

# JADAVPUR UNIVERSITY

## ANNUAL REPORT

(FROM 1st APRIL, 1963 TO 31st MARCH, 1964)

**NOT TO BE LENT OUT**



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## ANNUAL REPORT

1963-64

The following is a report on the working of the University during the period from 1. 4. 63 to 31. 3. 64.

### CONDOLENCE

The University condoled the deaths of:

Rai Bahadur N. K. Mitra, Member and sometime Hony. Secretary of the National Council of Education;

Professor Dr. Sisir Kumar Mitra, National Professor and a distinguished Physicist.

Dr. Radha Kumud Mukherjee who was connected with the N.C.E., Bengal from its foundation and rendered to it invaluable service as a member, teacher, donor and as Hem Chandra Basu Mallik Professor of Indian History.

Sri Hari Gopal Ganguly, Reader of Mechanical Engineering and a member of N.C.E., Bengal; and Manindra Kisore Chakravarti, Lecturer in Sanskrit, who was connected with the University for the last seven years.

### POTRAIT OF DR. B. C. ROY

A potrait of Dr. B. C. Roy, was unveiled by the President of the University—Shrimati Padmaja Naidu on 1st July 1963 in the Committee Room of the University on the eightyfirst anniversary of his birth and the first anniversary of his death. The function started with a song of Rabindra-nath. After unveiling the potrait, the President placed some flowers under the Picture. After her, the Rector, teachers and other officers of the University and senior members of the National Council similarly placed flowers as a mark of their respect.

### DONATION

The University received the following donations and endowments during the period under report:

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Messrs Jessop & Co. Ltd., donated a sum of Rs. 10,000/- being second instalment of donation to the Rector's fund.

Sri P. Ghosal, Professor of English, Scottish Church College, Calcutta, offered G. P. Notes of the face value of Rs. 1,500/- for a Silver Medal to be known as "Surendra Nath Ghosal Silver Medal" (Gold rimmed) to be awarded to a student securing highest marks and standing first in Chemistry at the B.Sc. examination of the University. Nikhil Banga Sahid O Desha Sevak Smriti Samity endowed a sum of Rs. 1,000/- for instituting a book prize known as "Nripendra Chandra Memorial Prize" to be awarded to a student of the University, standing first in the M.A. examination in Comparative Literature. The trustees of Maharastra Niwas Trust donated a sum for Rs. 5,000/- for instituting a Gold Medal in the name of Dr. B. C. Roy to be awarded to the student who tops the list in the final Engineering Examination.

Sri Bimalakanta Sarkar donated Rs. 100/- for instituting a Silver Medal named "Aloke Kumar Sarkar Memorial Medal" to be awarded every year out of the income of the fund to the student who is considered to be the best in every respect upon his promotion from the 1st to the 2nd year class of the Engineering Degree Course.

#### ADMINISTRATION

Dr. T. Sen, Rector, was deputed by the University to participate in the Commonwealth Universities Congress held in London in July, 1963. He also visited a few universities in U.K. and West Germany.

Prof. H. C. Guha, Dean of the Faculty of Engineering & Technology, performed the duties of the Rector during the absence on leave of Dr. Sen from 8. 7. 63 to 10. 8. 63.

Dr. T. Sen was re-appointed Rector for a further term of four years from 17. 1. 64 in terms of Sec. 7 of the Act.

Sri P.C.V. Mallik, Registrar, left for United States in March 1964, under the U.S. Educational and Cultural Exchange Programme. He visited a few Cultural and Educational Institutions in the U.S.A. and conferred with colleagues in the field of University Administration. He also visited some universities of the Eastern European countries at the invitation of the Govt. of Czechoslovakia.

Sri Asim Kumar Datta, Principal of the University College

of Arts officiated as Registrar of the University during the absence on leave of Sri P. C. V. Mallik for three months from 23. 3. 64.

Sri D. N. Chakraborty, was re-appointed Controller of Examinations for a further period of one year with effect from 1. 7. 63.

Sri Arabinda Chatterjee was appointed Officer of Placement & Training with effect from 18. 7. 63.

Sri Sukhomoy Majumdar, Assistant Secretary to the Govt. of West Bengal, Finance Department was appointed part-time Financial Adviser for one year with effect from 21. 12. 63.

Sri A. K. Sen Gupta, University Engineer resigned from service with effect from 22. 2. 63.

Sri Sankar Chakraborty was appointed University Engineer with effect from 19. 12. 63.

#### NEW BUILDING

During the period under report construction of a number of new buildings was taken in hand, namely the building for Pharmacy Course, Five year Integrated Course building, Staff Quarters, Students' Hostel, and Research buildings. The construction of the Post-graduate Arts building, Hobby Centre and the Gandhi Bhavan was completed during the period under report.

#### MEMBERS OF THE UNIVERSITY

A list of the Members of the University as on December 24, 1963 is given at Annexure B.

#### TEACHERS

There were 287 teachers (including 18 part-time) on the Staff of the University, of whom 263 were men and 16 women.

There were 129 teachers in the Faculty of Engineering and Technology, 73 in the Faculty of Science and 85 in the Faculty of Arts. The distribution among the different cadres and departments is given in Annexure A, Table IV.

## DEAN OF THE FACULTY OF SCIENCE

Professor Dr. S. N. Mukherjee, D.Sc. was appointed Head of the Department of Chemistry and the Dean of the Faculty of Science for a period of one year with effect from 1st July 1963.

The following teachers were appointed as Professors in the Department as mentioned against each of them:

## FACULTY &amp; ENGINEERING &amp; TECHNOLOGY

Name	Department	Designation	Dt. of appt.
Dr. Sushil Das Gupta	Electrical Engg.	Professor	1. 2. 64
Dr. Ram Narayan Mukherjee	Chemical Engg.	Professor	1. 2. 64

## FACULTY OF ARTS

Sri Kali Krishna Banerjee	Philosophy	Professor	2. 1. 64
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The undermentioned lecturers were appointed as Readers in the department as mentioned against each of them:

Dr. Pranab Kumar Sen	Philosophy	Reader	2. 1. 64
Mrs. Sukumari Bhattacharyya	Sanskrit	Reader	1. 4. 64

## FACULTY OF SCIENCE

Dr. Kanailal Chakraborty	Geological Sciences	Reader	1. 5. 63
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## APPOINTMENT OF NEW TEACHERS

The following teachers were appointed in the different departments during the period under report:

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

Sri Kalyanmoy Ghosh, B.E. (Cal.)	Civil Engg.	Lecturer	8. 7. 63
Sri Bratish Sengupta, B.E. (Cal)	Do	Do	16. 3. 63
Sri Bijon Kumar Gupta, M.Pharm (Andhra) A.I.C.	Pharmacy	Reader	8. 2. 64
Sri Kalyan Kumar Mustafi	Electrical Engg.	Associate Lecturer	16. 9. 63

## FACULTY OF SCIENCE

Sri Ramgopal Bhattacharyya M.Sc. (Cal)	Chemistry	Lecturer	1. 8. 63
Sri Gouri Sankar Singal, M.Sc. (Lucknow)	Do	Do	7. 9. 68
Sm. Leena Acharya, M.Sc. (J.U.)	Do	Do	9. 9. 63
Sri Sabooj Kumar Bhowal, M.Sc. (Cal)	Do	Do	1. 3. 63

Name	Department	Designation	Dt. of appt.
Sm. Leena Rudra, M.Sc. (J.U.)	Chemistry	Lecturer	2. 7. 63
Dr. Kanailal Mallik	Do	Do	4. 1. 63
Sri Prasanta Kumar Bhattacharyya	Do	Do	1. 12. 63
Sri Pradyumna Kumar Banerjee, M.Sc. (J.U.)	Mathematics	Do	14. 8. 63
Sri Dipak Chatterjee, M.Sc. (J.U.)	Physics	Do	1. 10. 63
Sri Jnananda Mukherjee	Do	Do	1. 10. 63
Sri Rangavajula Chalapati Sastri, M.Sc. (Osmania)	Do	Junior Lecturer	1. 8. 63
Sri Gopal Chandra Banerjee	Do	Demonstrator	4. 1. 63

## FACULTY OF ARTS

Sri Pabitra Bhusan Sarkar, M.A. (Cal)	Bengali	Lecturer	1. 8. 63
Dr. Pranabendu Das Gupta	Comparative Literature	Do	20. 11. 63
Dr. Subrathesh Ghosh M.A., D.Phil (Cal)	Economics	Do	2. 1. 64
Sri Sourindranath Bhattacharyya	Do	Do	2. 1. 64
Miss Sati Bhattacharyya	English	Do	2. 9. 63
Dr. Pradip Sarbadhikari, B.Sc. (Econ.) (London) Ph.D.	International Relations		29. 8. 63
Sri Amalendu De, M.A. (Cal)	History	Do	1. 8. 63
Sri Bhabani Prasad Bhattacharyya M.A. (Cal)	Sanskrit	Do	24. 1. 64

Mr. V. Yashin was appointed part-time lecturer in Russian Language for one year with effect from 1. 8. 63.

Father Robert Antonie, S.J., was appointed part-time lecturer in Comparative Literature with effect from 7. 9. 63.

## REAPPOINTMENT AND EXTENSION OF SERVICE OF TEACHERS

## FACULTY OF ARTS

DR. PRITHWISH CHANDRA CHAKRAVARTI Professor & Head of the Dept. of International Relations and Dean, Faculty of Arts.	Service extended upto 30. 6. 64
SRI GANESH CHARAN BASU, Professor & Head of the Dept. of Bengali.	Service extended upto 30. 6. 64
DR. BIMAL KANTI MAJUMDAR, Lecturer in History	Re-appointed for one year with effect from 1. 7. 63
SRI NARENDRA NATH BHATTACHARYYA, Lecturer in Comparative Literature	Re-appointed for a further period of one year with effect from 1. 7. 63
MR. H. M. WILLIAMS Reader of English	Re-appointed for a further period of two years with effect from 29. 8. 63

## FACULTY OF SCIENCE

SRI PRAFULLA CHANDRA DUTTA,  
Reader of Geological Sciences

Re-appointed from 1. 7. 63 to  
30. 10. 63. Further extension  
granted upto 30th June, 1964.

SRI SAROJ BANDHU SANYAL,  
Reader in Physics

Re-appointed upto 30. 6. 64.

## FACULTY OF ENGINEERING &amp; TECHNOLOGY

SRI H. C. GUHA,  
Professor & Head of the Deptt. of Electrical  
Engineering and Dean, Faculty of Engineering  
& Technology.

Service extended upto 30. 6. 64.

SRI SAILESH CHANDRA DAS GUPTA,  
Professor of Electrical Engineering.

Service extended upto 30. 6. 64.

## RESIGNATION

The undermentioned teachers resigned from service with effect from the date as mentioned against each of their names:

Name	Department	Designation	Dt. of appt.
Dr. Arabinda Nath Bose	Food Technology	Professor	20. 5. 63
Sri Satyaranjan Ghosal	Chemical Engg.	Lecturer	21. 9. 63
Dr. Niras Kumar Bose	Chemical Engg.	Reader	7. 11. 63
Sri Asim Ranjan Sen	Mathematics	Lecturer	8. 9. 63
Dr. Apurba Kumar Sen Gupta	Chemistry	Lecturer	5. 11. 63
Dr. Jadu Gopal Dutta	Chemistry	Reader	10. 3. 64
Sm. Sipra Das Gupta	Economics	Lecturer	30. 6. 63
Sri Kanan Kumar Majumdar	Economics	Lecturer	2. 7. 63
Prof. Buddhadeb Bose	Com. Literature	Professor	20. 8. 63

The undermentioned teachers added to their qualifications by obtaining higher degrees as indicated against each of their names during the period under report:

Name	Designation	Additional qualification
Sri Bireswar Prasad Ghosh	Reader of Mechanical Engineering	M.M.E. Jadavpur University
Sri Abani Mohan Das	Lecturer in Mechanical Engineering	—Do—
Sri Ajit Kumar Pal	—Do—	—Do—
Sri Krishna Nath Chakraborty	—Do—	—Do—
Sri Sujoy Kumar Bose	Lecturer in Electrical Engineering	M.E.E. Jadavpur University
Sri Pradip Kumar Bhattacharyya	—Do—	—Do—
Sri Prasanta Kumar Mukherjee	—Do—	—Do—
Sri Sunil Ranjan Banerjee	—Do—	—Do—
Sri Sanjoy Kumar Bose	—Do—	—Do—
Sri Girija Bhusan Chakraborty	Reader of Civil Engineering	M.C.E. Jadavpur University

Name	Designation	Added Qualification
Sri Mrinmoy Das	Lecturer in Civil Engineering	M.C.E. Jadavpur University
Sri Ratan Kumar Das Gupta	—Do—	—Do—
Dr. Anil Ranjan Saha	Reader of Tele-Communication Engineering	D.Phil Calcutta University
Dr. Amalendu Das	Lecturer in Chemistry	—Do—
Dr. Sunil Kumar Gangopadhyay	—Do—	—Do—
Dr. Ashok Kumar Bose	—Do—	—Do—
Dr. Bimanesh Sur	—Do—	D.Phil Jadavpur University
Dr. Pramatha Nath Hore	Lecturer in Geological Science	Ph.D. London University
Dr. Supriya Roy	—Do—	D.Sc. Calcutta University
Dr. Sourindra Nath Mitra	Lecturer in English	D. Phil Calcutta University
Dr. Bishnupada Sinha	—Do—	Ph.D. Jadavpur University
Sm. Chinmoyee Chatterjee	Lecturer in Sanskrit	—Do—
Dr. Sachindra Nath Ganguly	Lecturer in Philosophy	Ph.D. Bristol University

The undermentioned staff of the University passed different examination of the Calcutta University indicated against each of their names during the period under report:

Sri Gour Chatterjee	Junior Assistant	M.Com.
Sri Sudhamoy Acharji	—Do—	Special Honours
Sm. Dipu Roy Chowdhury	Library Assistant	Special Honours
Sm. Asha Chowdhury	—Do—	B.A.
Sm. Sulekha Gupta	—Do—	B.A.
Sri Prasanta Chakraborty	Junior Assistant	B.A.
Sri Matilal Chakraborty	—Do—	B.A.
Sri Bidhu Bhusan Bhattacharyya	Stenographer	I.A.
Sri Pravat Kumar Pramanik	—Do—	I.A.
Sri Rathindra Mohan Kar	Junior Assistant	I.A.
Sri Santimoy Das	Typist	I.A.
Sri Asis Kumar Bose	—Do—	Pre-University
Sri Subandhu Bhadra	Junior Assistant	Pre-University
Sri Pabitr Lal Ganguly	—Do—	Pre-University

## STUDY LEAVE

The undermentioned teachers were granted study leave or an extension thereof during the period under report:

## FACULTY OF ENGINEERING

Sri Niloy Chaudhury, Reader of Civil Engineering, was granted an extension of study leave on half pay for five months upto 28. 2. 64, as a special case, to enable him to complete his work for the Ph. D. Degree at the University of Illinois.

Sri Ajit Kumar Paul, Lecturer in Mechanical Engineering, was granted study leave for one year (six months with full pay and another six months with half pay) for higher studies on Metal cutting at the Institut Fur Werkzeugmaschinen, Dresden.

Sri Sunit Kumar Mukherjee, Lecturer in Food Technology, was granted study leave for one year (six months with full pay and another six months with half pay) with effect from 19. 7. 63 for higher studies on Food Nutrition at the Cornell University.

Sri Anil Ranjan Saha, Reader of Electrical Engineering, was granted leave on deputation with full pay for one year for training in Japan under the Colombo Plan.

Sri Bijan Kumar Roy, Reader of Mechanical Engineering, was granted leave on his Post for one year with effect from 16. 11. 63 to enable him to accept the Post of Sr. Scientific Officer, Grade I at the Mechanical Engineering Research Institute, Durgapur.

Dr. Tarun Kumar Ghose, officiating Professor of Food Technology, was granted leave on deputation for a period of three weeks to enable him to participate in the 2nd International Conference on Water Pollution Research held in Tokyo. Dr. Ram Narayan Mukherjee, Reader of Chemical Engineering, was granted leave on deputation for a period of one year with half pay for training in Rutgers University.

## FACULTY OF SCIENCE

Dr. Ashit Kumar Roy, Lecturer in Chemistry, was granted an extension of study leave without pay for one year from 18. 7. 63 to enable him to

complete his Post-Doctoral Research Associateship at the Arizona University, U.S.A.

Sri Kiron Kumar Kundu, Lecturer in Physical Chemistry, was granted study leave for one year with effect from 29. 8. 63 for Post-Doctoral Research Work on Electro-Chemistry at the Pennsylvania University.

Sri Priya Sankar Chakraborty, Lecturer in Geological Sciences, was granted study leave for one year with effect from 28. 9. 63. to enable him to accept the Alexander-Von Humboldt Scholarship of Gollingham for research work on Advanced Mineralogy.

Dr. Amalendu Banerjee, Reader of Organic Chemistry, was granted an extension of study leave for one year from 4. 12. 63 (six months with full pay and another six months with half pay) to enable him to complete his Post-Doctoral work at the Tufts University, U.S.A.

Sri Biswanath Chakraborty, Lecturer in Mathematics, was granted an extension of study leave (six months with half pay and another six months without pay) to enable him to avail of a Scholarship offered by the Govt. of U.S.S.R. for higher studies in Mathematics.

Dr. K. C. Roy, Lecturer in Physical Chemistry, was granted an extension of study leave for another year (six months with half pay and another six months without pay) with effect from 13. 12. 63, for completing his Post Doctoral Research work in M.I.T.

Dr. Amalendu Chowdhury, Lecturer in Physics, was granted study leave for one year without pay with effect from 4. 1. 64 to avail of a Scholarship offered by the Govt. of France.

Dr. Biswanath Bhattacharyya, Reader of Physics, was granted study leave for one year (six months with full pay and another six months with half pay) to avail of the post of a Research Physicist in the Johns Hopkins University, U.S.A.

Dr. Miss K. K. Rohatgi, Reader of Physical Chemistry, was granted leave for one year with lien on her post, to enable her to join the post of Assistant Professor of Chemistry in the I.I.T., Kharagpur.

