forward to hear soon.

Yours faithfully,

Sd/- K.B. Misra  
Director.

<sup>A</sup>  
Annexure - IV

NORTH EASTERN HILL UNIVERSITY

No. CDC/A.91/95-96/497

June 4, 1997

To

The Registrar,  
NERIST,  
Nirjuli - 791109,  
Itanagar,  
Arunachal Pradesh.

Sir,

In continuation of our earlier letter (vide CDC/4-91/95-96-3233 dated 19-4-97), I am directed to inform you on P.G. affiliation to your Institute the decision of the 55th Academic Council held on 2nd & 3rd May, 1997 as follows:

" The Council considered the request of NERIST for affiliation of Post Graduate Programme and Resolved that since the University does not have any provision for affiliating P.G. course in colleges the request of NERIST may be regretted".

Thanking you.

Yours faithfully,

Sd/- B.K. Dev Sarma,  
Director,  
College Development Council

## Annexure V

S.K.MISRA  
 ADDL APPRENTICESHIP ADVISER  
 PHONE 3382498

MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
 DEPARTMENT OF EDUCATION  
 GOVERNMENT OF INDIA  
 NEW DELHI - 110 001

D.O.NO.F.27-11/96-TS(IV)

April 01, 1997

Dear Prof. Mishra,

Kindly refer to your letter No. <sup>A</sup>ca-1/30/96, dated 21st February, 1997. I am to convey that Hon'ble Human Resource Development Minister has given his kind approval for affiliation of NERIST with NEHU in accordance with Section 6 (3) of Arunachal Pradesh University Act for M.Tech. programmes in (a) Information Technology, and, (b) Environmental Science & Engineering. By endorsing a copy of the letter to NEHU, we are requesting for necessary action in the matter. Please follow up.

With regards,

Yours sincerely,

Sd/- S.K.MISRA

Prof. K.B. Misra,  
 Director,  
 North Eastern Regional Institute of Science & Technology,  
 Nirjuli - 791109 (Itanagar),  
 Arunachal Pradesh

Copy to Prof. B. Pakem, Vice-Chancellor, North Eastern Hill University, P.O. NEHU Campus, Mawkyntoh, Umshing, Shillong-793002 (Meghalaya)

Sd/- S.K.MISRA

## Annexure VI

## NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE &amp; TECHNOLOGY

Prof.K.B.Misra  
Director

Nirjuli-791109(Itanagar)  
Arunachal Pradesh

Ref No.ACAD-1/56/9  
dated; 01.07.9

Dear Prof.Singh,

As you would kindly recall, I had a meeting with you during my last visit to REC Julandhar and had discussion about exploring the possibility of affiliation of NERIST with Punjab Technical University along the lines of SLIET.

I had been away from station and in my absence Registrar, NERIST has written you a letter (copy enclosed) request for formal application to enable this Institute to submit request for affiliation. I shall be grateful if your early replies sent to us.

This Institute was the first of its kind with module concept of education when it was originally set up in 1985 the Institute had the fortune of being inaugurated by the President of India, Shri Giani Zail Singh. Actually SLIET later on set up on the same pattern.

The Institute is at present offering the following certificate, diploma and degree courses:-

1. Six post-metric two year Certificate Courses in Engineering/technology stream as well as a certificate course in Forestry (Applied Science Stream)
2. Six post 10 + 2 qualification two-year Diploma Modules in engineering/technology.
3. Seven two-year Degree Modules after NERIST Diploma or after a three year polytechnic diploma provision for bridge courses in Engineering/Technology and a 4-year B.Sc.(Forestry)Degree course after certificate module.
4. Two M.Tech. courses.

Besides the above, the Institute also intends to .... some more M.Tech courses in Technology and Applied Science during 1998.

I may add that while NERIST is remotily located and is far away from Punjab, it is offering this unique modular courses similar to the one being offered by Longowal Institute of Engineering and Technology. We naturally would like to expect a maximum functional autonomy due to the reasons of distance and communications. The details can be worked out through personal discussions. For this purpose I intend to depute either the Registrar or Shri S.P.Sharma, Project Officer who has been an old hand at NERIST and was Deputy Registrar(Acad) before he took over as Project Officer.

I take this opportunity to send herewith a copy of Information Brochure highlighting the activities of NERIST and the latest list of faculty members. Has,SLIET finally got affiliated to the Punjab Technical University as was being said at that time.

With best regards  
Prof.Anup Singh,  
Vice-Chancellor,Punjab Technical University,  
REC Campus,Julandhar, Punjab.

Yours sincerely  
Sd/- K.B.Misra

PUNJAB TECHNICAL UNIVERSITY, JALANDHAR.

P.G. R.E.C. JA:AMDJAR -144011.

Phone : 0181 - 290078 Fax : 0181 - 290079

Fef. No. 03. 01.35 . 01

Dated 15/7/97.

To,

The Director,  
North Eastern Regional,  
Institute of Science & Technology  
Nirjuli-791109 (Itanagar)  
Arunachal Pradesh

Sub: Affiliation of NERIST Courses with Punjab Technical University.