Dr. Shyamadas Chatterjee, Professor & Head of the Department of Physics, was granted leave for a period of three months from September

1963 for visiting the Technical University of Munich as a visiting Professor at the invitation of Technischen Hochschule, Munich.

Dr. Siva Sundar Deb, Head of the Department of Geological Sciences, was granted leave on deputation for a period of three weeks from September 1963 to participate in an International Symposium on Post Magnetic Ore Deposits in Prague and also to preside over a section of the Symposium. He visited some laboratories of Europe to study the latest development and methods of research.

Dr. S. C. Ganguly, Reader of Physics, was granted leave on deputation participating at the Fourth International Photo Biology Congress held at Oxford.

#### FACULTY OF ARTS

Dr. Ambika Ghosh, Reader of Economics, was granted an extension of study leave upto 8. 9. 63 to enable him to complete the tenure of Fellowship at the Rockefeller Foundation.

Sri Ajit Kumar Das Gupta, Lecturer in Economics, was granted an extension of study leave for a period of one year from 1. 9. 63 to enable him to complete his research work at the Cambridge University.

Dr. Gopika Mohan Bhattacharyya, Reader of Sanskrit, was granted study leave for one year with effect from 10. 10. 63 (with full pay for six months and with half pay for another six months) to avail of a Research Scholarship offered by the Govt. of Austria.

The undermentioned teachers were granted leave on deputation lien or an extension thereof during the period under report:

Sri Amitavha Mukherjee, Lecturer in History, was granted leave for a period of one year from 20. 8. 63, with lien on his post, to enable him to join the Post of Lecturer in History at the Rabindra Bharati University.

Dr. Tarun Chandra Bose, Lecturer in International Relations, was granted leave on deputation from February to August 1964 for training in American History at the University of Missouri, U.S.A.

Dr. Pratul Chandra Gupta, Professor & Head of the Department of History, was granted leave on deputation from 27. 10. 63 to 29. 11. 63 for

delivering a course of lectures on Indian History in the Charles University, Prague and in the University of Czechoslovakia.

#### OTHER ACTIVITIES OF TEACHERS

##### FACULTY OF ARTS

Dr. Prithwish Chandra Chakravarti, Head of the Department of International Relations and the Dean of the Faculty of Arts, was elected President of the Fulbright Association, Calcutta. He also represented the University at the inauguration ceremony of the American Studies Research Centre.

Dr. Pratul Chandra Gupta, Professor and Head of the Department of History, was re-elected Honorary Secretary of the Asiatic Society. He was also re-elected to the Executive Committee of the Indian History Congress.

Dr. Jagadish Narayan Sarkar, Reader of History, was elected a member of the Executive Committee of the Indian History Congress.

Dr. Sisir Chatterjee, Reader and Dr. Sourindra Nath Mitra, Lecturer in English, attended the 14th Annual Session of the All India English Teachers' Conference held at Jaipur. Dr. Chatterjee also attended a seminar on Shakespeare held at Delhi under the auspices of the British Council. Sri Jagannath Chakravorty, Lecturer in English, was the other participant at the Seminar.

##### FACULTY OF SCIENCE

Professor Dr. Siva Sundar Deb, Head of the Department of Geological Sciences and Sri Bankim Mukherjee, Reader of Geology, participated in the Summer School on Himalayan Geology held at Simla, at the invitation of the Ministry of Scientific Research and Cultural Affairs.

Prof. Dr. Siva Sundar Deb was elected a member of the International Commission on Ore Genesis, Prague, Czechoslovakia.

##### FACULTY OF ENGINEERING

Dr. T. K. Ghose, Offg. Professor of Food Technology, was nominated a member of the Scientific Advisory Committee of the Central Food & Technological Research Institute, Mysore for a period of three years.

Dr. A. P. Sinha, Reader and Dr. D. N. Ghosh, Lecturer in Chemical Engineering, participated at the International Symposium on Mass Transfer operations held at Banaras during the 15th Annual Session of the Indian Institute of Chemical Engineers, and presented papers.

Professor D. K. Dutt, Offg. Professor in Charge of Chemical Engineering, along with other teachers of the Department, Dr. B. C. Chanda, Dr. K. C. Roy Chowdhury, Sri P. C. Deb and Sri A. Chatterjee attended the 16th Annual and Technical Paper Session of the Indian Institute of Chemical Engineers held at the I.I.T., Kharagpur and presented research papers. Prof. Dutt and Sri P. C. Deb also attended a Symposium on "Fluidization" held at I.I.T. Kharagpur under the auspices of the Chemical Research Committee of the C.S.I.R. and presented research papers.

#### RECOGNITION OF DEGREES AND EXAMINATIONS OF OTHER UNIVERSITIES AND BODIES

1. B.A. (Pass) examination of the Kurukshetra University was recognised by this University as equivalent of the B.A. (Pass) examination of Calcutta University.
2. B.A. and B.Sc. (Pass) examinations of the Dacca University were recognised by this University as equivalent of the B.A. (Pass) and B.Sc. (Pass) examinations of the Calcutta University.
3. B.A. (Hons), B.Sc. (Hons) and M.A., M.Sc. examinations of the Dacca University were recognised as equivalent of the corresponding examinations of the University.
4. Diploma examination of Rural Institute, established by the Govt. of India in various states which are conducting 3 year Diploma Course in Civil and Research Engineering was considered by the University as equivalent of the Diploma examination of the State Council of Technical Education, West Bengal.
5. Certificate and Diploma Courses in French, Russian and German languages conducted by the University of Rajasthan, were recognised by this University as equivalent of its Diploma and Certificate Courses.
6. Higher Secondary, one year Course examination, conducted by the National Board of Secondary Education, New Delhi, was recognised by the University as equivalent to its Preparatory Examination.

7. Diploma Course in Pharmacy organised by the Ministry of Health, Govt. of India, was recognised by this University for the purpose of admission to the Bachelor of Pharmacy Course.
8. The General Certificate of Education Examination of the University of London with two subjects at advance level and three subjects at ordinary level or three subjects at advanced level and one subject at ordinary level was recognised by this University for the purpose of admission to its under-graduate courses.
9. Pre-University Examination in Arts and Science, B.A. and B.Sc. Examination (3 year Degree Course) and the Integrated professional Examination in Technology of Banaras Hindu University were recognised by this University as equivalent to its corresponding examinations.
10. B.A. and B.Sc. Examinations of Rajshahi University were recognised by the University as equivalent to its B.A. and B.Sc. Examinations.
11. The All India Higher Secondary Examination conducted by the Central Board of Secondary Education, Delhi was recognised by this University as equivalent of the Higher Secondary Examination of West Bengal.
12. B.A. (Hons.), B.Sc. (Hons.), B.E. (Civil, Mechanical, and Electrical Engineering), Pre-University in Arts and Science, M.A. and M.Sc. examinations of Karnatak University were recognised by this University as equivalent to its corresponding Examinations.
13. The Examination (Grand Stufe I), of the German Cultural Institute, Max Muller Bhavan was recognised by this University as equivalent to the Certificate Course in German language of this University.
14. The University decided to consider the cases of students who passed Bharati Examination in the First or Second Division with English Literature and one of the following optional subjects, viz., Sanskrit, Economics, History, Political Science and Philosophy—on individual merit of each case—after test and interview for the purposes of admission to any of the Post-graduate Courses of this University.
15. The University resolved that :
  - (i) The Anglo Indian Secondary School Certificate Examination be treated as at par with the School Final Examination of the Secondary Education, West Bengal, and

- (ii) The First year examinations in Arts and Science of the Bombay University be treated as at par with the Preparatory Examination of this University.

#### VISITING PROFESSOR FOR AMERICAN STUDIES

Dr. Louis Cr. Geiger, Chairman of the Department of History, at Colorado College joined the University as the visiting Professor for American Studies in August 1963 for the session 1963-64.

#### COURSES OF STUDY

The University instituted a four year Degree Course in Pharmacy from the session 1963-64. The one year's Master's Degree Course in each of the five different branches of Engineering—Mechanical, Electrical, Civil, Chemical and Tele-communication Engineering was made a two years' Course. The M.Tech. Course in Food Technology was also made a two years' Course. A detailed Syllabus for three year Degree Course in Home Sciences was drawn up and adopted. The University also accepted in principle Schemes for the institution of a three year Degree Course in Nursing and B.Sc. Course in Accountancy. A scheme for the institution of a Course in Applied Economics and Demography was approved by the University. The University also approved a scheme for establishing a Centre for the study of foreign languages—Asian and European—by amalgamating Prachya Vidhya Vihara (Institute of Oriental Languages and Culture) with the language Courses already being run by the University.

#### STUDENTS' ENROLEMENT

The number of students in the University rose from 3587 to 3984 (3326 boys and 658 girls). The Facultywise and classwise distribution of students are given in Annexure A [Table 1, 1 (b), and 1(c)].

There were 24 students from foreign countries.

The Facultywise distribution of Foreign Students is given in Annexure A [Table 1 (D)].

#### ADMISSION

During the period under report a large number of applications were received for admission into the different courses of study. Details with regard to the courses and number of applications received are given in Annexure A [Table 1 (a)].

#### EXAMINATION

An oral examination carrying 100 marks was introduced for each of the five year Integrated Courses in Engineering.

During the period under report the system of holding periodical examination was introduced for students of B.Sc. classes. It was decided that two such examinations will be held every year and the marks awarded on the basis of practical work done by the students will also be reckoned in the results of B.Sc. final examinations.

The number of students who appeared and passed in the different examinations of the University is shown in the break-up figure in Annexure A [Table II].

#### DOCTORATE DEGREES

In all 46 students were admitted to the Doctorate Degrees in the different faculties during the period under report.

The number of candidates registered for the Ph.D. Degree in different faculties is given in Annexure A [Table III].

The number of candidates admitted to the Degree of Doctor of Philosophy in Science and Doctor of Philosophy in Arts is given in Annexure A [Table III (a)] of this report.

#### RESEARCH SCHEMES AND PROJECTS

During the period under report a number of research schemes were sanctioned by the Council of Scientific & Industrial Research, Indian Council of Agricultural Research, Indian Council of Medical Research, Ministry of Food & Agriculture, Govt. of India, Department of Agriculture of the United States, University Grants Commission and the State Government. Several important research schemes were undertaken by the Division of Food Technology and Biochemical Engineering. A new mechanised and continuous process in Parboiling of rice has been developed by the Division and a patent has also been taken out.

The Ministry of Food and Agriculture agreed to finance a project for a semi-commercial trial of the Process in a Rice-Mill in West Bengal. The C.S.I.R. has also agreed to set up a Regional Research Station of the Central Food Technological Research Institute in this Division. This will

be the first full fledged station to deal with technological problems of fruit and vegetable preservation in Eastern India.

A list of research papers published by the different departments is given in Annexure 'C'.

#### TECHNICAL TEACHERS' TRAINING PROGRAMME

Due to acute shortage of qualified teachers in technical institutions, the Govt. of India initiated a programme of training of teachers for technical institutions at degree level in certain selected institutions. This University has been chosen as one of the institutions for imparting training under the programme.

During the year under review, 13 candidates were selected for training at the University in the following departments:

Civil Engineering—	3
Mechanical Engineering—	2
Electrical Engineering—	5
Chemical Engineering—	3
Total..	13

#### VIVEKANANDA CENTENARY

A meeting was held on the occasion of the birth centenary of Swami Vivekananda. The meeting was presided over by Swami Sambudhananda. The principal speakers were Dr. V.K.R.V. Rao, Member, Planning Commission, and Dr. T. Sen, Rector. In commemoration of the birth centenary of Swami Vivekananda, the auditorium hall in the Postgraduate Arts building was named "Swami Vivekananda Hall".

#### SEMINAR

As part of the UNESCO Major Project on mutual appreciation of Eastern Western Cultural Values, a Seminar on 'Traditional Values in Modern Life in India and the United States', was held at the Library building under the Chairmanship of Dr. U. N. Ghoshal. Delegates from the Universities of Burdwan, Calcutta, Patna, and Utkal participated at the Seminar. The Seminar was inaugurated by Dr. Suniti Kumar Chatterjee in the auditorium of the Postgraduate Arts building.

#### MEETINGS OF THE INTER UNIVERSITY BOARDS

The Rector being the President of the Inter University Board, the standing Committee of the Board met at the University on 3rd May, 1963. Vice Chancellors of eight Indian Universities viz. Karnatak, Utkal, Visva Bharati, Baroda, Calcutta and Burdwan attended the meeting.

The Inter University Sports Board also met at the University under the Chairmanship of the Rector on April 22nd and 23rd, 1963. Delegates from 33 Universities attended.

#### LECTURES ON GANDHIAN PHILOSOPHY

Sm. Asha Devi Aryanayakam of the Wardha Ashram was invited to deliver the second series of lectures on Gandhian Philosophy at the University. She spoke on "Gandhi as an Educationist", "Gandhi and the Religion of Man", and the "Gandhian concept of Non-violence".

#### GERMAN WEEK AT THE UNIVERSITY

The University in collaboration with the Consulate General of the Federal Republic of Germany organised a weekly programme of talks, films and music. The Week was inaugurated by Dr. Ramesh Chandra Majumdar.

#### SHAKESPEARE QUATER CENTENARY

The University was perhaps first in the field to celebrate Shakespeare's Quater centenary. The drama "Tempest" was staged on this occasion.

The British Council and the University jointly presented "Macbeth in Camera", a dramatised lecture on producing a Shakespearian play. The feature was written and directed by the celebrated actor Mr. Harold Lang.

#### SPORTS

During the period under report the University participated in a number of Inter-University and Inter-Collegiate tournaments. The University became the venue for the Inter-University Table Tennis Tournament. Twenty one teams competed for the North Zone Men's events and ten for the women's events. In the men's events, Delhi University who had been the champion in 1960-61, regained the honour by defeating Agra University. In the women's event, the champions were Vikram University. In the national finals, these two teams met Bombay Men's and Women's

teams who had come up as the champions from the South. Bombay's team won the Men's title and the Women's title went to Vikram University. The Annual sports of the University came off in February, the final events taking place on the 22nd. The inauguration ceremony was performed by Sri P. C. V. Mallik, the Registrar. Sri Pranabesh Sanyal, the seniormost athlete, took the oath on behalf of the competitors.

### STUDENTS' ACTIVITIES

The University team won the Rashtraguru Memorial Running Cup at the Inter Collegiate Debate organised by Surendra Nath Law College. The University team was represented by Sm. Alokanda Roy (M. A. English) and Sri Amritananda Das (B. A. Economics).

Sri Sadhan Ganguly, a student of Chemical Engineering, won the individual championship in the Junior Group at the State Athletic meet held in Calcutta. He also represented West Bengal at the National Athletics meet held at Allahabad and won the Gold Medal for Javelin throw in the Junior Group.

The University team annexed the first prize in the Inter University Radio Play competition in Bengal for 1963. This was the fourth successive victory of the University in this competition. The University team in Hindi (composed of students whose mother tongue is not Hindi) won the East Zone championship, but lost in the All India final.

Sri Dwijadas Banerji (M. A. English) won a medal in elocution competition among students organised by the Vivekananda Centenary Committee held at the Ramakrishna Mission Institute of Culture.

### FOUNDATION DAY OF THE N. C. E., BENGAL

The foundation day was celebrated in the traditional way on 11th March. Dr. Hiralal Roy, a Vice-President of the Council, hoisted the Council's flag in the morning. The ceremonial meeting in the evening was presided over by Dr. Hiralal Roy. The principal speaker was Rai Harendra Nath Chaudhuri, the Education Minister.

### ALL DAY SOCIAL OF THE ALUMNI ASSOCIATION

The All Day Social took place on September 15. About 600 members and guests had lunch served in the Indoor Stadium. The Annual General Meeting of the Association was held in the Vivekananda Hall.

### NEW OFFICE BEARERS OF THE ALUMNI ASSOCIATION

Dr. Hiralal Roy was elected the President of the Association and Professor Gopal Chandra Sen, Vice President. Sri Krishna Chandra Chatterjee was elected as the Secretary and Professor Dilip Kumar Dutt the Treasurer of the Association.

### LIBRARY

During the period under review 11,818 volumes of Books and other materials were added to the library bringing the total approximately to above 37,000. More than 3,830 items were received as gifts from various individuals, institutions, as well as from Central and State Governments. Approximately 8050 books have been processed during the period. The total number of circulation of Books and Journals have been 90,000. Library published during the period under report "Monthly Bulletin" containing list of articles in important Journals. As in previous years this year also several "Book Exhibitions" were held by Asia Publishing Co. and others. These Exhibitions proved very popular and number of books were selected for purchase by different departments.

The following Institutions have donated a number of books to the University.

1. Sri S. S. Binopal	8
2. U. S. I. S.	246
3. Inter. Book Exchange Department	10
4. World University Service	49
5. Director of French Cultural Centre	34
6. P. C. Majumdar	8
7. Lions Club of Tollygunge	34
8. Asia Foundation	497
9. Sarat Mitra Collection	417
10. U. S. Government	839
11. Saroj Kumar Dhar	57
12. Addison Wesley	20
13. Pratul Kumar Ghosh	36
14. M. K. Ganguly	277
15. Smithsonian Institution, Washington	10

### VISIT OF AMBASSADOR BOWLES

H. E. Chester Bowles, the United States Ambassador in India visited the University on the 26th September, 1963 and presented more than six hundred

books to the University. Ambassador Bowles was received by the Rector and other officials and teachers of the University. The Rector welcomed him with a short speech. Dr. P. C. Chakravarti, Dean of the Faculty of Arts moved a vote of thanks. After the meeting which was held in the Vivekananda Hall, the Ambassador spent half an hour with some students discussing with them various topics.

#### VISIT OF ACHARYA VINOBA BHAVE

The University had the honour of playing the host to Acharya Vinoba Bhave and his companions on the 13th June, 1963. The University College of Arts was chosen for accommodating Acharya Bhave and his party. Acharya Bhave and his party was received near the University gate by Dr. T. Sen, the Rector.

The foundation stone of the Gandhi Bhavan was formally laid by Vinobaji. The prayer meeting in the morning was attended among others by the President of the University, Shrimati Padmaja Naidu, the Governor of West Bengal and Sri Chittaranjan Chatterjee, the Mayor of Calcutta. The evening prayer meeting was arranged in the Sports ground.

Shrimati Asha Devi Aryanayakam acted as the interpreter in the prayer meetings.