Sir,

I am directed to refer to Your D.O. DIR/03/97/1695 dated 7th July, 1997 addressed to the Vice-Chancellor of this University.

Prof. N. Upadhyay, Registrar of your Institution accompanied by Mr. S.P. Sharma, Project Officer visited this University on 15.07.97. The proposal for affiliating M.Tech Programme of your Institute with this University was discussed in details. In principle, the proposal seems to be agreeable. You are requested to kindly furnish the following documents/information to enable this University to process the matter :-

- 1) A draft for Rs. 10,000/- in favour of the Registrar, Punjab Technical University, as processing fee:
- 2) Copies of the Inspection Reports of AICTE/MHRD

The Inspection Team will be deputed on receipt of this information and the TA/DA of the inspection team will have to be borne by your institute.

Yours faithfully,

Sd/-

(K.K.Dhir)  
Registrar

## Annexure - VIII

PUNJAB TECHNICAL UNIVERSITY

03.01.35

07/02/1998

Mr. N. Upadhyay  
Registrar,  
NERIST, Itanagar  
Nirjuli-791 109  
Arunachal Pradesh

This is with reference to your application for affiliation of your Institute with Punjab Technical University, Jalandhar. The Inspection Team visited you from 1st-3rd of November, 1997. The Inspection Team has recommended affiliation subject to certain conditions. The matter would be placed before the Board of Governors in its next meeting and the decision taken would be conveyed to you immediately there after.

Sd/- K.K. Dhir  
Registrar.

Annexure - IX

PUNJAB TECHNICAL UNIVERSITY

Ref No. 03.01.356

Dt. 06/05/98

Prof. N. Upadhyay,  
Registrar  
North Eastern Regional Institute of  
Science & Technology  
Nirjuli - 791 109  
Arunachal Pradesh

Subject: Grant of Affiliation

Sir,

Kindly refer to your letter No. ACAD-1/97/97 dated  
21.04.1998 on the above subject.

It may not be possible to grant affiliation  
from 1997 session. However, the proposal to grant affiliation  
from the 1998 session is under consideration and you will be  
intimated in the near future.

Yours faithfully,

Sd/- K.K. Dhir  
Registrar

Copy for Prof. D.P. Agrawal, J.E.A(T),  
Department of Education, MHRD/

Ms. Madhu Arora, Dy. Secy.(T).  
Department of Education, MHRD

## Annexure - X

MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
DEPARTMENT OF EDUCATION  
GOVERNMENT OF INDIA  
NEW DELHI-110 001.

M.C.SATYAWADI  
ADDITIONAL SECRETARY  
TELE: 3383202

DO NO.27-11/97-TS.IV

October 13, 1998

Dear Shri Rattan,

The North Eastern Regional Institute of Science and Technology (NERIST), Itanagar had submitted a proposal for affiliation of two M.Tech. Programmes on Environmental Science Engineering and Information Technology. These programmes were started in 1996 with the due approval of this Ministry and .... The said proposal has been made in the light of provision ..... in the Punjab Technical University (PTU) Act, ..... affiliation of Institutions outside Punjab also.

2. I am informed that an Inspection Team of the University visited NERIST on 1-3 December, 1997 and examined the courses, syllabi, rules and regulations, including the system of evaluation and examination followed for the 1st and 2nd batch of M.Tech. programmes as well as infrastructural facilities available in the Institute. Subsequent to their visit, the inspection team has reportedly recommended the affiliation of the aforesaid courses.

3. I would appreciate if you could consider, subject to your norms, grant of affiliation to NERIST for its M.Tech. programmes.

With regards,

Yours sincerely,

Sd/- M.C.SATYAWADI

Shri N.S Rattan,  
Principal Secretary,  
Deptt. of Technical Education &  
Industrial Training,  
Govt. of Punjab,  
Mini Secretariat,  
Sector - 9,  
Chandigarh - 160 001.

## Annexure - XI

## NORTH EASTERN REGIONAL INSTITUTE OF SCIENCE &amp; TECHNOLOGY

Prof. U.K. Sarma,  
Acting Director

Nirjuli -791 109 Itanagar  
Arunachal Pradesh

Acad-1/140/95

September 23, 1998

The Vice-Chancellor,  
North Eastern Hill University  
Shillong, Meghalaya.

Sub:- Recognition of NERIST Faculty from the Department of Humanities and Social Sciences for guiding Ph.D research.

Sir,

The Institute is affiliated to NEHU for all the under-graduatematters. NEHU has also recognised this Institute as a research centre for conducting Ph.D research, and institute's ..... from the departments of Physical Science, Chemistry, Physics and Mathematics and Life Sciences (Forestry ..... Botany etc, has been recognised as Ph.D ..... connection NEHU's letter No.6-4, Ex-AR/95-96/5131 dated ----- 96 may please be referred to. The Academic Council of the University had approved the same and adopted a resolution ..... 88:95:5:3:(i) in this regard.

The Department of Humanities and Social Sciences of this Institute has faculty members in the disciplines of English, Economics, Sociology, Psychology, Management etc. and they are well qualified to guide the Ph.D scholars. It is, therefore, requested that the faculty of this Department may also please be formally recognised by the University, so that they can act as guides or co-guides for Ph.D. scholars. A list of the faculty members in the Department, with brief details of their qualifications, research and teaching experience etc. is enclosed.

Yours faithfully,

Sd/- U.K. Sarma

Enclosure: As above.

MINISTRY OF HUMAN RESOURCE DEVELOPMENT  
DEPARTMENT OF EDUCATION  
GOVERNMENT OF INDIA  
NEW DELHI - 110 001

D.P. Agrawal  
Joint Educational Adviser(T)

D.O.No.F.27-11/96/TS.IV

26th June, 1998.

Dear Prof. Pakem,

I would like to invite your kind attention to the request made by North Eastern Regional Institute of Science & Technology (NERIST), Itanagar to North Eastern Hill University (NEHU) for affiliation of its Post Graduate courses.

2. NERIST is a 100% centrally funded institute which was established in 1986 to cater to the technical manpower requirements of the North Eastern States. The institute is running unconventional, modular academic programmes through certificate, diploma and degree courses. The under graduate programme of the institute is affiliated to NEHU.

3. When the proposal for the development of the institute during the Eighth Plan was approved by the Central Govt., it was envisaged that the institute would introduce Post Graduate courses in phased manner. The institute has accordingly started the P.G. Courses in Environmental Sciences & Engineering and Information Technology. The first batch was admitted in October, 1996 and passed out in December, 1997 while the second batch is expected to pass out in December this year.

4. Since NERIST is affiliated to NEHU for the graduate programme they also approached the University for affiliation for the Post-Graduate programmes. However NEHU did not agree for the same. On refusal by NEHU for the affiliation, NERIST had approached Punjab Technical University who had responded very positively in the beginning. Meanwhile the institute started P.G. courses in information Technology and Environmental Sciences and Engineering with due approval of MHRD and AICTE hoping that the affiliation resolved soon. However PTU has also now shown its inability to grant the affiliation.

5. NERIST authorities are in serious difficulty because the P.G. students who have passed in 1997 cannot be granted degrees unless the programme is affiliated to some universities.

I therefore seek your valuable assistance and intervention to tide over the present crisis. May I request you to kindly reexamine the issue of affiliation of P.G. programmes at NERIST to North-Eastern Hill University. This would ensure that the career of a large number of students who had passed out or have been enrolled in NERIST in P.G. courses does not get affected. Also with support from NEHU, NERIST can look ahead and work for introducing more additional post-graduate programmes for the development of science & Technology in the North Eastern region.

With regards,

Yours sincerely

Prof. B. Pakem  
Vice-Chancellor,  
North Eastern Hill University  
NEHU.

( D.P. Agrawal)

Sd/-

Copy to : Director, NERIST, Itanagar

( D.P. Agrawal)  
JOINT EDUCATIONAL ADVISER(T)

M.C. SATYAWADI  
ADDITIONAL SECRETARY.

Ministry of Human Resource Development  
Department of Education  
Government of India  
NEW- Delhi - 110 001.

D.O. NO.27-11/96-TS-IV

Dated September 10, 1990.

Dear Prof. Pakem,

The North Eastern Regional Institute of Science, and Technology (NERIST), Itanagar, had submitted a proposal to North Eastern Hill University (NEHU) seeking affiliation for two M.Tech Programmes on Environmental Science and Engineering and information Technology. Since then there has been protracted correspondence, between MHRD, NERIST & NEHU, BUT THE issue remains unresolved. In the meanwhile, the first batch of students who passed out in December '97 face uncertainty, as they could not be awarded their degrees, so far.

2. I understand that this proposal was considered by the NEHU Academic Council in its meeting held on 2 and 3rd May, 1998, which resolved that since the University does not have any provision for affiliating post graduate degrees in colleges, the request of NERIST may be regretted.

3. In view of the recognition granted by NEHU to NERIST, for its under-graduate (B.Tech) courses as well as Post-Graduate programmes in Sciences and Applied Sciences, NERIST Expects a similar, positive therefore appreciate if you could take necessary steps to consider affiliation to NERIST for its M.Tech Programmes, at the earliest.

With Regards.

Yours sincerely,

Sd/-

(H.C. Satyawadi)

Prof. B. Pakem,  
Vice-Chancellor,  
North-Eastern Hill University,  
Shillong.

Copy to:  
Registrar, NERIST.

Sd/-

(H.C. Satyawadi)

From:  
M.Tech, Students,  
NERIST, Nirjuli-791109  
Arunachal Pradesh.

Ref: Mt/NERIST/98-01  
Date: 26.10.98, 6 p.m.

To  
The Chairman,  
Board of Management,  
NERIST, Nirjuli- 791109  
Arunachal Pradesh.

Sub: Award of M.Tech, Degree in  
8 (i) Information Technology (IT) and  
(ii) Environmental Science and Engineering (ESE)  
at North Eastern Regional Institute of Science and  
Technology (NERIST) which is under the Ministry of Human  
Resource development, Govt of India.