#### NATIONAL CADET CORPS

On the recommendation of the Inter-University Board for putting N.C.C. training on a permanent basis, the University has adopted a comprehensive plan. N.C.C. training has been made compulsory for all able-bodied male students except the students of the final year degree and the Post-graduate classes. 70% attendance in N.C.C. classes and parades have been made compulsory for all students excepting those who are otherwise exempted. The system of oral examination for the cadets belonging to the first three year classes of the Five year courses in Engineering at the end of each session has also been introduced. No. 12 Bengal Air Squadron (Sr. Division N.C.C.) annexed the first prize both in Drill and Aero Modelling Competition at the Zonal Annual Air Wing Training Camp held at Jay-Nagar.

Six teachers of this University were commissioned as officers after completion of training at the N.C.C. Officers Training School, Kamptee.

Sri A. Mehta of 4th year class of Mechanical Engineering attached to

No. 12 Bengal Air Squadron, N.C.C., won three First Prizes and two Second Prizes and also won the individual Championship at the All India Air Modelling Rally, held at Behala.

The Annual Training Camp of the Engineering and Signals Companies was held at Habra from 23rd of December. The 8th Bengal Engineering Company was declared to be the first unit.

#### WORLD UNIVERSITY SERVICE

A unit of the World University Service which was set up here in 1959 has been doing useful work every year. Their record in 1963 had been particularly remarkable. The members undertook to devote one whole day to bring a new look to the Students' Canteen. Work was started early in the morning and in course of the day, they succeeded in having the walls cleaned and white washed. Some teachers of the University also joined them in this work.

41 delegates of the W.U.S. came from U.S.A. in the last week of June. The student members of W.U.S. showed them round the campus. Two projects were taken up for the Calcutta Group: one was the making of one approach road at Narendrapur Ramakrishna Mission Ashram and another helping in the construction of the office of our W.U.S. unit on the Campus.

Mr. Leon Marion, Regional Executive, W.U.S. of Atlanta, Georgia, was the Work Project leader.

#### CULTURAL PROGRAMME BY U.S.I.S.

The U.S.I.S. organised a week long programme of educational and cultural activities on the campus from 23rd to 28th September. The exhibition "America's Scientific Quest" remained open at the Post-graduate Science Building throughout the week. Besides shelves of American books, and particularly books by Nobel laureates from America in literature were exhibited in the University Library. Learned lectures for students of different disciplines were also arranged.

#### UNIVERSITY DRAMA CLUB

The Club raised Rs. 1,475/- from the Alumni, Staff and Students for helping the family of a student who was attacked with tuberculosis—The Purse was handed over to the Rector on behalf of the club at the ceremonial

meeting held on 11th March on the occasion of the Foundation Day of the National Council of Education, Bengal.

### CONVOCATION

The Annual Convocation was held on 11th January, 1964. The Convocation address was delivered by Shri M. C. Chagla, the Union Education Minister.

In all 786 students received their Degrees in the various subjects, details of which are given below:

Doctor of Philosophy in Science (Ph.D.)	8
—Do— Arts	4
Master of Science (M.Sc.) Chemistry	4
—Do— Applied Geology	15
—Do— Mathematics	22
—Do— Physics	11
Master of Arts (M.A.) Bengali	23
—Do— Comparative Literature	10
—Do— Economics	20
—Do— English	30
—Do— History	31
—Do— International Relations	16
—Do— Philosophy	30
—Do— Sanskrit	19
Master of Chemical Engineering (M.Ch.E.)	1
Master of Civil Engineering (M.C.E.)	3
Master of Electrical Engineering (M.E.E.)	5
Master of Mechanical Engineering (M.M.E.)	4
Master of Technology (M.Tech.)	2
Master of Tele-Communication Engineering (M.Tel.E.)	3
Bachelor of Science (B.Sc.) Chemistry	9
—Do— Geological Science	16
—Do— Mathematics	9
—Do— Physics	6
Bachelor of Arts (B.A.) Bengali	8
—Do— Comparative Literature	4
—Do— Economics	9
—Do— English	4
—Do— History	3
—Do— Political Science	11
—Do— Sanskrit	2

Bachelor of Chemical Engineering (B.Ch.E.)	60
Bachelor of Civil Engineering (B.C.E.)	152
Bachelor of Electrical Engineering (B.E.E.)	90
Bachelor of Mechanical Engineering (B.M.E.)	111
Bachelor of Tele-communication Engineering (B.Tel.E.)	31
	Total .. 786

List of Medals and prizes awarded to the students at the Annual Convocation are given in Annexure D. Lists of Degree holders are given in Annexure E.

### DISTINGUISHED VISITORS

Amongst the many visitors who visited the University during the period under report, the names of the following distinguished persons, may be mentioned:

1. Right Reverend Dr. Lakdas de Mel, Bishop of Calcutta & Metropolitan of India.
2. Prof. P. H. Partridge, Director of Research School of Social Sciences of the Australian National University.
3. Miss Christal Stefler, Consul of the Federal Republic of Germany.
4. Prof. C. E. Dryden of Ohio State University.
5. Prof. K. Takeda, Assistant Professor, Science and Literature Department of Chiba University, Tokyo.
6. A group of German students comprising of 7 members from the Universities of Mannhien, Tubingen, Berlin, Karlsrue and Heidelberg.
7. Mr. Lindhal, Chief of Labour Division, U.S.A.
8. Dr. H. Ruete, Consul General, Federal Republic of Germany.
9. Mr. Christopher Isherwood, noted English novelist and dramatist.
10. Dr. Kalikinkar Datta, Vice-Chancellor, Magadh University.
11. Dr. Raynor Johnson, Master of Queens College, University of Melbourne.
12. Shri Sham Nath, Union Deputy Minister of Information and Broadcasting.
13. Dr. Norman H. Dawes, Director designate of the United States Educational Foundation in India.
14. Dr. H. R. Ambler, O.B.E., Scientific Adviser to the British High Commission in India.
15. Prof. I.I. Gurvitich of Moscow University.
16. Academician N. V. Belov, Director, Institute of Crystallography, Academy of Sciences, U.S.S.R.

17. Dr. Frithjof Rodi of University of Tubingen, West Germany.
18. Dr. A. S. Sadykov, Rector of the Tashkent University.
19. Prof. M. M. Mrinashrili, Vice-Rector of Tbilisi State University.
20. Prof. Y. V. Novozhelov, Vice-Chancellor, Leningrad University.

#### DEVELOPMENT AND EXPANSION

The State Government sanctioned a grant of a little more than two lakhs of rupees for filling up the low lying areas on the campus and for the construction of boundary walls.

During the period under report, the University received the following grants from the University Grants Commission, Government of India and Government of West Bengal.

Building	—	Rs. 15,74,067.00
Equipment	—	Rs. 3,10,019.76
Furniture	—	Rs. 25,000.00
Books & Journals	—	Rs. 1,44,834.00

#### BODIES OF THE UNIVERSITY

The names of members of the different bodies of the University are given in Annexure F.

#### OFFICE AND OTHER STAFF

Following appointments were made during the year under report in the different departments of the University.

*Laboratory Assistant:* Sri Tarun Kumar Bhattacharya  
Sri Provash Chandra Das  
Sri Prakriti Kumar Mukherjee  
Sri Asutosh Chakraborty  
Sri Prasanta Kumar Bhattacharyya  
Sri Partha Banerjee  
Sri Sukanta Ray  
Sri Tarun Kumar Bose  
Sri Alok Sanyal

*Junior Assistant:* Sri Chittaranjan Roy  
Sri Subrata Kumar Chakraborty  
Sri Amiya Kumar Chakraborty

Sri Brojolal Ghosh  
Sri Mohit Kumar Gangopadhyay  
Sri Mihir Kumar Chakraborty  
Sri Amiya Kumar Banerjee  
Sri Achinta Kumar Mitra  
Sri Basudeb Mitra  
Sri Prasanta Kumar Banerjee  
Sri Subandu Bhadra  
Sri Hari Narayan Ghosh  
Sri Rathindra Mohan Kar  
Sri Pabitalal Ganguly

*Library Assistant (Senior):* Sm. Jolly Gupta

—Do— (Junior) Sm. Asha Chawdhury  
Sm. Aruna Choudhury  
Sm. Sulekha Gupta  
Sri Abhijit Mukhopadhyay

*Care-Taker:* Sri Prasanta Kumar Sarkar  
Sri Kumarendra Palit

Sri Mahadeb Kumar Ghosh, M.A. (J.U.) was appointed Senior Superintendent (General) with effect from 18. 3. 64.

Sri Paresch Nath Chakraborty, was re-appointed Head Assistant on expiry of his term of office upto 26. 12. 63.

Services of Sri Paresch Chandra Dhar, Caretaker and Sri Panchanan Bag, Mistry Instructor were extended upto 50. 6. 64.

Sri Amrita Kumar Nandi, Junior Assistant, Accounts Department was promoted to Senior Assistant with effect from 1. 6. 63 and was placed in charge of internal audit.

Sri Nirendra Kumar Guha Chawdhury, Junior Assistant in the Examination Office was promoted to Senior Assistant with effect from 1. 7. 63.

#### RESIGNATION

Sri Sunirmal Sinha, Library Assistant, resigned from service with effect from 21. 9. 63.

## MISCELLANEOUS

The total number of academic working days was 267. The different bodies of the University held the following number of meetings:

University	12
Academic Council	8
Administrative Council	12
Development Council	1
Finance Council	5

The total number of Student residents in the Hostels was 809.

## FINANCE

During the year 1963-64, the following was the position of income and expenditure:

## REVENUE

During the year under report, the University incurred a total expenditure of Rs. 58,50,378.44 under the following major heads:

	Rs.	Rs.
1. University (General)		12,41,236.51
2. Faculty of Engineering & Technology:		
(i) Existing Degree Courses in Engg. (Mechanical, Electrical & Chemical)	13,57,328.62	
(ii) Expansion of the training capacity of the existing degree courses	5,83,227.56	
(iii) Civil Engineering Degree Course	1,90,917.77	
(iv) Part-time Degree Courses in Engg.	1,99,596.22	
(v) 5 year Integrated Courses in Engg.	1,65,086.30	
(vi) Post Graduate Courses in Food Tech.	30,358.34	
(vii) Modernisation & Organisation of the Chemical Engineering Courses	11,437.36	
(viii) Degree Course in Pharmacy	2,295.80	
	<hr/>	25,40,247.97
3. Faculty of Arts & Sciences:		
(i) Faculty of Arts	6,65,582.71	
(ii) Faculty of Science	8,15,991.58	
(iii) Development of Higher Scientific Education & Research	35,887.00	
(iv) Development of Higher Education in Humanities & Social Sciences	20,138.00	
	<hr/>	15,37,599.29
4. Hostels		1,64,755.84
5. Research Activities		3,66,544.83
		<hr/>
	Rs.	58,50,378.44

The revenue income for the year under report was Rs. 55,11,047.94/- and was received under the following broad heads:

(i) Fees from Students	9,64,377.50	
(ii) Grant from State Govt.	31,02,203.47	
(iii) Grant from University Grants Commission	9,25,870.37	
(iv) Grant from Central Govt.	97,373.13	
(v) Grant from other bodies	2,20,813.05	
(vi) Seat rent & electricity charges from Hostel boarders	1,13,404.34	
(vii) Other sources	87,006.08	
		Rs. <u>55,11,047.94</u>

The revenue deficit of Rs. 3,39,330.50 (i.e. Rs. 58,50,378.44 less, Rs. 55,11,047.94) was apparently met on a temporary basis from bank overdrafts and earmarked funds.

#### CAPITAL

During the year under report, non-recurring expenditure was incurred on the following broad heads:

	Rs.	
Building	14,00,002.37	
Equipment & Machinery	1,85,279.46	
Furniture & Fixtures	59,458.10	
Books & Journals	1,49,452.73	
		<u>17,94,192.66</u>

The following non-recurring grant were received from Govts. & other bodies during the year under report.

(i) Building:			
University Grants Commission	10,22,751.00		
Govt. of West Bengal	5,51,316.00	15,74,067.00	
(ii) Equipment & Machinery:			
University Grants Commission	2,37,914.76		
Govt. of West Bengal	66,000.00		
Govt. of India	6,105.00		
		<u>3,10,019.76</u>	

(iii) Furniture & Fixtures:			
Govt. of West Bengal			25,000.00
(iv) Books & Journals:			
University Grants Commission	1,36,534.00		
Govt. of West Bengal	5,000.00		
Govt. of India	3,300.00		
		<u>1,44,834.00</u>	
	Rs.		<u>20,53,920.76</u>

#### THIRD FIVE YEAR PLAN

The University at its meeting held on 30th March 1963, recorded receipt of sanction of grants for implementation of the following development Schemes under the 3rd Five year Plan from the University Grants Commission. The sanction of grants stated below relates to the Share of University Grants Commission only. The State Govt. is to meet the matching grants on sharing basis:

(i) Science:			
Building	—3rd Plan		5,00,000.00
	—Spill over		2,35,000.00
Equipment	—3rd Plan		3,36,000.00
	—Spill over		1,46,000.00
Books	—3rd Plan		1,50,000.00
Recurring (Staff)	3rd Plan		64,000.00
	—Spill over		80,000.00
(ii) Humanities & Social Sciences:			
Building	—3rd Plan (Library)		66,600.00
	—Spill over (P.G. Arts)		7,20,000.00
Equipment	—3rd Plan		6,600.00
Books	—3rd Plan		1,90,000.00
	—Spill over		40,000.00
Publication of Research work (Bengali)—3rd Plan			50,000.00
Air Conditioning & Furniture for Library			
Building	—Spill over		1,44,000.00
Recurring (Staff)	3rd Plan		1,74,800.00
	—Spill over		37,000.00

(iii) General:		
Two Hostels —3rd Plan		3,00,000.00
Staff Quarters —3rd Plan		3,00,000.00
Printing Press —Spill over		1,21,000.00
	Total	<u>36,61,000.00</u>

#### ENDOWMENTS & DONATIONS

During the year under report the following endowments & donations were received:

- (i) Annual donation of Rs. 10,000/- from M/s. Jessop & Co. Ltd. to the Rector's Fund for finance assistance to the poor students of the University.
- (ii) An endowment of Rs. 1,000/- from the Nikhil Banga Sahid-o-Deshsevak Smriti Samity for awarding a book prize to be known as "Nripendra Chandra Bandopadhyay Memorial Prize" to the student who stands first in the M.A. Examination in Comperative Literature.
- (iii) An endowment of Rs. 5,000/- from the Trustees of the Maharashtra Niwas Trust for institution a Gold Medal or any equivalent in the name of Dr. B. C. Roy to be awarded to the student who tops the list in the Final Examination in Bachelor of Engineering.
- (iv) An endowment of Rs. 700/- from Sri Bimala Kanta Sarkar for instituting a silver medal named as "Aloke Kumar Sarkar Memorial Medal" to be awarded to the student who is considered to be the best in every respect upon his promotion from the 1st to the 2nd year class of the Engineering Degree Courses.

#### ANNEXURE A

##### TABLE 1

FACULTY WISE ENROLMENT OF THE ENTIRE STUDENT POPULATION OF THE JADAVPUR UNIVERSITY FOR 1963-1964

Faculty	No. of Students			No. of doctorate students included in			No. of the preparatory students included in		
	Boy	Girl	Total	col. 2	col. 3	col. 4	col. 2	col. 3	col. 4
1	2	3	4	5	6	7	8	9	10
Arts	.. 281	575	856	7	4	11	4	58	62
Science	.. 461	57	518	18	4	22	85	2	87
Engineering & Technology	.. 2584	26	2610	13	—	13	—	—	—
	3326	658	3984	38	8	46	89	60	149

## ANNEXURE A—Continued

TABLE 1 (a)

Teaching Department	Boys	Girls	Total	Including the Post-graduate students		
				Boys	Girls	Total
1	2	3	4	5	6	7
<b>Faculty of Arts:</b>						
Bengali ..	18	80	98	15	59	
Comparative Literature ..	15	40	55	12	36	
Economics ..	57	33	90	37	19	
English ..	57	65	122	37	39	
History ..	31	71	102	24	52	
International relations ..						
Political Science ..	39	84	123	25	54	
Philosophy ..	14	86	100	12	77	
Sanskrit ..	36	55	91	35	48	
	267	514	781	197	384	
<b>Faculty of Science:</b>						
Chemistry ..	83	9	92	31	2	
Geological Sciences ..	97	3	100	33	1	
Mathematics ..	104	29	133	59	29	
Physics ..	74	10	84	32	5	
	358	51	409	155	37	
<b>Faculty of Engineering &amp; Technology</b>						
Chemical Engineering ..	322	4	326	9 (chem) 6 (food tech)		
Civil Engineering ..	1089	1	1090	8	—	
Electrical Engineering ..	728	5	733	9	—	
Mechanical Engineering ..	716	—	716	8	—	
Tele-communication Engg. ..	610	1	611	5	1	
	3465	11	3476	45	1	

N.B. :a) The number of students enrolled for the doctorate and preparatory courses has not been included in the above figures;

(b) The number of the part time students in engineering (degree courses) included in the above figures is as follows:

1 Civil engineering	293
2 Electrical Engineering	108
3 Mechanical Engineering	103

## ANNEXURE A—Continued

TABLE 1 (b)

## STUDENTS' STATISTICS

Course	No. of the applicants	No. admitted		
		Boys	Girls	Total
<b>Faculty of Arts:</b>				
Preparatory ..	4	58	62	
<b>Degree courses:</b>				
Bengali ..	—	7	7	
Comparative Literature ..	—	2	2	
Economics ..	6	5	11	
English ..	8	8	16	
History ..	—	8	8	
Political Science ..	5	9	14	
Philosophy ..	2	4	6	
Sanskrit ..	—	4	4	
	Total	21	47	68
<b>Postgraduate:</b>				
Bengali ..	12	27	39	
Comparative Literature ..	7	20	27	
Economics ..	20	14	34	
English ..	20	18	38	
History ..	11	27	38	
International Relations ..	12	28	40	
Philosophy ..	5	42	47	
Sanskrit ..	22	23	45	
	Total	109	199	308
	Grand Total	134	304	438
<b>Faculty of Science:</b>				
Preparatory Science ..	85	2	87	
<b>Degree Courses:</b>				
Chemistry ..	24	4	28	
Geological Sciences ..	26	—	26	
Mathematics ..	24	—	24	
Physics ..	22	1	23	
	Total	96	5	101
<b>Postgraduate:</b>				
Chemistry ..	18	2	20	
Applied geology ..	18	—	18	
Mathematics ..	30	18	48	
Physics ..	17	3	20	
	Total	83	23	106
	Grand Total	264	30	294

## ANNEXURE A—Continued

TABLE 1 (b) (Contd.)

Course	No. of the applicants	No. admitted		
		Boys	Girls	Total
<b>Faculty of Engineering and Technology:</b>				
DEGREE COURSES IN ENGINEERING				
Chemical Engineering B.Ch.E. ..		64	—	64
Civil Engineering B.C.E. ..		102	—	102
Electrical Engineering B.E.E. ..		97	—	97
Mechanical Engineering B.M.E. ..		89	—	89
Tele-communication Engg. B.Tel.E. ..		38	4	42
Total		390	4	394
<b>Post graduate Engineering:</b>				
Chemical Engineering M.Ch.E. ..		6	—	6
Civil Engineering M.C.E. ..		1	—	1
Electrical M.E.E. ..		2	—	2
Mechanical Engineering M.M.E. ..		1	—	1
Tele-communication Engg. M.Tel.E. ..		2	1	3
Food Technology M.Tech. ..		11	—	11
Total		23	1	24
<b>Part-time Engineering:</b>				
DEGREE COURSE IN ENGINEERING				
Civil Engineering B.C.E. ..		107	—	107
Electrical Engineering B.E.E. ..		39	—	39
Mechanical Engineering B.M.E. ..		35	—	35
Total		181	—	181
<b>Doctorate Engineering:</b>				
Chemical Engineering ..		2	—	2
Electrical Engineering ..		4	—	4
Mechanical Engineering ..		5	—	5
Tele-communication Engg. ..		2	—	2
Total		13	—	13

## ANNEXURE A—Continued

TABLE I (C)

## CLASS-WISE ENROLMENT OF STUDENTS IN PREPARATORY, UNDERGRADUATES, POST-GRADUATES AND DOCTORATE COURSES

DEPARTMENT	UNDERGRADUATE										POST-GRADUATE			GRAND TOTAL			
	Preparatory	I		II		III		IV		IV(O)	Total	I	II		Total	Doctorate	TOTAL
		2	3	4	5	6	7	8	9								
1																	13
<b>Faculty of Arts:</b>																	
Bengali	—	7	9	11	—	—	—	—	—	—	27	39	35	74	1	102	
Comparative Literature	—	2	2	3	—	—	—	—	—	—	7	27	21	48	—	55	
Economics	—	11	8	15	—	—	—	—	—	—	34	34	22	56	1	91	
English	—	16	17	13	—	—	—	—	—	—	46	38	38	76	2	124	
History	—	8	10	8	—	—	—	—	—	—	26	38	38	76	1	103	
International Relations—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Political Science	—	14	20	10	—	—	—	—	—	—	44	40	39	79	1	124	
Philosophy	—	6	2	2	—	—	—	—	—	—	10	47	42	89	1	100	
Sanskrit	—	4	—	4	—	—	—	—	—	—	8	45	38	83	4	95	
Preparatory Arts	62	—	—	—	—	—	—	—	—	—	62	—	—	—	—	62	
Total	62	68	68	66	—	—	—	—	—	—	264	308	273	581	11	856	
<b>Faculty of Science:</b>																	
Chemistry	—	28	19	12	—	—	—	—	—	—	59	20	13	33	7	99	
Geological Sciences—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Applied Geology	—	26	19	11	—	—	—	—	—	—	56	18	26	44	6	106	
Mathematics	—	24	14	7	—	—	—	—	—	—	45	48	40	88	5	138	
Physics	—	23	16	8	—	—	—	—	—	—	47	20	17	37	4	88	
Preparatory Science	87	—	—	—	—	—	—	—	—	—	87	—	—	—	—	87	
Total	87	101	68	38	—	—	—	—	—	—	294	106	96	202	22	518	

## ANNEXURE A—Continued

TABLE I C—Contd.

## CLASS-WISE ENROLMENT OF STUDENTS IN PREPARATORY, UNDERGRADUATES, POST-GRADUATES AND DOCTORATE COURSES

DEPARTMENT	UNDERGRADUATE											POST-GRADUATE			GRAND TOTAL	
																Doctorate
	Preparatory	I	II	III	IV	IV(O)	Total	I	II	Total	11	12	13			
1	2	3	4	5	6	7	8	9	10	11	12	13				
<b>Faculty of Engineering:</b>																
Chemical Engineering	—	64	65	51	61	70	311	9	—	9	2	—	322			
Civil Engineering	—	102	95	93	92	114	496	8	—	8	—	—	504			
Electrical Engineering	—	97	97	102	88	132	516	9	—	9	4	—	529			
Mechanical Engineering	—	89	97	92	102	122	502	8	—	8	5	—	515			
Tele-Communication Engg.	—	42	39	31	45	45	202	6	—	6	2	—	210			
Pharmacy	—	20	—	—	—	—	20	—	—	—	—	—	20			
Food Technology	—	—	—	—	—	—	—	6	—	6	—	—	6			
Total ..	—	414	393	369	388	483	2047	46	—	46	13	—	2106			
<b>Part Time Engineering:</b> (Degree Course)																
Civil Engineering	—	107	64	72	50	—	293	—	—	—	—	—	293			
Electrical Engineering	—	39	29	32	8	—	108	—	—	—	—	—	108			
Mechanical Engineering	—	35	32	25	11	—	103	—	—	—	—	—	103			
Total ..	—	181	125	129	69	—	504	—	—	—	—	—	504			
Grand Total ..	149	764	654	602	457	483	3109	460	369	829	46	—	3984			

## ANNEXURE A—Continued

TABLE 1 (d)  
NUMBER OF STUDENTS FROM THE FOREIGN COUNTRIES

Country	Arts	Science	Engineering and Technology	Total
Burmah	.. 1	—	—	1
Ceylon	.. —	—	1	1
Nepal	.. 1	—	16	17
Thailand	.. 4	—	1	5
Total ..	6	—	18	24

ANNEXURE A  
TABLE II  
EXAMINATION RESULTS—1963

NAME OF EXAM.	NUMBER APPEARED				NUMBER PASSED BOYS				NUMBER PASSED GIRLS				GRAND TOTAL	
	Boys		Girls		1st Class		2nd Class		1st Class		2nd Class			Total
	2	3	4	5	6	7	8	9	10	11	12			
1	2	3	4	5	6	7	8	9	10	11	12	13		
Arts:														
Preparatory Arts	3	18	21	—	—	—	3	—	—	—	—	15	18	
Bachelor of Arts:														
Bengali	2	6	8	—	2	—	2	—	4	2	6	8		
Comparative Literature	1	4	5	—	1	—	1	—	3	—	3	4		
Economics	6	8	14	—	3	—	3	—	4	1	6	9		
English	5	2	7	—	2	1	3	—	4	—	6	9		
History	1	3	4	—	1	—	3	—	1	—	1	4		
Political Science	5	9	14	—	2	1	3	—	6	2	8	11		
Philosophy	—	2	3	—	—	—	—	—	—	—	—	—		
Sanskrit	1	2	3	—	1	—	1	—	—	—	—	—		
21	34	55	—	—	12	2	14	1	20	6	27	41		
Master of Arts:														
Bengali	1	22	23	—	1	—	1	—	22	—	22	23		
Comparative Literature	5	7	12	—	4	—	4	—	6	—	6	10		
Economics	17	6	23	—	14	—	14	—	6	—	6	20		
English	14	20	34	—	12	—	12	—	18	—	18	30		
History	13	20	33	—	13	—	13	—	18	—	18	31		
International Relations	8	14	22	—	7	—	7	—	9	—	9	16		
Philosophy	10	26	36	—	9	—	9	—	20	—	21	30		
Sanskrit	7	12	19	—	5	—	7	—	10	—	12	19		
75	127	202	—	2	65	—	67	3	109	—	112	179		

ANNEXURE A—Continued  
TABLE II (Contd.)  
EXAMINATION RESULTS 1963

Name of the Examination	NUMBER APPEARED				NUMBER PASSED BOYS				NUMBER PASSED GIRLS				GRAND TOTAL	
	Boys		Girls		1st class with honours		2nd class		1st class with honours		2nd class			Total
	2	3	4	5	6	7	8	9	10	11	12			
1	2	3	4	5	6	7	8	9	10	11	12	13		
Faculty of Engineering Bachelor of Engineering:														
Chemical Engg. (B.Ch.E.) ..	58	3	61	1	22	26	49	—	3	—	3	52		
Civil Engg. (B.C.E.) ..	113	—	113	1	27	78	106	—	—	—	—	106		
Electrical Engg. (B.E.E.) ..	89	—	89	4	65	12	81	—	—	—	—	81		
Mechanical Engg. (B.M.E.) ..	107	—	107	3	55	38	96	—	—	—	—	96		
Telecommunication Engg. (B. Tel.E.) ..	28	3	31	1	22	3	26	—	2	—	2	28		
395	6	401	—	10	191	157	358	—	5	—	5	363		
Bachelor of Engineering Supplementary Examination														
Chemical Engg. (B.Ch.E.) ..	8	—	8	—	1	7	8	—	—	—	—	8		
Civil Engg. (B.C.E.) ..	7	—	7	—	—	7	7	—	—	—	—	7		
Electrical Engg. (B.E.E.) ..	7	—	7	—	2	5	7	—	—	—	—	7		
Mechanical Engg. (B.M.E.) ..	11	—	11	—	1	7	8	—	—	—	—	8		
Tele-comm. Engg. (B.Tel.E.)	2	1	3	—	—	2	2	—	1	—	1	3		
35	1	36	—	—	4	28	32	—	1	—	1	33		

## ANNEXURE A—Continued

TABLE II (Contd.)

## EXAMINATION RESULTS 1963

Name of the Examination	NUMBER APPEARED		NUMBER PASSED BOYS				NUMBER PASSED GIRLS				GRAND TOTAL			
	Boys	Girls	Total	1st class with honours		2nd class		Total	1st class with honours			2nd class		Total
				5	6	7	8		9	10		11	12	
1	2	3	4											13
<b>Bachelor of Engineering Part-time Degree Course:</b>														
Civil Engg. (B.C.E.)	41	—	41	—	—	22	23	—	—	—	—	—	—	23
Electrical Engg. (B.E.E.)	2	—	2	—	—	2	2	—	—	—	—	—	—	2
Mechanical Engg. (B.M.E.)	10	—	10	—	—	3	6	—	—	—	—	—	—	6
	53	—	53	—	—	4	31	—	—	—	—	—	—	31
<b>Bachelor of Engineering Supplementary Exam. Part-time Degree Course:</b>														
Civil Engg. (B.C.E.)	18	—	18	—	—	16	16	—	—	—	—	—	—	16
Mechanical Engg. (B.M.E.)	4	—	4	—	—	1	1	—	—	—	—	—	—	1
	22	—	22	—	—	17	17	—	—	—	—	—	—	17
<b>Postgraduate Engineering:</b>														
Chemical Engg. (M.Ch.E.)	1	—	1	—	—	1	1	—	—	—	—	—	—	1
Mechanical Engg. (M.M.E.)	2	—	2	—	—	2	2	—	—	—	—	—	—	2
	3	—	3	—	—	3	3	—	—	—	—	—	—	3
<b>Doctorate</b>	3	—	3	—	—	—	1	—	—	—	—	—	—	1

## ANNEXURE A—Continued

TABLE II—Contd.

## EXAMINATION RESULTS—1963

NUMBER OF EXAM.	NUMBER APPEARED		NUMBER PASSED BOYS				NUMBER PASSED GIRLS				GRAND TOTAL			
	Boys	Girls	Total	1st Class		2nd Class		Total	1st Class			2nd Class		Total
				5	6	7	8		9	10		11	12	
1	2	3	4											13
<b>Science:</b>														
Preparatory Science	78	1	79	—	—	69	69	—	—	—	—	—	—	70
<b>Bachelor of Science:</b>														
Chemistry	14	—	14	1	6	2	9	—	—	—	—	—	—	9
Geological Science	20	—	20	1	14	1	16	—	—	—	—	—	—	16
Mathematics	14	—	14	—	7	2	9	—	—	—	—	—	—	9
Physics	9	—	9	1	5	—	6	—	—	—	—	—	—	6
	57	—	57	3	32	5	40	—	—	—	—	—	—	40
<b>Master of Science:</b>														
Applied Geology	16	—	16	6	9	—	15	—	—	—	—	—	—	15
Chemistry	8	—	8	1	3	—	4	—	—	—	—	—	—	4
Mathematics	26	5	31	7	12	—	19	2	1	—	—	3	—	22
Physics	13	3	16	2	6	—	8	1	2	—	—	3	—	11
	63	8	71	16	30	—	46	3	3	—	—	6	—	52

## ANNEXURE A—Continued

TABLE III

## ENROLMENT PARTICULARS—RESEARCH ACTIVITIES

Teaching Department in the University	Number of Students enrolled for Ph.D/DSc. Degree		
	Boys	Girls	Total
<b>Arts:</b>			
Bengali ..	1	—	1
Economics ..	—	1	1
English ..	2	—	2
History ..	1	—	1
International Relations ..	1	—	1
Philosophy ..	—	1	1
Sanskrit ..	2	2	4
Total ..	7	4	11
<b>Science:</b>			
Chemistry ..	5	2	7
Geology ..	5	1	6
Mathematics ..	4	1	5
Physics ..	4	—	4
Total ..	18	4	22
<b>Engineering &amp; Technology:</b>			
Chemical Engineering ..	2	—	2
Electrical Engineering ..	4	—	4
Mechanical Engineering ..	5	—	5
Tele-communication Engg. ..	2	—	2
Total ..	13	—	13
Grand Total	38	8	46

## ANNEXURE A—Continued

TABLE III (A)

## THESES ACCEPTED FOR THE AWARD OF Ph.D./D.Sc. DEGREE OF THE UNIVERSITY DURING THE YEAR 1963-64

Name of the Candidates	Title of the thesis	Year of award	Degree awarded	Main subject of Research
1. Subhas Chandra Dutta	Propagation of Disturbances in an Elastic Medium.	19. 8. 63	Ph.D. (Science)	Mathematics
2. Dipti Deb	Problems of Rotating Elastic Solids.	18. 12. 63	Ph.D. (Science)	Mathematics
3. Tara Ghosh	Some problems of non-homogeneous and non-isotropic bodies.	18. 12. 63	Ph.D. (Science)	Mathematics
4. Tapas Kumar Chaudhury	Some problems of Fluid Flow.	14. 2. 64	Ph.D. (Science)	Mathematics
5. Gollapudy Subrahmanyam	Synthesis of Polycyclic Compounds: Benzhy-driodane approach towards the steroid syn-thesis and synthetic investigations on Acorone.	30. 4. 63	Ph.D. (Science)	Organic Chemistry
6. Ramchandra Shankar Bhute	Synthesis of Sesamin and Sesamololn-Synthesis of an Isomer of Sesamin, Samin and Analogues of Sesamin and Sesamololn.	30. 4. 63	Ph.D. (Science)	Organic Chemistry
7. Ashoke Kumar Bose	Synthesis of Fused Carnon Ring System.	18. 12. 63	Ph.D. (Science)	Organic Chemistry
8. Arun Kumar Chaudhury	Kinetics & Mechanism of Addition Reactions.	18. 12. 63	Ph.D. (Science)	Phy. Chemistry
9. Bimanesh Sur	Studies on Co-ordination Complexes of Rhenium	18. 12. 63	Ph.D. (Science)	Inorganic Chemistry
10. Tarapada Mukhopadhyay	Bangla Chhanda (Bengali Prosody)	31. 5. 63	Ph.D. (Arts)	Bengali
11. Samir Ranjan Majumdar	Some problems of Incompressible Fluid.	19. 8. 63	Ph.D. (Arts)	Mathematics
12. Debaranjan Mukhopadhyay	Sakti Philosophy and Sakta Literature.	19. 8. 63	Ph.D. (Arts)	Sanskrit
13. Bishnupada Sinha	Coleridge's Theory of Imagination.	18. 12. 63	Ph.D. (Arts)	English

ANNEXURE A—Continued  
TABLE IV  
STATEMENT OF TEACHING STAFF OF JADAVPUR UNIVERSITY

As On 31. 3. 64

Faculty with Departments	Principal	Prof. In charge	PROFESSOR			READER			LECTURER			ASSOC./JR. LEC./DEMONS.			PART-TIME LECTURER				
			Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Arts	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Bengali	—	—	1	—	1	2	—	2	5	—	5	—	—	—	—	1	—	—	—
Comparative Literature	—	—	—	—	—	1	—	1	5	—	5	—	—	—	—	8	—	—	—
Economics	—	—	1	—	1	1	—	1	5	—	5	—	—	—	—	6	2	—	2
English	—	—	1	—	1	3	—	3	6	2	8	—	—	—	—	12	1	—	1
History	—	—	1	—	1	1	—	1	7	3	10	—	—	—	—	12	—	—	—
International Relations	—	—	1	—	1	2	—	2	5	1	6	—	—	—	—	9	—	—	—
Philosophy	—	—	1	—	1	1	—	1	5	3	10	—	—	—	—	12	—	—	—
Sanskrit	—	—	1	—	1	1	—	1	7	3	10	—	—	—	—	9	—	—	—
Language	—	—	—	—	—	2	1	3	2	2	4	—	—	—	—	8	1	—	1
	1	—	7	—	7	13	1	14	44	11	55	—	—	—	—	77	8	—	8
Science	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Physical Chemistry	—	—	1	—	1	1	1	2	4	2	6	—	—	—	—	1	—	—	—
Organic Chemistry	—	—	1	—	1	1	—	1	4	—	4	—	—	—	—	9	—	—	—
Inorganic Chemistry	—	—	—	—	—	2	—	2	11	—	11	—	—	—	—	6	—	—	—
Applied Geology	—	—	1	—	1	3	—	3	9	1	10	—	—	1	—	14	—	—	—
Mathematics	—	—	—	—	—	3	—	3	6	—	6	—	—	—	—	14	—	—	—
Physics	—	—	1	—	1	4	—	4	14	—	14	1	—	—	—	9	—	—	—
	1	—	4	—	4	14	1	15	48	3	51	1	—	1	—	73	—	—	—