Respected Sir,

Kindly permit us to state the following few facts regarding the All India Council for Technical Education (AICTE) and MHRD approved M.Tech, Courses which the first batch (1996) has already completed and the second batch (1997) is undergoing presently (likely to complete in December 1998) in NERIST Starting from 1996 and 1997 academic years respectively:

At the time of admission for the M.Tech, course in NERIST, we were registered under North Eastern Hill University (NEHU), Shillong (receipts enclosed), since then we started devoting our time fully, to the M.Tech, Course with a view to brighten our prospects, assuming ourselves to be the students of NERIST under NEHU. Now the NERIST authorities are declining to provide any details of the results (Grade Cards, Provisional Certificates and percentage Conversion certificate) even after successful completion of the course/Semesters. Now we are being told by the authorities that the M.Tech. Courses have not been affiliated to any University and hence the results cannot be declared. This is surprisingly in direct contradiction to the facts we were told at the time of admission by providing the registration slip of NEHU. This has come as a great shock to us causing a lot of mental agony.

It may be pointed out for your information at this stage that the fate of the students of M.Tech. Courses, who have devoted one and a half years of their precious career together with investment of a huge amount of money during this period, hangs in balance because of the pathetic attitude of the authorities concerned. It is causing a lot of mental, physical and economical harassment in running from pillar to post to know the exact status of our degrees. that is our due on the Institute. Further, the present circumstances are demoralising us as we may not be able to apply anywhere for Jobs on the basis of M.Tech. degree. It is directly hampering our prospects of employment. This is nothing short of a gross offence on the part of the authorities concerned who are playing with the future of a large number of educated unemployed, for the upper age limit of getting jobs among many of us would have expired if we are not awarded the degree at the earliest. On the other hand, it is bound to affect the future of those sponsored candidates who are aiming to take benefit of this degree in future advancement of their professional career.

It is, therefore, in the light of above mentioned facts, requested to look into the matter seriously so that we may be able to get our degrees awarded at the earliest possible date.

Expecting a favourable response from your end at the earliest.

With regards,

Yours faithfully,

Sd/-

M. Tech, Students of NERIST

Copy to:-

1. Mr.A.B. Vajpayee, Honourable Prime Minister of India.
2. Dr. Murali Manohar Joshi, Honourable Minister, Human Resource Development, Govt of India, New - Delhi.
3. Mr. Omak Apang, Honourable Minister of State for Tourism, Govt of India, New Delhi.
4. His Excellency, the Governor of Arunachal Pradesh, Chairman, NERIST Society.
5. Honourable Justice, Guwahati High Court, Justice N.S. Singh.
6. Honourable Chief Minister of Arunachal Pradesh.
7. Honourable Chief Minister of Assam.
8. Honourable Chief Minister of Manipur.
9. Honourable Chief Minister of Meghalaya.
10. Honourable Chief Minister of Mizoram.
11. Honourable Chief Minister of Nagaland.
12. Honourable Chief Minister of Tripura.
13. Mr. Nabum Rebia, Member of Parliament, Rajya Sabha.
14. Mr. Tako Dabi, Honourable Minister of Education, Arunachal Pradesh.
15. The Vice-Chancellor, North-Eastern Hill University, Shillong Meghalaya.
16. The Secretary, Technical Education, Ministry of Human Resource Development, Govt of India, New Delhi.
17. The Chairman, All India Council for Technical Education.
18. The Director, NERIST.

Address for correspondence:

- (1) Pankaj Kanti Nath,  
M.Tech. Student (IT)  
Boys' Hostel Block - E/29  
NERIST, P.O. Nirjuli - 791109  
Arunachal Pradesh.
- (2) Tapash Kumar Biswas,  
M.Tech, Student (ESE)  
Boys Hostel Block - E/56  
Nerist, P.O. Nirjuli - 791109  
Arunachal Pradesh.
- (3) Geetali Dutta,  
M.Tech, Student (IT)  
Girls' Hostel Block - G.  
NERIST, P.O. Nirjuli - 791109.  
Arunachal Pradesh.

Yours Sincerely,  
M.Tech. Students of NERIST.

1996 batch students.

1. MS. T. Tuithung (IT)
2. Mr. Joram Lali (IT)
3. Mr. S. Kameshwaran (IT)
4. Mr. D. Srinivas (IT)
5. Mr. Harter Riba (ESE)
6. Ms. Rupa Takkam (ESE)
7. Mr. Tomi Ete (ESE)

1997 batch students.

2. Mr. Abdul Hai (IT) Sd/-Illegible
2. Mr. Pankaj Kanti Nath (IT)
3. Mr. Satyajyoti Borah (IT)
4. Ms. Geetali Dutta (IT)
5. Ms. Jyotsna Das (IT)
6. Mr. Prasanta Mazumder (IT)
7. Mr. Tapash Kumar Biswas (ESE)
8. Mr. Nityanand Singh Maurya
9. Ms. Y. Bidyalaxmi Devi (ESE)
10. Mr. Jayanta Borah (ESE)
11. Mr. Deva Kanta Borah (ESE)
12. Mr. Nayan Kishore Hazarika (ESE)

iii) Inspection Report for permanent affiliation  
to the College of Teacher Education, Aizawl.

The Inspection Team has recommended for permanent affiliation of the College since the College was affiliated to NEHU in 1975. The report is placed as Annexure - A.

The matter is placed before the Council for consideration.

*Handwritten:* 27/8/2022  
Principal  
College of Teacher Education  
Aizawl

NORTH EASTERN HILL UNIVERSITY  
Shillong.

FOR Permanent Affiliation

INSPECTION REPORT

1. Name of the College: COLLEGE OF TEACHER EDUCATION

2.a) Year of affiliation & corresponding

University Notification No.1975 (copy of letter No.CDC/A-34/85-86/864, dated 2.9.1997 attached) Notification No. not available. NEHU Press Notification, dated 17.1.1986 also attached.

b) Level to which affiliation: BA/B.Sc/B.Com/B.Ed.

3. Affiliation/Permission sought to upgrade to or BA/B.Sc/Pass Course is Not applicable

Introduction

Introduce (a new subject) -----

B.Sc.Hons in -----

B.Com.in -----

4. Admission (for the last three years)

Year	B.Ed.
1995	149
1996	148
1997	156
1998	120

5. Result of University examination during the last three years.

<u>EXAMINATION</u>	<u>YEARS</u>	<u>PERCENTAGE PASS</u>
B.Ed.	1995	90.60
	1996	88.51
	1997	84.67

.....

Contd....2

6. In case the College is seeking Honours in a subject(s) for which it has already a Pass Course please give below the No. of students admitted in the last three years and their results for these years in the SUBJECT in which College has applied for Honours.

YEAR	GRADE					% SUCCESS
	A	B	C	D	E	
1997						
1998						
1999						

7. FUND :

(a) Whether the college is having a Reserve Fund in long term Fixed Deposit: The College is a Government College and hence no fixed deposit permitted.

If yes, the details thereof: (Bank, No, of Term Deposit Receipt, etc)

(b) Present working fund: Rs. 30.72 Lakhs  
(Budget allotment for 1998-99)

8. Qualification/Specialization of the teaching staff of the relevant subjects only):

NAME AND DESIGNATION	QUALIFICATION (WITH GRADE & SUBJECT IN P.G.)
----------------------	--

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

A T T A C H E D S E P A R A T E L Y

.....3.....

Attach extra sheets if necessary.

NOTE: THE UNIVERSITY REGULATION STIPULATES THE FOLLOWING  
STAFFING REQUIREMENT.

<u>LEVEL/CLASS</u>	<u>MINIMUM NO. OF TEACHERS IN EACH SUBJECT</u>
a) Degree Non-Laboratory (Pass)	Two in all subjects & 3 in English
b) Degree laboratory (Pass)	Six of whom four should be lects.
c) Degree Non-Laboratory (Pass) + Hons.	Four in all subjects other than English & other Elective Languages in which there should be at least five.
d) Degree laboratory (Pass) + Hons.	Seven of whom six shall be lects.

### 9. LAND AND SITE

a) Whether the college is having permanent building on its own land : No. The college has been allotted a plot of land (0.89 bighes) at Maumual in Aizawl.

b) Area of the college campus - 0.89 Bighes (Document attached)

c) Accommodation (give size):-

1. One room for the Principal	15"x30" (one room)
2. One room for the Vice-Principal	No Vice-Principal
3. One room for the college office	15"x48" (one room)
4. For staff Common room	16"x30" each Adequate/ (Two rooms)
5. Common room for boys and girls	16"x35" (one room)
6. Library with reading room.	30"x40" (one room)
7. Class room	30"x40" (one room) Adequate
	20"x40" (one room) One Store room for equipment)
	16"x30"

10. Worksoad of Teachers : 8 Classes per week per teacher.

11. Library books:

Total Volumes: 14503

Subjectwise break-up (of relavant subjects only):

<u>SUBJECT</u>	<u>NO. OF BOOKS</u>	<u>NO. OF JOURNALS</u>
1. Generalities	1256	<u>&amp; News Papers</u> 12
2. Philosophy & related discipline	875	
3. Religion	231	
4. Social Services	8117	
5. Language	451	
6. Pure Science	598	
7. Technologies	784	
8. The Arts	308	
9. Literature	321	
10. General Geography & History	1562	

Whether the College has a trained Librarian: Yes  
 Mr. Hmingdailova, M.A., B.Ed.; Certificate in Lib.Sc.  
 (LIBRARIAN).  
 Mr. Vanlalruaia, B.A., M.Lib.Sc (LIBRARY ASSISTANT)

12. Laboratory facilities

a) Whether accommodation is adequate or not :

b) No. of shifts the students do their practicals:  
 College proposes to rent two more rooms in adjoining building (16"x35" each) and proposal for that is submitted to the Govt.

13. When was the last Governing Body meeting.

Being Govt. College, there is no governing body.

14. Any other relevant information(s)/point(s)

College students have obtained following merit positions in the B.Ed. examination of NEHU.

- 1994-95 - 1st, 5th and 10th positions.
- 1995-96 - 10th position.
- 1996-97 - 5th & 6th position.