ANNEXURE A—Continued  
TABLE IV Contd.  
STATEMENT OF TEACHING STAFF OF JADAVPUR UNIVERSITY  
As On 31. 3. 64

Faculty with Departments	Principal	Prof. In charge	PROFESSOR			READER			LECTURER			ASSOC./JR. LEC./DEMONS.			PART-TIME LECTURER				
			Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Engineering & Technology:	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—
Chemical Engineering	—	—	2	—	2	3	—	3	4	—	4	—	—	—	—	10	—	—	—
Civil Engineering	—	—	2	—	2	6	—	6	6	—	6	—	—	—	—	15	—	—	—
Electrical Engineering	—	1	4	—	4	10	—	10	12	—	12	—	—	—	—	27	—	—	—
Division of Food Tech.	—	—	—	—	—	1	—	1	1	—	1	—	—	—	—	2	1	—	1
Mechanical Engineering	—	1	4	—	4	15	—	15	29	—	29	3	—	3	—	52	—	—	—
Pharmacy	—	—	—	—	—	1	—	1	4	—	4	—	—	—	—	1	—	—	—
Tele-Communication	—	—	1	—	1	2	—	2	4	—	4	—	—	—	—	9	—	—	—
Engg. Economics	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL	1	4	14	—	14	38	—	38	56	—	56	4	—	4	—	117	2	—	2
PHYSICAL INSTRUCTOR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
GRAND TOTAL	3	4	25	—	25	65	2	67	148	14	162	5	—	5	1	269	10	—	10

*Annexure—B*

**Members of the University as on December 24, 1963**

*Ex-officio Members:*

- Miss Padmaja Naidu  
*President*
- Shri Prafulla Chandra Sen  
*President of the National Council of Education*
- Dr. Triguna Sen  
*Rector*
- Shri Sasanka Sekhar Bagchi  
*Treasurer*
- Dr. Hiralal Roy  
*President of the Alumni Association*
- Shri Sudhindra Kumar Laha  
*Chairman, Institution of Engineers, Bengal*
- Shri Chitta Ranjan Chatterjee  
*Mayor of Calcutta*
- Dr. Dharendra Mohan Sen  
*Secretary, Department of Education, West Bengal*
- Shri Kumud Kanta Roy  
*Secretary, Department of Finance, West Bengal*
- Shri Prem Nath Kirpal  
*Secretary, Ministry of Education, Government of India*
- Professor Hem Chandra Guha  
*Dean of the Faculty of Engineering*
- Professor Prithwish Chandra Chakravarti  
*Dean of the Faculty of Arts*
- Professor Sachindra Nath Mukherjee  
*Dean of the Faculty of Science*
- Shri Asim Kumar Datta  
*Principal of the College of Arts*
- Dr. Anil Kumar Majumdar  
*Principal of the College of Science*

*Nominated Members:*

- Shri Arun Kumar Mukherjee  
*By the heirs of the Founder Donor, Late  
"Raja" Subodh Chandra Mallik*

- Shri Birendra Kishore Roy Choudhury  
*By the heirs of the Founder Donor,  
late Brajendra Kishore Roy Choudhury*
- Shri Snehangshu Kanta Acharyya  
*By the heirs of the Founder Donor, late  
Suryya Kanta Acharyya Chowdhury, of Mymensingh*
- Shri Naresh Chandra Chakrabarti  
*By the All India Council for Technical Education*
- Shri G. K. Chandiramani  
*By the Government of India*

*Elected Members:*

- Dr. Satish Chandra Bhattacharyya  
*From the National Council of Education*
- Shri Amarendra Nath Haldar  
*From the National Council of Education*
- Shri Himangshu Sekhar Sinha  
*From the National Council of Education*
- Shri Prafulla Kanta Banerjee  
*From the National Council of Education*
- Shri Rash Behary Dey  
*From the National Council of Education*
- Shri Netai Chand Mallick  
*From the National Council of Education*
- Shri Sudhir Kumar Basu  
*From the National Council of Education*
- Shri Hirendra Nath Mallick  
*From the National Council of Education*
- Professor Dilip Kumar Dutt  
*From the Professors' Constituency*
- Professor Panchanan Chakrabarty  
*From the Professors' Constituency*
- Dr. Nitish Narayan Ray  
*From the Teachers' Constituency*
- Shri Bireswar Prasad Ghosh  
*From the Teachers' Constituency*
- Shri Dinendra Kumar Nandi  
*From the Graduates' Constituency*
- Shri Bhupendra Nath Banerjee  
*From the Graduates' Constituency*

## Annexure—C

RESEARCH & PUBLICATIONS  
FACULTY OF ENGINEERING  
CHEMICAL ENGINEERING

## Research:

- (1) "Flow of non-Newtonian fluids" under the C.S.I.R. scheme—(the work is in progress)—*K. C. Chowdhury*.
- (2) "Reactivity of Indian cokes". (In progress)—*B. C. Chanda*.
- (3) "Effect of orientation on the settling velocity on non-spherical particles in liquids".—*K. C. Roy Chowdhury*.
- (4) "Study of Hold-up and mass transfer rates in continuous pulsed packed extraction column". (in progress)—*D. K. Dutt*.
- (5) "Extraction of Lactic acid by organic solvents—study of distribution and mass transfer rates in continuous pulsed sieve plate extraction column" under the Government of India Research Training scheme—(in progress)—*D. K. Dutt*.
- (6) "Study of submerged combustion" under the C.S.I.R. scheme.—(in progress)—*B. C. Chanda*.
- (7) "Design of Dust Filter"—(in progress)—*K. C. Roy Chowdhury*.
- (8) "Study of mass transfer at high gas velocity" under the U.G.C. grant.—(in progress)—*A. P. Sinha*.
- (9) "Study of the effects of surfactants on solid-liquid mass transfer" under the U.G.C. grant.—(in progress)—*D. N. Ghosh*.
- (10) "Heat transfer coefficient of viscous fluids when heated in scraped surface heat exchanger" under the U.G.C. grant.—(in progress)—*B. N. Srimani*.
- (11) "Fluidisation study of solid-liquid phases" (in progress)—*D. K. Dutt*.
- (12) "Application of paper chromatography in the fields of fats & oils" under the U.G.C. grant.—(in progress)—*R. N. Mukherjee*.

## ELECTRICAL ENGINEERING

## Research:

- (1) Static Transistorised Over-Current Relays with and without Directional Features—*S. P. Patra & S. K. Basu*.
- (2) Static Distance Relays—*S. P. Patra & S. R. Bandopadhyya*.
- (3) Determination of Critical Conditions in Ferroresonant Circuits by Semi Graphical Method—*S. Das Gupta & P. Bhattacharyya*.

- (4) Effects of gas absorption on dielectric properties insulating oils—*B. Chaudhuri & A. K. Basu*.
- (5) Investigations on Oil paper dielectric—*B. Chaudhuri*.

## Publications:

- (1) Transistorised, Static Over-Current Relays. *Electrical Times*, London 14th November, 1963.—*S. P. Patra & S. K. Basu*.
- (2) Low Distortion Constant-Voltage Transformer. *Industrial Electronics*, London, July, 1963.—*J. K. Choudhury & S. N. Bhattacharyya*.
- (3) Application of monte carlo method for the analysis of the D.C. electric network—the 44th annual convention of the Institute of Engineers (Ind.), Hyderabad—February, 1964.—*S. Dasgupta*.
- (4) On the methods of obtaining the torque characteristics of small servomotors—the symposium on testing and evaluation of materials, Alipore Testhouse, Calcutta, March, 1964.—*S. Dasgupta & D. Bhattacharyya*.
- (5) The design and setting up a high voltage laboratory in India—The Golden Jubilee Celebrations of the National Testhouse, Government of India, Alipore, Calcutta—*B. Chaudhuri*.
- (6) Some aspects of the constitution of the transformer oils—The Golden Jubilee Celebrations of the National Testhouse, Government of India, Alipore, Calcutta.—*B. Chaudhuri*.

## FOOD TECHNOLOGY &amp; BIOCHEMICAL ENGINEERING

## Publications:

- (1) Sucrochemistry, its origin and applications—*Ind. sugar*, December, 1963, vol. xiii *John L. Hickson & A. K. Mitra*.
- (2) Food for all—an annual report—the Association of the Food Technologists, the Eastern Regional Branch, June, 1964—*A. K. Mitra*.
- (3) The products from the canesugar industry—the Annual Convention of the Indian Chemical Society, December 26-27, 1964—Allahabad—*J. S. Mehta & A. K. Mitra*.
- (4) The concept of sucrochemistry—the 5th All India Conference on Sugarcane Research and Development Work, Coimbatore—*A. K. Mitra*.

## MECHANICAL ENGINEERING

## Research:

- (1) "Effect of Welded or Bolted joints in a portal frame on the natural

- frequency of damped vibration"—*B. Chatterji & R. K. Chakraborty.*
- (2) "Stress relieve in tension plates with central diamond shaped discontinuity"—*G. Roy & A. K. Roy.*
  - (3) "Study of stress in a thin cylinder under constant and pulsating fluid pressure"—*A. Kundu & R. K. Chakraborty.*
  - (4) "Behaviour of a Non-Newtonian fluid in a journal bearing under constant temperature and variable pressure"—*D. Das & R. K. Chakraborty.*
  - (5) "Fatigue stresses in a curved beam with central circular hole under repeated bending"—*P. Ghosh & R. K. Chakraborty.*
  - (6) "Energy consideration for cumulative damage in Fatigue of Metals"—*B. L. Das & R. K. Chakraborty.*
  - (7) "A new technique for finding whirling speed of a simply supported shaft of non-uniform section"—*N. K. Das Talukdar & R. K. Chakraborty.*
  - (8) "To evolve a system to predict the residual stresses from the welding sequence, joint geometry and design"—*M. Bhattacharyya, G. C. Sen & R. K. Chakraborty.*
  - (9) Mechanics of Grinding—*B. P. Ghosh.*
  - (10) Forces in Grinding during 'Bokuchave' method of application of fluids—*N. C. Kundu.*
  - (11) Self-Induced Vibrations in Metal Cutting—*K. N. Chakraborty.*
  - (12) Mechanics of Drilling Process.—*A. Pal.*
  - (14) On the Strain-rate in Metal Cutting.—*B. Mallick.*
  - (15) High-Speed Machining Characteristics with Ceramic Cutting tools.—*N. Das.*
  - (16) On the Index of normal stress distribution.—*P. Mitra.*
  - (17) On the forces in Milling.—*R. Natarajan.*
  - (18) Mechanics of Kolesov 'Chatter-free' Tool—*S. Banerjee.*
  - (19) Study of Temperature and Surface Finish in Bokuchava Grinding Method.—*P. Banerjee.*
  - (20) Deformation in Drilling Process.—*S. Bera.*
  - (21) On the nature of Friction.—*A. Guha Thakurta.*
  - (22) On Diffusion Wear of Cutting Tools.—*A. Ghosh.*
  - (23) On Stagnant Phenomenon.—*S. Das.*
  - (24) On the plastic deformation of Extrusion process.—*R. K. Ghosh.*
  - (25) On the Process Capability during Milling.—*S. Banerjee.*
  - (26) Study of deformation during oblique machining.—*J. Banerjee (Asst. Prof., Rourkela).*
  - (27) Mechanics of Discontinuous Chips.—*M. L. Mandal (Asst. Prof., Delhi Poly.).*

- (28) Experimental study of the velocity distribution and pressure loss in a 90 degree rectangular bend with or without vane for a small rise in ambient temperature.—*B. Bose & B. N. Chanda.*
- (29) Effect of a single vaned rectangular bend on the velocity distribution and pressure loss.—*B. Bose & B. N. Chanda.*
- (30) Effect of a double vaned rectangular bend on the velocity distribution and pressure loss.—*B. Bose & B. N. Chanda.*
- (31) Performance list of the 2½ ft. × 2½ ft. Jadavpur University wind tunnel.—*B. Bose & B. N. Chanda.*

*Publications:*

Effect of Heat on velocity Distribution and Skinfriction in Turbulent Boundary Layer—Presented at the 8th Congress of the Indian Society for Theoretical & Applied Mechanics, held in Delhi, October, 1963.—*B. Bose & B. N. Chanda.*

FACULTY OF SCIENCE

GEOLOGICAL SCIENCES

*Research:*

- (1) "Mineralogy, genesis and the geology of the area around Amjhore pyrite deposits, Bihar"—*S. Deb & J. Guha.*
- (2) "Exploration of the origin of radioactivity and rare gases of the thermal springs of India with comprehensive mineralogical survey of the Juvenile sources"—*S. Deb, A. L. Mukherjee & D. Mukherjee.*
- (3) "Detailed geological study of the area in and around Gandhamadan Hills, Keonjhar Dist., Orissa with special reference to the study of the Iron Ore deposits, its genesis, paragenesis and industrial aspects"—*S. Deb & S. N. Banerjee.*
- (4) "Mineragraphy of copper ores around Khetri, Jhunjhunu Dist., Rajasthan with special reference to its structural control of mineralisation"—*S. Deb & A. D. Mukherjee.*
- (5) "Physico-chemical and petrological, studies of different grades of coal in Karanpura coalfields"—*B. Mukherjee & P. Bhattacharyya.*
- (6) "Study of the coal deposits in the area around Salanpur, Burdwan district, Raniganj coalfield with special reference to coal petrography"—*B. Mukherjee & R. Mukherjee.*

- (7) "A probe into the problem of the Southern boundary fault at the western portion of the Raniganj coalfield and the Gondwana basin in general including studies of sedimentology, petrology, structure, various aspects of coal and economic and geological aspects of the area around Nirsha in Dhanbad District, Bihar".—*B. Mukherjee & P. Bose.*
- (8) "Structure and correlation of the coal seams in the western and north-western part of Raniganj coalfield, Dist., Burdwan, W. Bengal, by chemical, petrological and palynological studies".—*B. Mukherjee & R. Ghosh.*
- (9) "Mineralogical, textural and paragenetic study of the manganese ores of India and application of results to genetic problems and beneficiation of low grade ores".—*S. Roy & F. N. Mitra.*
- (10) "Investigation of the manganese ore deposits of Gowari-Wadhona mine area, Chhindwara dist., Madhya Pradesh".—*S. Roy & P. K. Purkait.*
- (11) "Investigations on the manganese ore deposits of Ramdongri-Gumgaon and Jothvad mine areas, Maharashtra and Gujrat States respectively with special reference to their mineralogy and genesis".—*S. Roy & S. K. Roy.*
- (12) "Genesis and mineralogenetic trends of manganese ore bodies in the Kachidhana and Sitapar mine areas, Chhindwara district, Madhya Pradesh".—*S. Roy & S. K. Mukherjee.*
- (13) "Petrologic and tectonic history of N. E. Seraikela Subdivision, Singbhum, Bihar".—*S. Ghosh & A. B. Roy.*
- (14) "Mineralogical and Genetic study of the magnetite deposits of Sukinda, Cuttack Dist., Orissa, with special reference to the problem of differentiation in the associated basic rock complex".—*K. L. Chakraborty & P. B. Taron.*
- (15) "A review of the Taxonomy of Jurassic Rhynchonellids from Kutch, W. India".—*K. C. Mitra & D. N. Ghosh.*
- (16) "Petrology of Bagh beds with special reference to their palaeogeography".—*A. Bhattacharyya.*
- (17) "Geology of the area around Tirodi, Dist., Balaghat, Madhya Pradesh with special reference to the manganese ores".—*A. K. Bhattacharyya.*
- (18) "Petrology and paleogeography of Lameta beds in and around Jabalpur".—*S. Chanda.*
- (19) "Study of mineralisation of Zawar lead-zinc deposit, Rajasthan".—*P. Bhattacharyya.*

- (20) "Structure and Petrology of Deolapar area, Nagpur Dist., Maharashtra".—*N. K. Basu.*
- (21) "Mineralogy & Genetic study of the titaniferous-magnetite and chromite deposits of Cuttack Dist., Orissa".—*K. L. Chakraborty.*

*Publications:*

- (1) "A note on the petrology of kare seam, Bokaro coalfield, Hazaribagh Dist., Bihar". *Procd. 50th Indian Science Congress, Pt. III, pp. 243, 1963.*—*B. Mukherjee & A. Bhattacharyya.*
- (2) "Study of sediments in Panchet, Gourangi and Biharinath hills in the Raniganj coalfield and its significance in the recognition of Panchet and Supra-Panchet Series". *Procd. 50th Indian Science Congress, Pt. III, pp. 249-50, 1963.*—*B. Mukherjee & D. Sen.*
- (3) "Studies of coal macerals—discussion". *Economic Geology, Vol. 58, No. 8, pp. 1347-48, December, 1963.*—*B. Mukherjee.*
- (4) "Mineralogy and genesis of the gondites associated with metamorphic manganese ore bodies of Madhya Pradesh and Maharashtra, India". *Communicated in 1963 to the Proceedings, National Institute of Sciences of India.*—*S. Roy & F. N. Mitra.*
- (5) "Stability relations of manganese oxide minerals in metamorphic ore bodies corresponding to sillimanite grade in Gowari-Wadhona mine area, Chhindwara Dist., Madhya Pradesh". *Economic Geology*—*S. Roy & P. K. Purkait.*
- (6) "Recent studies on the phase equilibrium relations of manganese minerals and their implications on the mineralogenetic trend of natural ore deposits". *Advancing Frontiers of Geology & Geophysics.*—*S. Roy.*
- (7) "Mineralogical and textural study of the metamorphosed manganese orebody at Kajlidongri, Jhabua Dist., Madhya Pradesh". *Communicated to Proc. Indian Science Congress, 51st Session, 1964.*—*S. Roy & A. Adhya.*
- (8) "Genesis of the manganese orebodies at Shivrajpur, Panch Mahal Dist., Gujrat". *Communicated to Procd. Indian Science Congress, Vol. 51.*—*S. Roy & S. K. Mukherjee.*
- (9) "Relationship of anthophyllite, cummingtonite and manganese-cummingtonite in the metamorphosed Wabush Iron Formation, Labrador". *Canadian Mineralogist, Vol. 7, pp. 738-750, 1963.*—*K. L. Chakraborty.*
- (10) "Methods of identification of carbonate minerals". "Basudha",