RECOMMENDATIONS

Please make your recommendation without any ambiguity. In case you suggest provisional affiliation for a particular period, please mention the academic year specifically. Please also mention the conditions, if any, to be fulfilled if extension of affiliation is to be considered.

The inspection team visited the college on 27th August 1998 at 12.00 Noon and verified the infrastructure and the other documents which were found to be adequate.

In view of the fact that the college of teacher Education, Aizawl earlier known as Mizoram Institute of Education Aizawl has been affiliated to NEHU since 1975 and since the college has already been allotted land by the Govt. of Mizoram and a sum of Rs.30.25 lakh as first instalment for the construction of building (The plan is attached with the report) has been released by Ministry of HRD, Govt. of India under centrally sponsored scheme of restructuring and Reorganisation of Teacher Education, the inspection team recommends for permanent affiliation of the college to NEHU.

Signature of the members  
 of the Inspection Team.

Sd/-  
 ( DR. H.L. MALSAWMA )  
 Member

Sd/-  
 ( DR. R.S. WANGU )  
 ( CONVENER )

Sd/-  
 ( DR. RAKESH MOHAN )  
 Member

Sd/-  
 ( DR (MS) M. ZAMA )  
 Member

5: 7: 4(1)

(iv) Inspection Report for  
Permanent Affiliation to  
Tiro Singh Memorial College,  
Mairang.

The College was re-inspected for granting Permanent Affiliation by the inspection team constituted by the Academic Council in its 57th meeting. The team has raised the question on the qualifications of the Prinaipal who was appointed in 1981 as Lecturer in the College who scored C Grade (with 3.02) in M.A. Another question raised on the recognition of the Part-time teacher. If the answer to these conditions were satisfactory then the team recommends permanent affiliation to the College otherwise the team recommends prior affiliation for three more years.

The matter placed before the Council for consideration.

PROFORMA FOR INSPECTION REPORT FOR PERMANENT/RENEWAL  
OF AFFILIATION

Annexure-'A'

5:7:4(2)

1. Inspection Team/Report for (to be submitted to the University in duplicate)
1. Name of the College: Tirot Singh Memorial College
2. Its sponsoring authority Tirot Singh Memorial College Educational Society
3. The Level status of the College (whether College is a registered body under societies Registration Act).  
Y E S
4. Whether the College is having a Governing Body duly constituted for the purpose. Y E S , enclosed Annexature -I.  
( Attached a copy of the constitution)
5. Any Special features of the Governing Body constitution which deserve special attention for the grant of affiliation

- 
6. Whether the college is already located at its own sites ? Yes

A-9.

- 
7. The College is seeking affiliation for offering courses in:

Degree General Courses	Honours Courses
<u>Same as in Honours</u>	<u>X-X</u>
	Eco, English, Education, History, Political Sc, Khasi.

8. Students seeking admission:- A-3.

General	Honours
BA. 166.	} Economics, English, 3 & Education 10 } History 2, Political Sc, 10, Khasi 10, } Total 45 in all 3 years.
Bsc. in all 3 classes together B. Com.	

9. Whether the College has adequate number of titles of book and journals for the courses of study mentioned at para above?

No. only few titles are available, though there are multiple copies.

A-4.

- (a) If not, do you recommend that the college should be affiliated pending acquisition of books/journals?

Y E S.

5:7:4(3)

- 10.
- (a) Reading room  List enclosed  
Size.....
- (b) Class rooms.  A- 5.
- (c) Student's Common room.
- (d) Principal's room
- (e) Vice-Principal's Room.
- (f) Teacher's Common Room.
- (g) Library   
Size.....

11. Whether the College has adequate equipment/Laboratory facilities for practical classes? Not applicable

12. Details of teacher:

NAME	Lecturer in spec.	Division Grade	% of Marks	Date of Joining	Research degree	Pub
------	-------------------	----------------	------------	-----------------	-----------------	-----

List enclosed - A-6 The College has 8 sanctioned posts 3, adhoc and the Principal. It has 7 part time teachers 3 Teachers including the Principal do not have norms. The College may be advised to appoint Teachers with norms.

The College has:-

3 teachers in English + (Part time)

2 teachers in Political Science.

2 teachers in Khasi + 2 (Part time)

2 teachers in History + 1 part time.

1 teacher in Economics + 2 (Part time)

and the Principal who is also an MA in Economics.

The College has 7 Part time teachers.

The Principal has a 'C' Grade with 3.02% in Eco, He Joined as a Lecturer in 1981. Therefore it is not clear whether he has norms. Our enquiry with Section Officer C.D.C. Revealed that the Section is not sure whether this fulfills the requirement. They could not show us any regulation of this.

If we take the Part time Teachers into account the Coll College has 4 Teachers each in English and Khasi and 3 teachers each in all other subjects. If the part time Teachers are not recognised. The college will have to appoint necessary staff.

13. Whether the College has adequate No of qualified teachers as per the University regulation in the subject for which affiliation is sought?

Only if we take the Part time teachers into Account.

14. Whether the College is maintaining a fixed term deposit in any bank?

Yes/No.