Journal of the Dept. of Geological Sciences, Jadavpur University,  
Vol. IV, pp. 1-7, 1963.—*K. L. Chakraborty.*

### MATHEMATICS

#### Publications:

- (1) The wave resistance from the rate of the dissipation of energy. Jour. of sc. and engineering research, Vol. 7, part I, 1963.—*R. N. Bhattacharyya.*
- (2) The modification of the weier stress—the erdmann corner conditions in space navigation. AIAA journal vol. 2 no. 6, 1964.—*R. N. Bhattacharyya.*
- (3) A note on the deflection of a viscoelastic plate due to an impulsive load—a translation of the Asme—the jour. of the appl. mechanics, vol. 31, series (e) 4, December, 1964.—*S. K. Sircar.*
- (4) A note on the torsional vibration of a thin rod of the voigt material—me'chanique appliquee; tome 1-4, 1964.—*S. K. Sircar.*
- (5) The transient torsional couple applied on the circular surface of a semi-infinite viscoelastic medium—bulletin de l'academie vol. xii 7, 1964.—*S. K. Sircar.*
- (6) The disturbances in a semi-infinite viscoelastic medium due to the transient tangential force on the plane boundary—the Ind. jour. of mechanics and mathematics, vol. 2 no. 2, 1964.—*S. K. Sircar.*
- (7) Note on the displacement in an incompressible hollow cylinder of the viscoelastic material of the general linear type—the Ind. jour. of mechanics and mathematics.—*S. K. Sircar.*
- (8) A note on the stress waves in a rod of the general type of the linear substance—the Ind. jour of the theoretical physics.—*S. K. Sircar.*
- (9) The temperature and the velocity profiles along a vertical hot plate in a compressible fluid, considering the effect of the bouyancy—AIAA jour. vol. 2 no. 2, February, 1964.—*S. Ghosal.*
- (10) A note on stresses in a rotating shaft of a piezoelectric material—atti della academia delle scienze di torino, vol. 98, 1963, pp. 1-9.—*D. K. Sinha.*
- (11) A note on mechanical displacements of a piezoelectric cylinder acted upon by an impulsive electrical field—jour. sc. engg. res. vol. viii (part I, pp. 163-168), 1963.—*D. K. Sinha.*
- (12) A note on small deformations of a transversely isotropic mangeto-strictive wire—appl. sc. res., 1963, vol. 10, pp. 316-320.—*D. K. Sinha.*

- (13) The stresses produced by a normal load moving over a transversely isotropic layer of the ice lying on a rigid foundation—pure and the applied geophysics vol. 60-1, p. 80-93.—*A. Mukhopadhyaya.*
- (14) The stresses produced by a normal load moving over a transversely isotropic ice sheet floating on the water—the national Institute of sciences in India—*A. Mukhapadhyaya.*
- (15) The stress produced by a normal load moving over the surface of a sandy soil—the geophysics.—*A. Mukhapadhyaya.*
- (16) An alternative ship model—the int. cong. on the wave resistance at the Annborh, Michigan, the USA, 1963.—*R. N. Bhattacharyya.*
- (17) A modification of the erdman—weierstress corner condition in the space navigations—the AIAA jour. vol. 2-6, 1964.—*R. N. Bhattacharyya & M. Bhattacharyya.*
- (18) An analytical thrust—steering program for the optimal transfer between the circular orbits under small thrust acceleration—AIAA—*R. N. Bhattacharyya & J. Bhattacharyya.*
- (19) A shallow water effect on the wave resistance lift and moments on a ship—the 9th cong. of theo. and app. mech., Cawnpore, 1964.—*R. N. Bhattacharyya.*
- (20) Effect of radiation on the temperature distribution of a mass of gas in convective equilibrium—the 9th cong. of the theo. and the app. mech., Cawnpore, 1964.—*R. N. Bhattacharyya & S. Maitra.*
- (21) Boundary layer over a rotating disc—the 9th cong. of theo. and app. mech., Cawnpore, 1964.—*R. N. Bhattacharyya & K. Datta.*
- (22) Note on the transient disturbance due to finite sources in an elastic halfspace—the Ind, jour. of mech. and maths vol. I, 1963.—*M. Mitra.*
- (23) Propagation of explosive sound in a layered liquid—the jour. acost. soc. of America, vol 36, 1964.—*M. Mitra.*
- (24) The disturbance produced in an elastic halfspace by an impulsive normal pressure—the proc. camb. phil. soc. vol. 60, 1964.—*M. Mitra.*
- (25) Slow steady flow of a viscous liquid through a circular tube with axial roughness—the Ind. jour. mech. and maths vol. I-1, 1963.—*S. R. Khamrui.*
- (26) Note on mechanical displacements of a peizoelectric cylinder acted upon by an impulsive electric field—the jour. of sc. and engg. research vol. 7-1, 1963.—*D. K. Sinha.*
- (27) Note on the transient performance of a peizoelectric bar of a polarized ceramic with heat influx at one end—the Ind. jour. of mech. and maths vol. 2-1, 1964.—*D. K. Sinha.*

- (28) Note on the small deformations of transversely isotropic magnetostriuctive wire—the app. sc. research vol. 10b, 1963.—*D. K. Sinha*.
- (29) On the plane waves in the thermoviscoelastic solids deformed by magnetic fields—pure and the app. geophysics vol. 57-app. 1, 1964.—*D. K. Sinha*.
- (30) Exact solution of the source problem for a finite 3-dimensional source—the geofisica pura applicata vol 56, 1963-3, pp. 31-38.—*M. Mitra*.
- (31) Wave resistance from the rate of the dissipation of energy, some cases of uniformity moving point disturbances—the jr. of sc. and engg. vol. 2-1, 1963.—*R. N. Bhattacharyya*.
- (32) A note on the stresses in a rotating shaft of the piezoelectric material—the atti della academia delle science di torino vol. 98, pp. 9, 1963.—*D. K. Sinha*.
- (33) A note on the static deformations of a radially polarized rotating cylindrical shaft of the bariuntitama with a transverse isotropy—the Ind. jr. mech. and maths vol. 1-2, pp. 2-6, 1963.—*D. K. Sinha*.

#### PHYSICAL CHEMISTRY

##### Research:

- (1) Studies on the polyelectrolytic character of gums and their complex acids—*S. N. Mukherji*.
- (2) Polarographic and light scattering studies on gum acids, with a view to determining their molecular shape, size and weight.—*S. N. Mukherji*
- (3) High frequency titration—characteristics of the titration cells.—*S. & Mukherji*.
- (4) Electrochemistry of nonaqueous solutions.—*M. N. Das*.
- (5) Kinetics of some chemical reactions in solution, and the effect of different physical factors, such as temperature, ionic strength, etc., on these.—*M. N. Das*.
- (6) Resonance energy transfer in quenching of fluorescence.—*K. K. Rohatgi*.
- (7) Photochemical reactions in chromous and chromic systems.—*K. K. Rohatgi*.
- (8) Electrokinetics of protein solution.—*D. K. Chattoraj*.
- (9) Molecular weight of biological proteins by the light scattering method.—*D. K. Chattoraj*.

##### Publications:

- (1) Light scattering studies in solutions of guar gum.—*Journal Indian Society*, 1963, I, 413.—*S. K. Dev & S. N. Mukerji*.

- (2) Light scattering by catechuic acid solution. *Journal Indian Chemical Society*, 1963, 40, 811.—*S. N. Mukerji & J. N. Chakravarty*.
- (3) High frequency titration cells part I—electrode distance. *Journal Indian Chemical Society*, 1963, 40, 643.—*S. N. Mukerji & J. N. Chakravarty*.
- (4) Ditto part 2—diameter of the cell. *Journal India Chemical Society*, 1964, 41, 725.—*J. N. Chakravarty & S. N. Mukerji*.
- (5) Physicochemical detection of gonadotropins—prolan A and B—*Journal Indian Chemical Soc.*, 1963, no. 830.—*S. Raychoudhury & S. N. Mukherjee*.
- (6) Investigations on the reaction of mxylohydroquinone with d galactose and d glucosamine—spectrophotometric method—*Journal Indian Chem., Society*, 1963, 40, 830.—*S. N. Sanyal, R. N. Ray & S. N. Mukerji*.
- (7) Interaction of mxylohydroquinine and D—galactose and D-glucose *Journal Indian Chemical Society*, 1964, 41, 187.—*S. N. Sanyal, S. Ray Chaudhury & S. N. Mukherji*.
- (8) Methoxymercuration of methacrylic acid and cinnamic esters and cinnamaldehyde—*Tetrahedron*, 1963, 19, 1981.—*A. K. Chaudhury, K. L. Mallik & M. N. Das*.
- (9) Alkalinehydrolysis of acrylic and methacrylic esters in 60 percent aqueous methanol—*Naturwissen*, 1964, 51, 37.—*K. L. Mallik & M. N. Das*.
- (10) Standard potentials of Ag-AgCl and Ag-AgBr electrodes in ethyleneglycol and propyleneglycol, at 30°C, and related thermodynamic quantities—*Naturwissen*, 1964, 9, 87.—*K. K. Kundu & M. N. Das*.
- (11) Autoprotolysis constant of ethyleneglycol and propyleneglycol and dissociation constants of some acids and bases in the solvent, at 30°C—*Journal Chemical Engineering Data*, 1964, 9, 82.—*K. K. Kundu & M. N. Das*.
- (12) The influence of urea on the fluorescence of aqueous dye solution—*Journal Physical Chemistry*, 1963, 67, 2844.—*K. K. Rohatgi & G. S. Singhal*.

#### ORGANIC CHEMISTRY

##### Publications:

- (1) Stobbe condensation with glutaric ester—*Science and Culture*, 29, 211, 1963.—*A. Chatterji & S. Banerji*.
- (2) Studies in dieckmann cyclisation part 3; cyclisation of trimethyl

- 3 phenylpentane-1, 2, 5-tricarboxylate—*Science and Culture*, 29, 51, 1963.—*R. Biswas*.
- (3) Synthesis of 7-isopropyl 6-methoxy-2-oxo-2, 3, 4, 9, 10, 11-hexahydrophenanthrene—*Science and Culture*, 29, 514, 1963.—*A. K. Ghose*.

## FACULTY OF ARTS

## ECONOMICS

## Research:

- (1) A project for inter-regional input-output analysis.—*A. Ghosh*.
- (2) A doctoral research thesis on "Direct Taxation and Economic Development in India".—*H. Banerjee*.

## Publications:

## (a) BOOKS &amp; MONOGRAPHS:

- (1) Survey of Small Engineering Units in Howrah (Published by the Reserve Bank of India).—*H. Banerjee*.
- (2) Union Budgets and Prices (Asia Publishing).—*A. Ghosh*.
- (3) Efficiency in location and interregional flows (in Press, North-Hall and Publishing Co.).—*A. Ghosh*.
- (4) Immigration and its impact on the social and economic life in the city of Calcutta.—*A. Ghosh, R. R. Das & B. Sen*.
- (5) Study of East Pakistan refugee settlement at Jadavpur.—*A. Ghosh & R. R. Das*.
- (6) A growth model of the Calcutta metropolitan area (communicated)—Census monographs.—*A. Ghosh*.

## (b) PAPERS:

- (1) Traffic forecast for the port of Calcutta (communicated to Calcutta Port Annual).—*H. Banerjee*.
- (2) An interregional inter-industrial model for India (4th Economic Conference, Hyderabad) 1963).—*A. Ghosh*.
- (3) The evolution of Planning technique, and organization in India—Economics of Planning, 1963.—*A. Ghosh*.
- (4) Comments on the 4th five year plan—Yojana Planning Commission 1963.—*A. Ghosh*.

- (5) Interdependence of Capital in input-output framework—*Economic Weekly*, 1963.—*A. Ghosh*.
- (6) Changing structure of liabilities of Indian Banks —*Banker*, August, 1963.—*Mrs. M. Basu*.
- (7) "Banking in a developing economy" and case for insurance of Bank deposits—Collection of Papers published by Asia Publishing Co. 1963.—*Mrs. M. Basu*.
- (8) Discount rate policy in India—Conference No., Indian Economic Conference, 1963.—*Mrs. M. Basu*.

## INTERNATIONAL RELATIONS

- (1) Diplomatic Techniques (China)—Periodical: Seminar (Monthly) October, 1963.—*B. Mitra*.

## Research:

- (1) "Growth of Modern Socialism"—*Quest*, Spring, 1963.—*S. Bandyopadhyaya*.
- (2) "Bases of the Sino-Soviet conflict and South Asia"—*International Studies*, April, 1965 (accepted).—*J. Bandyopadhyaya*.

## Monographs:

- (1) A new Policy for Tibet, 1963.—*J. Bandyopadhyaya*.
- (2) Why China has attacked India, 1963.—*J. Bandyopadhyaya*.

## Publications:

- (1) Principles of Political Science: (In collaboration with two authors), London: Macmillan, 1963. pp. 409.—*J. K. Ray*.

## HISTORY

## Publications:

- (1) The Haft Anjuman of Udairaj Munshi—Published in two issues of *Bengal Past and Present* 1963, 1964.—*J. N. Sarkar*.
- (2) Medieval Indian Historiography. Quarterly Review of Historical Studies Vols. 1-2, 1963-64.—*J. N. Sarkar*.
- (3) Private Trade in Seventeenth Century India. Read at the Poona Session of the Indian History Congress 1963.—*J. N. Sarkar*.

- (4) Sir Jadunath Sarkar and his historical writings. Journal of Bihar Research Society, 1960 (Published in 1963).—*J. N. Sarkar.*
- (5) The Attribution of Mahadeva Coins. 26th International Congress of Orientalists, Delhi, January, 1964.—*B. Lahiri.*
- (6) Malay Peninsula: Early Indian Influence. Indo-Asian Culture, July, 1963.—*B. K. Majumdar.*
- (7) Corpus of Bengal Inscriptions Vol. I (Book).—*S. K. Maity & R. N. Mukherjee.*
- (8) Cliver Cromwell and the English Parliament, 1653-58.—*A. Mukherjee.* Bangla Sahityer Itihase Mrityunjoy Vidyalankarer Sthan (Bengali) Parichaya November, 1963. The Petition of Right 1628. Calcutta Review, August, 1963.—*A. Mukherjee.*
- (9) Social Altitude as Reflected in Bengali Literature (800-57). Summer School, Kodaikanal, May-June, 1963.—*N. S. Bose.*
- (10) Indigo Plantation—A source of oppression. Bengal Past and Present. July-December 1963.—*A. De.*

## PHILOSOPHY

## Research:

- (1) The concept of subjectivity—*K. Banerjee & K. Roy.*
- (2) The concept of the navyanaya—*K. Banerjee.*
- (3) A book on the problem of induction.—*P. K. Sen.*
- (4) The logical constants—*P. K. Mukerji.*
- (5) Some aspects of Moore's philosophy—*J. Shaw.*
- (6) The advanced modern and Indian logic—*J. Shaw.*

## Publications:

- (1) The Indian Philosophical Quarterly—*K. K. Banerjee.*
- (2) Humes Bild von Meuscheu (book) 1963.—*R. A. Mall.*
- (3) Definitive definition of Parasion (paper)—*K. K. Banerji.*
- (3) Definitive definition of Parasion (paper)—in the American Encyclopaedia of Philosophy, 1963.—*K. K. Banerji.*
- (4) Meaning and truth—Advanced centre journal, Visvabharati, 1963.—*K. K. Banerjee.*
- (5) Analytic view of curtailment—Journal of the Indian Academy, 1963.—*P. K. Sen.*
- (6) Russell's theory of descriptions—Journal of Philosophical Association—*J. Shaw.*

## SANSKRIT

## Publications:

- (1) Role of Abhidhawnta vyanjana (paper presented at the International Congress of Orientalists) 1963.—*R. Mukherjee.*
- (2) Vartamana Bharatam (a Sanskrit translation on Swami Vivekananda's Bengali work entitled, 'Vartamana Bharat'), 1963.—*S. Goswami.*
- (3) Swamijir Hindurastrachinta (a Bengali translation on the select passages of Swamiji's works and lectures), 1963.—*S. Goswami.*
- (4) Saradiya Durgapuja (published in the Swastika), 1963.—*S. Goswami.*
- (5) Sitanirvasana (published in the Devajan), 1963.—*S. Goswami.*
- (6) Philosophy of logical construction (book published by Sanskrit Pustaka Bhandara), 1963.—*H. K. Ganguly.*
- (7) Vivekananda vedanta of Bharatiya Samaj (Published in Prabandha Patrika), 1963.—*H. K. Ganguly.*
- (8) Sahitya o Sadrasya (Antarjatik), 1963.—*H. K. Ganguly.*
- (9) Madhavadarshane Bhaktitattvam (a paper submitted to the International Congress of Orientalists), 1963.—*C. Chatterjee.*
- (10) Rutasya Panthak (published in the Devayani), 1963.—*N. K. Basu.*
- (11) Rigveder Sauradevamandali of Suryopasana (published in the Sahityer Khabara), —*B. Bhattacharyya.*
- (12) Shakespeare of Sanskritasahitya (published in the Sahityer Khabara) 1963.—*B. Bhattacharyya.*
- (13) Vedic grammar (a commentry on Panini's rules), —*B. Bhattacharyya.*

Annexure—D

PRIZES AND MEDALS FOR THE YEAR 1963

*Rector's Prize* for the best all-around Graduate of the year for academic and extra-academic attainments.

*S. N. Bando Memorial Gold Medal*, for securing the highest marks in all the the courses of the Master of Science Examination.

*University Medal*, for standing First in Physics at the Master of Science Examination, and, *Dr. D. M. Bose Seventieth Birth Commemoration Medal*, for standing First in the special papers "Nuclear Physics" and "Cosmic Rays", at the Master of Science Examination, awarded to

DIPAK CHATTERJEE

*Alumni Association Medal*, for the best all-around Engineering Graduate of the year, awarded to

SUBIR KUMAR DATTA (Mechanical Engineering)

*Satish Chandra De Gold Medal* for securing the highest marks in all the courses of the Master of Arts Examination, and

*University Medal*, for standing First in Sanskrit at the Master of Arts Examination, awarded to

KALI PRASAD SINHA

*Puspa Roy Gold Medal*, for securing the highest marks among the girl students in all the courses of the Master of Arts Examination, and

*University Medal*, for standing First in Philosophy at the Master of Arts Examination, awarded to

BANDANA DATTA

*Benoy Sarkar Memorial Gold Medal*, for securing the highest aggregate of marks in all the courses of the Bachelor of Engineering Examination, *University Medal*, and *Kiron Chandra Roy Memorial Medal*, for standing

( 61 )

First in Tele-Communication Engineering at the Bachelor of Engineering Examination, and

*Uma Rani Ghosh Medal*, for securing the highest marks in the paper 'Industrial Electronics and Servo-Mechanism', awarded to

LAKSHMI NARAYANA GOYAL

*Arun Kumar Bandyopadhyay Memorial Medal*, for securing the second highest marks in all the courses of the Bachelor of Engineering Examination.

*University Medal* and *Srish Chandra Bir Pratap Medal*, for standing First in Mechanical Engineering, at the Bachelor of Engineering Examination and

*M. N. Chakraborty Memorial Medal*, for the graduate of the year who had secured the highest percentage of aggregate marks at the Intermediate Engineering Examination, awarded to

SUBRATA KUMAR CHAKRABARTI

*University Medal*, for standing First in Chemical Engineering, at the Master of Engineering Examination, awarded to

SANKAR NARAYAN MUKHOPADHYAY

*University Medal*, for standing First in Electrical Engineering at the Master of Engineering Examination, awarded to

PRASANTA KUMAR MUKHERJI

*University Medal*, for standing First in Tele-Communication Engineering at the Master of Engineering Examination, awarded to

MANISH KUMAR MUKHOPADHYAYA

*University Medal*, for standing First in Mechanical Engineering at the Master of Engineering Examination, awarded to

ABANIMOHAN DAS

*University Medal*, for standing First in Civil Engineering at the Master of Engineering Examination, awarded to

MRINMOY DAS

*University Medal*, for standing First in Technology at the Master of Technology Examination, awarded to

SANKAR KUMAR MUKHERJEE

*University Medal*, for standing First in Mathematics at the Master of Science Examination, awarded to

AFTABUR RAHIM

*University Medal*, for standing First in Chemistry at the Master of Science Examination, awarded to

KUMAR KANTI MAHALANABIS

*University Medal and Pramatha Nath Bose Memorial Medal*, for standing First in Applied Geology at the Master of Science Examination, awarded to

UDAYSANKAR MUKHOPADHYAY

*T. N. Deb Memorial Medal* for standing First in the paper "Metallic Minerals" at the Master of Science Examination in Applied Geology, awarded to

SAMIR KUMAR MUKHERJI

*Jogendra Nath Das Memorial Medal*, for standing First in English at the Master of Arts Examination, awarded to

SUNANDA CHAUDHURI

*Bepin Chandra Pal Memorial Medal*, for standing First in International Relations at the Master of Arts Examination, awarded to

BALADAS GHOSHAL

*Hirendra Nath Datta Memorial Medal*, for standing First in Essay at the Master of Arts Examination in Comparative Literature, awarded to

NAGENDRA NATH GUCHHAIT

*University Medal and Sibapriya Chatterjee Memorial Medal*, for standing First in Physics at the Bachelor of Science Examination, awarded to

CHAND ROY CHOUDHURI

*University Medal* for standing First in Chemistry at Bachelor of Science Examination, awarded to

ASOK KUMAR SARKAR

*University Medal and Pramatha Nath Bose, Bronze Medal*, for standing First in Geological Sciences at the Bachelor of Science Examination, awarded to

SUMIT KUMAR RAY

*University Medal*, for standing First in Economics at the Bachelor of Arts Examination, awarded to

JABA GUHA

*University Medal and Jatindra Krishna Medal* for standing First in Chemical Engineering at the Bachelor of Engineering Examination, awarded to

DIPAK ROY

*University Medal and Ashoke Memorial Medal*, for standing First in Electrical Engineering at the Bachelor of Engineering Examination, and

*Barindra Memorial Medal*, for standing First in the subjects "Electric Power Transmission" and "Electric Power Distribution", at the Bachelor of Engineering Examination, awarded to

BARUN KUMAR DE

*University Medal and S. N. Bando Memorial Gold Medal*, for standing First in Civil Engineering at the Bachelor of Engineering Examination awarded to

SATYEN BHAUMIK

*Sudhakar Barman Smriti Medal*, for standing First in the paper "Industrial Chemistry" at the Bachelor of Engineering Examination, awarded to

RATHINDRA NATH GHAR

*Sarada Gold Medal*, for securing the highest marks in the paper "Public Health", at the Bachelor of Engineering Examination in Civil Engineering awarded to

MANAS BANDYOPADHYAY

*M. N. Chakraborty Memorial Medal*, for securing the highest marks in the paper "Electric Power Generation", at the Bachelor of Electrical Engineering Examination, and

*Subodh Kumar Basu Medal*, for securing the highest marks in sessional work and the practical examination at the Electrical Engineering Degree Examinations, awarded to

PRASUN KUMAR DE

*K. P. Das Gupta Memorial Medal*, for securing the highest marks in the Modern World Paper, awarded to

PRASANTA KUMAR CHAKRABARTI (Mechanical Engg.)

*Annexure E*

LIST OF SUCCESSFUL CANDIDATES AT THE  
DOCTOR OF PHILOSOPHY EXAMINATION, 1963

**Science:**

Sl. No.	Names
1.	Gollapudy Subrahmanyam
2.	Ramchandra Shankar Bhute
3.	Subhas Chandra Datta
4.	Bimanesh Sur
5.	Dipti Deb
6.	Arun Kumar Chaudhuri
7.	Tara Ghosh
8.	Ashoke Kumar Bose

**Arts:**

1. Tarapada Mukhopadhyay
2. Samir Ranjan Majumdar
3. Debranjana Mukhopadhyay
4. Bishnupada Sinha

MASTER OF ENGINEERING EXAMINATION

**Chemical Engineering:**

FIRST CLASS  
(In order of merit)

1. Sankar Narayan Mukhopadhyay

**Electrical Engineering:**

FIRST CLASS  
(In order of merit)

1. Prasanta Kumar Mukherji
2. Sujay Kumar Basu
3. Sanjoy Kumar Basu
4. Sunil Ranjan Bandyopadhyay
5. Pradip Kumar Bhattacharjee

Sl. No. Names

**Tele-Communication Engineering:**FIRST CLASS  
(In order of merit)

1. Manish Kumar Mukhopadhyaya
2. Parimal Kumar Chaudhuri

**Mechanical Engineering:**FIRST CLASS  
(In order of merit)

1. Abanimohan Das
2. Krishnanath Chakrabarti
3. Bireshwar Prasad Ghosh
4. Ajit Kumar Pal

**Civil Engineering:**FIRST CLASS  
(In order of merit)

1. Mrinmoy Das

SECOND CLASS  
(In order of merit)

2. Girija Bhusan Chakravorty
3. Ratan Kumar Das Gupta

**MASTER OF TECHNOLOGY EXAMINATION****Technology:**FIRST CLASS  
(In order of merit)

1. Sankar Kumar Mukherjee (Mukhopadhyay)
2. Bhaskar Bandyopadhyay
3. Prafull Chaitanyalal Vin

**MASTER OF SCIENCE EXAMINATION****Mathematics:**

Sl. No. Names

FIRST CLASS  
(In order of merit)

1. Aftabur Rahim
2. Swapna Maitra
3. Santipada Basu
4. Baishnab Charan Debnath
5. Paritosh Nandi
6. Krishna Dutta
7. Prabhas Chandra Jana
8. Ajit Kumar Datta
9. Netai Chand Chattopadhyay

SECOND CLASS  
(In order of merit)

10. Balailal Bandyopadhyay
11. Banamali Das
12. | Debabrata Gupta  
| Kalyan Kumar Das Gupta
14. Mihir Baran Mukhopadhyay
15. Deba Prasad Mandal
16. | Prasanta Kumar Chakrabarti  
| Pranati Sil
18. Pradip Kumar Bandyopadhyay
19. Lalmadhab Mahata
20. Lakshmi Narayan Ray
21. Kalyan Kumar Choudhury
22. Kalisankar Ray

**Physics:**FIRST CLASS  
(In order of merit)

1. Dipak Chatterjee
2. Manjula Roychowdhury (née Basu)
3. Buddhadeb Sarkar

Sl. No. Names

SECOND CLASS  
(In order of merit)

4. Sushendra Kumar Dey
5. Manju Ghosh
6. Subrato Chattopadhyay
7. Ranjan Kumar Das Gupta
8. Sisir Ranjan Majumdar
9. Aloka Ghose
10. Amitava Chatterji
11. Nirode Govinda Sinha

**Chemistry:**FIRST CLASS  
(In order of merit)

1. Kumar Kanti Mahalanabis

SECOND CLASS  
(In order of merit)

2. Sumanta Kumar Sanyal
3. Arun Kumar Guha Thakurta
4. Apurba Kanti Ray

**Applied Geology:**FIRST CLASS  
(In order of merit)

1. Udaysankar Mukhopadhyay
2. Samir Kumar Mukhopadhyay
3. Abhijit Mukhopadhyay
4. Ananda Kumar Chakrabarti
5. Somendranath Bandopadhyay
6. Saktibrata Chakrabarti

SECOND CLASS  
(In order of merit)

Sl. No. Names

7. Silabhadra Sen
8. Rabindranath Pal
9. Ashoke Kumar Paul
10. Sunil Kumar Chakrabarti
11. Timir Baran Hore
12. Devasis Mazumdar
13. Barid Baran Mukherjee
14. Bidyut Kumar Roy
15. Amiyanath Adhya

## MASTER OF ARTS EXAMINATION

**English:**SECOND CLASS  
(In order of merit)

1. Sunanda Chaudhuri
2. Sheila Das
3. Gouri Paul
4. Mohadeb Kumar Ghosh
5. Chitra Datta
6. Partha Kumar De
7. Pranati Basu
8. Arunabha Barua
9. Siddheswar Mitra
10. Atul Prasad Datta  
Surinder Lal Chaudhury
12. Kanai Lal Das
13. Malabika Sarkar
14. Gouri Choudhury (née Bhaduri)
15. Suchandra Bose
16. Manjusree Mukhopadhyay
17. Sreelata Bose
18. Banasri Kar
19. Chitrasena Majumdar
20. Ajoy Kumar Goswami

Sl. No.	Names
21.	Dolly Datta
22.	Amita Deb
23.	Lalita Lakshmanrao Guzar
24.	Sucharita Chakraborty (née Chaudhuri)
25.	Ruby Chaudhuri Mridula Deb
27.	Krishnendra Mohan Ghosh
28.	Esha Datta
29.	Nandita Niyogi Ivaturi Veereswara Sarma

**Bengali:**

SECOND CLASS  
(In order of merit)

1. Kiran Sankar Ray
2. Pratima Chattopadhyay
3. Kanika Bandyopadhyay (Banerjee)
4. Tarunima Sen
5. Bani Sen (née Basu)
6. Padma Gangopadhyay
7. Tripti Sen Gupta (née Mukherjee)
8. Manjusri Mukhopadhyay
9. Bithika Mookerjee (née Bhattacharyya)
10. Chitrita Bandyopadhyay
11. Krishna Ray
12. Purnima Biswas
13. Sraddha Chakrabarti
14. Subha Bhattacharyya  
Manika Dhar  
Sulata Panda
17. Nandita Kar
18. Dipika Sarkar
19. Anubha Mukhopadhyay
20. Arati Deb Sarkar
21. Mira Goswami
22. Nilima Basu
23. Sabita Basu

**Sanskrit:**

Sl. No.	Names
FIRST CLASS (In order of merit)	

1. Kali Prasad Sinha
2. Pabitra Kumar Bhattacharyya
3. Maya Chakravorty
4. Manika Datta

SECOND CLASS  
(In order of merit)

5. Sibani Das Gupta
6. Sukla Basu
7. Mira Guha
8. Hrishikesh Jana
9. Ranajit Kumar Tewary
10. Tarak Nath Chattopadhyay
11. Bani Bhattacharjee
12. Gita Chakrabarti
13. Ranajit Kumar Bhattacharyya
14. Santi Lata Basu  
Bela Chakrabarti
16. Anjali Sarkar
17. Bibha Bati Sardar
18. Anil Krishna Ray
19. Anjali Saha

**Philosophy:**

FIRST CLASS  
(In order of merit)

1. Bandana Dutta

SECOND CLASS  
(In order of merit)

2. Kanailal Jana
3. Anibha Mukhopadhyay
4. Tripti Kana Nag

Sl. No.	Names
5.	Pratima Nag
6.	Debjani Guha
7.	Jharna Chakrabarti
8.	Pinaki Bagchi
9.	Gopika Kanta Datta
10.	Hemanta Kumar Maiti
11.	Bandana Deb (née Chanda)
12.	Jashada Nanda Datta
13.	Krishna Chowdhury
14.	Ajit Kumar Paria
15.	Santi Ghosh
16.	Tapati Sen
17.	Dhirendra Nath Mondal
18.	Kamala Datta (née Guha Thakurta)
19.	Minati Pal
20.	Pratima Basu
21.	Gouri Purkayastha

SECOND CLASS  
(In order of merit)

22.	Krishna Basu
23.	Jharna Ghosal
24.	Ambarish Chandra Roy
25.	Adhir Kumar Biswas
26.	Jharna Kanungo
27.	Sandhya Sen Gita Chakraborty
29.	Monjuly Choudhury
30.	Renuka Ghosal

Economics:

SECOND CLASS  
(In order of merit)

1.	Arindrajit Lahiri
2.	Dhruba Ranjan Mukhopadhyay
3.	Ajit Kumar Nag
4.	Debi Prosad Chattopadhyay
5.	Gouri Dey

Sl. No.	Names
6.	Ratan Kumar Ghoshal
7.	Rabeya Choudhury
8.	Hironmoy Acharjya
9.	Sanjit Kumar Chakraborti
10.	Sakti Pada Das
11.	Sibani Sen Gupta
12.	Jharna Bhaumik
13.	Ashis Kumar Chatterjee
14.	Nandita Chattopadhyay
15.	G. L. Narasimhan Jagadish Chandra Guria
17.	Latika Gupta
18.	Indrajit Roy
19.	Abhijit Datta Mati Lal Roy

History:

SECOND CLASS  
(In order of merit)

1.	Saroj Kumar Pal
2.	Malabika Mitra
3.	Nandini Sen
4.	Lakshman Chandra Paul
5.	Manisha Sen Gupta
6.	Ratna Ghosh
7.	Sudhendu Kumar Das
8.	Bilu Sen Gupta
9.	Samarendra Nath Dhar
10.	Chandana Nag
11.	Nanda Lal Bhunia
12.	Sushil Chandra De
13.	Sheila Ghosh (née Sen)
14.	Basanti Sinha
15.	Chhanda Banerjee (Bandyopadhyay)
16.	Prashanta Kumar Chattopadhyaya Anjali Mazumdar
17.	Paritosh Mitra
18.	Minati Shome

Sl. No.	Names
19.	Srikrishna Mandal
20.	Mridula Sarkar
21.	Rabindra Bijay Naha Biswas
22.	Bharati Sarkar
23.	Niren Chandra Sinha
24.	Chhandita Ray
26.	Bani Sen
26.	Ranjit Bhattacharjee
27.	Ruby Sengupta (née Raychaudhuri)
28.	Nandita Gangopadhyay (Ganguli)
29.	Asis Kumar Ghosh
30.	Lina Ray

**International Relations:**

SECOND CLASS  
(In order of merit)

1. Baladas Ghoshal
2. Mana Ranjan Josse
3. Apratim Mukhopadhyay  
Kalyani Majumdar (née Pait)
5. Gopa Chakraborty
6. Nandini Sen Gupta
7. Urmimala Choudhury
8. Indu Bajaj
9. Radha Kanta Das
10. Debabrata Ray
11. Satyendra Nath Das
12. Vasanti Joshi
13. Bikash Roy Choudhury
14. Ashima Mazumder  
Ena Mazumder  
Bandana Chaudhuri

**Comparative Literature:**

SECOND CLASS  
(In order of merit)

1. Manjula Mitra
2. Kalpana Acharya
3. Soumyabrata Bhattacharjya

Sl. No.	Names
4.	Nagendra Nath Guchhait
5.	Namita Sen
6.	Bandana Das Gupta
7.	Manju Saha
8.	Ramani Mohon Sen Gupta Suhrita Sen
10.	Sudhin Kumar Sarkar

**BACHELOR OF SCIENCE FINAL EXAMINATION****Mathematics (Honours):**

SECOND CLASS  
(In order of merit)

1. Madhusudan Bhattacharyya
2. Kalyansri Ghosh
3. Rana Krishna Majumdar
4. Dakshina Ranjan De
5. Prateep Sen
6. Arabinda Kumar Mitra
7. Dipak Ghosh

PASS

8. Rajendra Singh
9. Swadesh Kumar Kakkar

**Physics (Honours):**

FIRST CLASS  
(In order of merit)

1. Chand Roy Choudhuri

SECOND CLASS  
(In order of merit)

2. Sisir Kumar Dalapati
3. Krishna Kumar Gujadhur
4. Tapas Kumar Roy
5. Nilay Ranjan Bose
6. Samaresh Sen Gupta

Sl. No. Names

**Chemistry (Honours):**FIRST CLASS  
(In order of merit)

1. Asok Kumar Sarkar

SECOND CLASS  
(In order of merit)

2. Goutam Gupta
3. Rupak Dasgupta
4. Pradip Kumar Sen Gupta
5. Gopal Chandra Das
6. Shishir Kumar Ganguly
7. Kamal Kumar Bhattacharyya

PASS

8. Ranasinghe Wickramanayake
9. Nitish Kumar Bosu

**Geological Sciences (Honours):**FIRST CLASS  
(In order of merit)

1. Sumit Kumar Ray

SECOND CLASS  
(In order of merit)