If yes, the Fixed Deposit Certificate. M.C.A B. Mairang

No. 0. 155. Dated 5.5. 87. (Received on 6.5.96.

For Rs.2,000+00/- DBS A/C No.26 + Mature 6.5.01.  
( 200000) 24.5.03.

in the M.C.B.A Mairang;

(mention the name of the Bank and Branch) ( A-7)

( A-8)

15. Any other observation (s)

Contd Page 4/-

( R.P. Sharma )

(Mourya Sharma)

( B. Mishra )

(A.K. Barua)

( R. Bhattacharjee )

## 16. Recommendation:

Notes: (A) If conditional recommendation is made kindly specify the conditions and the period by which the same are expected to be fulfilled by the college for the Provisional/Extension of Affiliation.

(B) If provisional affiliation is recommended upto a certain period only, this may be mentioned.

This proforma is not for permanent Affiliation. The C.D.C. has no proforma for Permanent affiliation. Discussion with Section Officer, C.D.C. reveals that the Academic Council is still in the process of finalising regulation for Permanent affiliation. The <sup>Director</sup> C.D.C. was out of Station. The Section Officer could not show the regulations which govern Part time Teachers and also Regulation governing norms of qualification for teachers joining in 1981. The Principal who joined in 1981 has C.Grade (3.02%). Since no clarification could be obtained we leave there 2 matters to the affiliation.

- (1) Are Part time teachers recognised?
- (2) Does the Principal meet the required minimum qualification?

There is a marked improvement from the last report so far as land is concerned. College has now registered the Land in its name. If answers to 1) and 2) are Yes, then the College can be permanently affiliated. Other wise it can be provisionally affiliated for 3 more years and asked to appoint regular teachers in place of part time because the college meet the requirement with Part time teachers (7) only

Signature of the members of the  
Inspection team.

Sd/-  
(A.K. Baruah)

Sd/-  
( R.P. Sharma)

Sd/-  
( R. Bhattacharjee)

Sd/-  
(B. Mishra)

Sd/-  
(Mamorama Sharma)

NAME OF THE COLLEGES: TIROT SINGH MEMORIAL COLLEGE : MAIRANG.

Sl No	Name & Designation	Date of joining	Subject taught	Educational Qualification	Division	% of marks beginning High School stage	Year of Passing out Master Degree	Remark
1.	2.	3.	4.	5.	6.	7.	8.	9.
1.	Shri.K. Marwein,Principal	17.7.81	Economics	H.S.L.C. P.U. B.A. M.A.(Eco)	Supplement. II Div. Simple Pass. Grade (c)	45.60% 45.0% 38.0% 3.02%	1981 (M.A)	17.7.81 to 19.9.97 served as lecturer 20.9.97 onward as Principal.
2.	Shri.T.S. Mawkon Lecturer	10.9.91	Pol Sc.	H.S.L.C. P.U. B.A. M.A.(Pol Sc)	III Div. III Div. Simple Pass. Grade 'B'	42.6% 36.0% 43.3% 3.77%	1987 M.A.	Sanctioned Post.
3.	Shri. S.W. Lyngdoh Lecturer	17.7.81	History.	H.S.L.C. P.U. B.A. M.A. History M.Phil " "	III Div. III Div. Simple Pass. II Class. Ist Class.	47.5% 39.5% 42.2% 51.0% Grade A 4.88%	1981 (M.A)	Sanctioned Post.
4.	Shri. S. Syiemlieh, Lecturer	1.9.93	Khasi	H.S.L.C. P.U.C. B.A. B.A(Hons) M.A.	III Div. II Div. P. II Div. II Div.	43.12% 48.88% 41.8% 47.8% 57.13%	1992 (M.A)	Sanctioned Post.

1.	2.	3.	4.	5.	6.	7.	8.	9.
4.	Smt. S. Syim Instructor.	1.9.1993.	Khasi.	B.A.	P.	56.66%		
5.	Shri L.M. Pariat Lecturer.	13.9.91.	English.	CISCE	P.	56.66%	1989 (A)	Sanctioned Post.
				P. U.C.	III Div.	33.5%		
				B.A.	P.	41.5%		
				B.A. (Hons)	II Div.	45.25%		
				M.A. (Eng)	B.	5.43%		
				M. (Phil)	M.Pa.1	52.7%		
6.	Smti. S. Pde Lecturer.	20.8.96.	English.	HSLC	II Div.	55.73%	1996 (M.A.)	Sanctioned Post
				P. U.C.	II Div.	48.11%		
				B.A.	P.	47.16%		
				B.A. (Hons)	II Div.	46.50%		
				M.A. English.	II Div.	52.69%		
7.	Smti Unity Nyilla Banett Lecturer.	1.5.97.	Education.	HSLC	III Div.	45.5%	1996 (M.A.)	Sanctioned Post
				P. U.C.	III Div.	35.2%		
				B.A.	P.	42.25%		
				B.A. (Hons)				
				B. Ed.	Gr. B.	22.75%		
				M.A. (Edu)	II Div.	58.00%		
8.	Smti. L. Chyne Lecturer.	17.6.96.	Khasi.	HSLC	Ist Div.	49.02%	1994 (M.A.)	Sanctioned Post.
				P. U.C.	III Div.	42.04%		
				B.A.	II Div.	45.06%		
				B.A. Hons.	II Div.	53.76%		
				B. Ed.	II Div.	52.14%		
				M.A. (Khasi)	II Div.	66.50% (55.50%)		

1.	2.	3.	4.	5.	6.	7.	8.	9.
9.	Shri. R. Das L Lecturer.	6.6.98.	Economics.	Bose. AHSEC B.A. M.A.	Ist Div. 56.53% II Div. 53% II Class. 53.25% II. Class. 58.94%		1997(M.A)	Sanctioned Post
10.	Shri.K. Najiar Lecturer.	9.3.92.	Pol Sc.	HSLC P.U.C. B.A. B.A.(Hons) M-A.	II Div. 50.37% II Div. 46.88% P. 42.75% II Div. 48.12% II Div. 55.94%		1989 (M.A.)	Adhoc.
				U.G.C. NET.	JRF.Lecturership		30 th June 1996.	
11.	Smti P. Diengch Lecturer.	2.7.93.	History.	HSLC P.U.C. B.A. B.A.(Hons) M.A. M.Phil.	II Div. 60.62% Istdiv. 60.00% II Div. 50.53% II Div. 58.00% II Div. 57.25% on B. 5.85%		1992 (M.A.)	Adhoc.
12.	Smt.D.Suchiang. Lecturer.	8.5.97.	Education.	HSLC P.U.C. B.A. B.A.(Hons) M.A.(Edu)	Ist Div. 60.88% II Div. 45.00% P. 43.00% II Div. 45.25% II.Div. 57.88%.		1994 (M.A.)	Adhoc.

1.	2.	3.	4.	5.	6.	7.	8.	9.
13.	Training Myrthong.	3.7.98.	Economics.	H.S.L.C. P.U.C. B.S.C. M.A. (Eco)	II Div. II Div. II Div. II Div.	50.66% 49.66% 56.62% 55.63%	1997 M.A.	Part time.
14.	Smti. Amanda Sawain.	3.3.93.	English.	H.S.L.C. P.U. B.A. B.A. (Hons) M.A. (Eng)	III Div. II Div. II Div. II Div. II Div.	44.3% 50.6% 50.7% 55.3% 56.13%	1997 (M.A.)	Part time.
15.	"Elma Grase Rapsang.	3.8.98.	History.	H.S.L.C. P.U. B.A. B.A(Hons) M.A. M.Phil.	III Div. III Div. P. II Div. II Div. Grade B.	37.45% 38.66% 37.58% 48.12% 54.25% 5.59%	1994 (M.A.)	Part time.
16.	Smt Lilyiona Nongsiej.	3.8.98.	Khasi.	HSLC. P.U. B.A(Hons) M.A.	III Div. II Div. II Div. II Div.	42.66% 54.25% 50.57% 56.31%.	1996 (M.A.)	Part time.
17.	Smti.Valareen Liza Marbaniang.	3.8.98.	Education.	H.S.D.C. P.U. B.A, B.Ed. M.A.	II Div. II Div. P. Gr. A. I. Div.	50.44% 45.55% 38.08% 51.50% 63.63%	1995 (M.A)	Part time.
18.	Shailynti.	3.8.98.	Economics.	H.S.L.C. P.U. B.A(Pass) B.A.(Hons) M.A.(Eco)	II Div. II " II " II " II "	54.66% 58.66% 50.91% 46.25% 57.06%	1997(M.A.)	Part time.



TRUE COPYBEFORE THE MAGISTRATE FIRST CLASS AT  
SHILLONG.A F F I D A V I T

I, Miss Elizabeth Kharchandy, daughter of Smti. L. Kharchandy, aged about 30 years old, by profession Teacher, resident of Mawsynram Village, East Khasi Hills, Meghalaya, do hereby solemnly affirm and beg to state as follows:-

1. That I am the Secretary of the Governing Body of Mawsynram College, Mawsynram, East Khasi Hills District, Meghalaya.
2. That on 25th July 1998 Governing Body of the Mawsynram College adopted Resolution and as para 9 of the Resolution of the meeting of the General Body of Mawsynram College unanimously resolved to change the name of the Mawsynram College, Mawsynram to Mawsynram Border Area College and in the said meeting further resolved to authorise the Secretary of the Mawsynram Border Area College to inform all concerned for Follow-up Action.
3. That this affidavit is sworn in for the purpose of declaring that I am the Secretary of Mawsynram Border Areas College, Mawsynram and on the 25th July 1998 Governing Body of the College adopted the resolution to change the name of the College from Mawsynram College, Mawsynram to Mawsynram Border Areas College, Mawsynram, for all other intents and purposes.  
That the Statements made herein above are true to the best of my knowledge and belief.

DECLARANT.

Solemnly affirmed and declared before me by the above named Declarant who is identified by Smti. J.B. Kharbhih, Advocate, this the 31st day of July 1998 at Shillong.

Identified by:-

Advocate, Shillong.

Magistrate First Class,  
Shillong.