2. Amarjyoti Chaudhuri
3. Prabir Kumar Pathak
4. Apurba Kumar Mallik
5. Alok Kumar Das
6. Sunil Bikash Dastidar
7. Bikram Sen
8. Samirendra Chandra Ray
9. Amal Das Gupta
10. Shyamal Ray Chaudhuri  
Kamalendu Majumdar
12. Dipak Kumar Chattopadhyay

Sl. No. Names

13. Pradip Kumar Das Gupta
14. Debdas Roy
15. Churamani Pal

PASS

16. Bhaskar Bandyopadhyay

**BACHELOR OF ARTS FINAL EXAMINATION****English (Honours):**SECOND CLASS  
(In order of merit)

1. Mainak Gupta
2. Kalyani Ray
3. Bishnu Pada Bhattacharyya

PASS

4. Manash Kanti Banerjee

**Bengali (Honours):**SECOND CLASS  
(In order of merit)

1. Chhayabithi Majumdar
2. Mamata Sanati
3. Prithwish Kumar Rai Chowdhuri
4. Manjusree Ghosh
5. Anil Kumar Saha
6. Lilamani Kanji

PASS

7. Manjulika Sen
8. Aloka Sen

**Sanskrit:**SECOND CLASS  
(In order of merit)

1. Shukdeb Bhowmick
2. Aparna Chakrabarti

**Economics (Honours):**

Sl. No. Names  
FIRST CLASS  
(In order of merit)

1. Jaba Guha

SECOND CLASS  
(In order of merit)

2. Jaya Chalam
3. Sibani Roy
4. Tonmoy Banerjee
5. Supratim Shome
6. Amulya Ratan Das
7. Joyita Dutta
8. Debjani Mitra

PASS

9. Renu Mitra

**History (Honours):**

SECOND CLASS  
(In order of merit)

1. Asim Mukhopadhyay
2. Sumitra Sen

PASS

3. Joysri Sen Gupta

**Political Science (Honours):**

SECOND CLASS  
(In order of merit)

1. Sarbani Roy Choudhury
2. Kawal Kaur
3. Alo Rudra
4. Puspa Raj Manandher  
Liliya Bhattacharyya

Sl. No. Names

6. Krishna Haldar
7. Pushpa Gidwaney
8. Utpal Kumar Gangopadhyay

PASS

9. Asim Ranjan Das Gupta
10. Gita Pal
11. Nilima Karmakar

**Comparative Literature (Honours):**

SECOND CLASS  
(In order of merit)

1. Chhanda Dey
2. Arati Bandopadhyay
3. Narayan Mukhopadhyay
4. Gita Guha

BACHELOR OF CHEMICAL ENGINEERING  
FINAL EXAMINATION

FIRST CLASS WITH HONOURS  
(In order of merit)

1. Dipak Roy

FIRST CLASS  
(In order of merit)

2. Mamata Dutta
3. Kanailal Ghosh
4. Ratna Das
5. Dhiren Sankar De
6. Alok Kumar Chakrabarti (1)
7. Satinath Bhattacharyya
8. Rathindra Nath Ghar
9. Sankarnath Chattopadhyay
10. Niranjana C. Thakkar
11. Shyamal Kumar Mukhopadhyaya
12. Partha Sarathi Ganguli

Sl. No.	Names
13.	Kalyan Kumar Das
14.	Sujit Kumar Saha
15.	Biswa Nath Chattopadhyay
16.	Jitendra Kumar Ghosal
17.	Ashok Majumdar
18.	Kamal Chandra Chakraborty
19.	E. V. Ganapathy
20.	Amitabha Sen
21.	Anjali Basu Arun Kumar Mishra
23.	Shakti Routh
24.	Dilip Kumar Sinha
25.	Samaresh Chakrabarti
26.	Amarendra Kundu
27.	Prabhat Kumar De

## SECOND CLASS

28.	Kallol Kumar Bose
29.	Haribilash Chakravarty
30.	Deba Prasad Dutta
31.	Subir Kumar Ray
32.	Chandan Mukherjee
33.	Prasanta Kumar Chakraborty
34.	Girdhari Lal Kuchroo
35.	Saurendra Mohan Chattopadhyay
36.	Dilip Kumar Biswas
37.	Yeswant Rao. U.
38.	Pranab Kumar Mukhopadhyay
39.	Bhabani Kumar Biswas Satya Ranjan Chattopadhyay
41.	Sanjay Kumar Sen Gupta
42.	Samarendra Nath Kar
43.	Chandidas Bhattacharyya
44.	Alok Kumar Chakrabarti (2)
45.	Prabir Kumar Datta
46.	Pranab Kumar Ghosh
47.	Samir Kumar Roy Chaudhury
48.	Asutosh Biswas

Sl. No.	Names
49.	Rabindra Kumar Chatterjee
50.	Pijush Kanti Maity
51.	Prithi Pal Singh
52.	Rajinder Singh Puri
53.	Benoy Krishna Bej
54.	Ranendra Nath Paul
55.	Rajat Chakravorty
56.	Dipak Kumar Sen Gupta
57.	Ajaya Kumar Ray
58.	Arup Kumar Chakraborty
59.	Mukur Bhattacharyya
60.	Ranjan Coomar Mookherjee

BACHELOR OF ELECTRICAL ENGINEERING  
FINAL EXAMINATIONFIRST CLASS WITH HONOURS  
(In order of merit)

1.	Barun Kumar De
2.	Prasun Kumar De
3.	Byomkesh Chakravarty
4.	Alok Kumar Ghosh

FIRST CLASS  
(In order of merit)

5.	Narayan Chandra Nayek
6.	Sekhar Nath Sengupta
7.	Ashit Kumar Das
8.	Prakash Chandra Kejariwal
9.	Prabhat Kumar Dutta
10.	Ashok Kumar Lamba
11.	Samirendra Nath Adhikari
12.	Sujit Ranjan Sen
13.	Santosh Kumar Chatterjee (Chattopadhyay)
14.	Prasanta Kumar Basak
15.	Saurabh Basu
16.	Om Narayan Bihani
17.	Bijan Kumar Das Gupta

Sl. No.	Names
18.	Amal Kumar Majumdar
19.	Makhan Lal Warikoo
20.	Anupam Chakrabarty
21.	Santi Prosad Roy Choudhury
22.	Dipak Ranjan Ghosh
23.	Amiya Kumar Mukhopadhyay
24.	Subimalchandra Chakladar
25.	Vijay Kumar Nagarkar
26.	Priya Brata Gangopadhyay
27.	Asish Bose
28.	Gautam Kumar Jha
29.	Santosh Kumar Guha
30.	Dipak Kumar De Pallab Kumar Khan
32.	Ranjan Sarkar
33.	Manoranjan Debbarma
34.	Syamal Kanti Datta
35.	Bhagabat Puthal
36.	Brij Nandan
37.	Om Prakash Sonthalia
38.	Parthasarathi Dutt Achintya Basu
40.	Pradip Kumar Ray
41.	Haradhan Sen Gupta
42.	Debabrata Ghosh
43.	Asim Kumar Bhattacharya
44.	Ram Chandra Mukherjee
45.	Nanda Dulal Chaudhuri
46.	Silsankar Rana
47.	Rajat Kumar Mukhopadhyay
48.	Arup Kumar Bhattacharya
49.	Awadhesh Kumar Verma
50.	Anjan Kumar Bhattacharjee
51.	Prabir Chakravarty
52.	Tapan Kumar Das
53.	Ranjan Das Gupta
54.	Sudarsan Kundu
55.	Utpal Sen Gupta
56.	Narayan Chandra Ray

Sl. No.	Names
57.	Dipti Kumar Ghosh Anjan Kumar Chaudhuri
59.	Sajal Kumar Bhadra Pranab Das Gupta Sudhir Chandra Bera
62.	Jnanananda Pal
63.	Sujit Chakraborty
64.	Barindra Kumar Chattopadhyay
65.	Subhransu Bikash Niyogi
66.	Tulsi Das Mehera
67.	Bholanath Manna
68.	Alokendu Sen
69.	Kripan Das Gupta
70.	Mohammad Samsuzzoha Mondal
71.	Bijoy Kumar Roy

## SECOND CLASS

(In order of merit)

72.	Gokal Nath Warikoo
73.	Chaman Lal Kak
74.	Srimanta Kumar Chakravarty
75.	Bimal Kumar Das
76.	Sambhu Chandra Bhattacharyya
77.	Pranay Kumar Banerjee
78.	Ramchandra Ghoshal
79.	Sunil Kumar Roy
80.	Habul Chandra Naskar
81.	Kasi Nath Hajra
82.	Asim Kumar Gangopadhyay
83.	Sagar Nil Barman Roy
84.	P. Venkateswarlu
85.	Kripashindhu Mitra
86.	Prasanta Kumar Chattopadhyay
87.	Dipak Banerji
88.	Kanwal Krishan
89.	Priya Kanti Das
90.	Shyamal Kanti Bose

BACHELOR OF TELE-COMMUNICATION ENGINEERING  
FINAL EXAMINATION

Sl. No. Names  
FIRST CLASS WITH HONOURS  
(In order of merit)

1. Lakshmi Narayana Goyal

FIRST CLASS  
(In order of merit)

2. Shibani Dutt
3. Om Prakash Rustogi
4. Siddhartha Mukhopadhyay
5. Bimalendu Konar
6. Ratan Kumar De
7. | Manujendra Nath Roy  
| Asish Das Sarma
9. Asit Ranjan Chaudhuri
10. Jyotirindra Banerjee
11. | Chanchal Basu  
| Abani Karmakar
13. Ruby Datta
14. Benimadhab Chanda
15. Rameswar Basak
16. Santidev Dutta
17. Diptendra Narayan Deb
18. Tapan Chandra Gupta
19. Aditya Chaudhuri
20. Malay Kumar Chattopadhyay
21. Ranjit Chakraborty
22. Pratyush Kanti De
23. Ghanasyam Adhikari
24. Sailapati Majumdar
25. Shahedul Ansar
26. Sanchita Nag
27. Sunil Kumar Banerjee
28. Nikhil Ranjan Nath
29. Shib Shanker Dey
30. Subrata Kumar Ghosh
31. Rabindra Nath Sen

BACHELOR OF MECHANICAL ENGINEERING  
FINAL EXAMINATION

Sl. No. Names  
FIRST CLASS WITH HONOURS  
(In order of merit)

1. Subrata Kumar Chakrabarti
2. Sankar Chakrabarti
3. Sudhamaya Panigrahi

FIRST CLASS  
(In order of merit)

4. | Niharendu Pal  
| Biswanath Mukhopadhyay (I)
6. Pranabesh De Choudhury
7. Prasanta Kumar Chakrabarti
8. Bhaskar Sen
9. Bhogilal C. Mehta
10. Somendranath Sengupta
11. Subir Kumar Datta
12. Mahabir Prasad Keshan
13. Narain J. Lilaram
14. Samarendranath Mukhopadhyay
15. Dipak Kumar Das
16. Alope Gangopadhyaya
17. Ranendranarayan Basu
18. Kanaidas Chaudhuri
19. Pranab Kumar Das
20. Arup Ranjan Ray
21. Rathindra Lal Basak
22. Pradip Kumar Mukhopadhyay
23. Malay Kumar Bhattacharyya
24. Saumendra Nath Pal
25. Krishna Kumar Gupta
26. Bankim Chandra Majumdar
27. Biman Behari Guha Thakurta
28. Subhas Chandra Bhattacharya
29. Abdulhusein M. Mogul
30. Dol Gobinda Ray

Sl. No.	Names
31.	Partha Pratim Roy
32.	Dipendu Raha
33.	Sibasankar Ghosh
34.	G. V. Subramaniam
35.	Sunil Kumar Bandyopadhyay
36.	Praphulla Kumar Ray
37.	Narayan Chandra Saha
38.	Sunil Kumar Chakrabarti
39.	Durgadas Raychaudhuri
40.	Tapan Gupta Sukritranjan Bhattacharya Harish Kumar Modi
43.	Asish Kumar Majumdar
44.	Narayan Chandra Karmakar
45.	Amit Kumar Basu
46.	Ram K. Panjabi
47.	Asesh Kumar Ray Chaudhuri
48.	Arunodoy Roy Choudhury
49.	Syamal Kumar Gangopadhyay
50.	Sandeep Kumar Patra Sunirmal Chakladar
52.	Tapendra Nath Basu
53.	Subrata Pain
54.	Tapan Kanti Chakraborty
55.	Indrajit Bhattacharya
56.	Paritosh Chattopadhyay Subrata Datta
58.	Manabendra Pal Chaudhuri
59.	Syamal Kumar Das Sarma
60.	Sisir Kumar Bhattacharjee
61.	Sankar Kumar Mitra
62.	Maharaj Krishen Kilam

SECOND CLASS  
(In order of merit)

63.	Apurba Kumar Mukhopadhyay
64.	Pramod Devidas Parekh Satya Narayan Ray
66.	Praduman Kumar

## Names

67.	Sukumar Mukhopadhyay Hari Pada Lala
69.	Samirendra Narayan Ghosh
70.	Netai Chandra Bhadra
71.	Sujit Sen
72.	Jayanta Kumar Goswami
73.	Tarun Kumar Das
74.	Ajay Gopal Adhikari
75.	Gokul Chandra Mandal
75.	Bijay Kumar Bandyopadhyay
77.	Biswanath Mukhopadhyay (2)
78.	Shyamal Kanti Chanda
79.	Ashis Kumar Ghose
80.	Sisir Kumar Roy
81.	Kalyan Kumar Bhowmik
82.	Gunakar Chakrabarti
83.	Ranjit Kumar Niyogi
84.	Bhaskar Chanda
85.	Ashutosh Chakraverty
86.	P. Rajagopalan
87.	Ajit Krishna Kundu
88.	Pradip Kumar Choudhury
89.	Bipul Kumar Sen
90.	Madhav Purushottam Gore
91.	Prosanta Kumar Das
92.	Jitendra Nath Bandyopadhyay (Banerjee)
93.	Rabindra Nath Chakraborty
94.	Tapan Kumar Ghosh
95.	Asok Kumar Ghatak
96.	Rabindra Mohan Basu
97.	Manash Kumar Mitra
98.	Himendu Narayan Choudhury
99.	Gourendra Chandra Roy
100.	Ajit Chandra Chakraborty
101.	Amal Kumar Sarkar
102.	Debabrata Ray
103.	Kamakhya Chandra Chattopadhyay
104.	Ramendra Narayan Majumder

Sl. No.	Names
105.	Dilip Ranjan Ghosh
106.	Arabinda Sinha Roy
107.	Rattan Lal Raina
108.	Nithar Kumar Chaudhury
109.	Sailendra Nath Ghosh
110.	Dipak Kumar Sen Gupta
111.	Anil Kumar Choudhury

BACHELOR OF CIVIL ENGINEERING  
FINAL EXAMINATION

FIRST CLASS WITH HONOURS  
(In order of merit)

1. Satyen Bhaumik

FIRST CLASS  
(In order of merit)

2. Prasanta Kumar Bandyopadhyay
3. Manasendu Banerjee
4. Syamal Ray
5. Utpal Das Gupta
6. Bipul Kumar Chakrabarty
7. Manik Bandyopadhyay
8. Sambhunath Palbag  
Raj Krishna Shrestha
10. Pranab Kumar Parua
11. Sabyasachi Bagchi  
Abhindranath Chattopadhyay
13. Ramananda Gangopadhyay  
Manoj Kumar Sen
15. Jyotsnamoy De
16. Subhas Kumar Basu
17. Raghavendra Das
18. Manoranjan Das
19. Maharaj Krishan Kaul
20. Sakti Ranjan Bhattacharya
21. Bijan Gopal Sasmal
22. Kamakhya Prasad Sarkar

Sl. No.	Names
23.	Dilip Kumar Bhattacharya Dipti Bhusan Guha Niyogi
25.	Amitabha Konar
26.	Bikas Mukhopadhyay
27.	Amitabha Sain
28.	Dilip Kumar Sen Pradyot Kumar Ray Chaudhury

SECOND CLASS  
(In order of merit)

30. Himanshu Kumar Dikshit  
Bibhuti Krishna Kundu
32. Amal Kanti Datta
33. Rabindra Nath Mukhopadhyay
34. Asim Kumar Chattopadhyay
35. Hrishikesh Mitra
36. Murari Mohan Datta
37. Prasanta Bhushan Bhattacharya
38. Hriday Ranjan Das
39. Sunilendu Poddar
40. Parimal Kanti Bhattacharya
41. Kalyan Basu
42. Debaprasad Pradhan
43. Saroj Mohan Ghosh  
Pradeep Kumar Lahkar  
Swadesh Ranjan Biswas
46. Joga Ranjan Maiti
47. Mridul Kanti Das
48. Sudhir Ranjan Chakravarty
49. Hrishikesh Gupta Sarma
50. Karunasindhu Bhattacharyya  
Debasish Bandyopadhyay  
Sankar Nath Bhattacharyya
53. Prafulla Kumar Roy
54. Himansu Kumar Datta
55. Prasanta Kumar Basu
56. Kanak Kiron Moulic
57. Manas Bandyopadhyay
58. Hiranmay Goswami

Sl. No.	Names
59.	Santimoy Niyogi
60.	Bikram Kisor Das
61.	Nisith Kumar Bairagi
62.	Bama Pada De
63.	Kamal Dasgupta
64.	Priya Ranjan Das
65.	Biswa Priya Ganguli
66.	Rakhal Chandra Chakrabarti Rabindra Nath Choudhuri Shyamalendu Ghosal
69.	Sandip Kumar Majumdar
70.	Arun Datta Ray
71.	Mantosh Kumar Mukherjee
72.	Krishna Pada Guha
73.	Tarakesh Maitra
74.	Kajal Kanti Sinha
75.	Prasanta Kumar Ghose
76.	Ranajit Narayan Basu
77.	Syamal Mukhopadhyay
78.	Sankar Lal De
79.	Danatosh Chatterjee
80.	Rajendra Prasad Bhattacharjee
81.	Pranab Kumar Biswas
82.	Biswajit Das
83.	Dipak Kumar Majumdar
84.	Ramendra Nath Sen Gupta Radhashyam Giri
86.	Sunil Ranjan Das
87.	Tushar Kanti Basu Bijoy Sankar Das Dwarik Nath Ghose Satya Priya Ghosh
91.	Biswanath Sircar
92.	Basudeb Ghose Dipendra Nath Datta
94.	Priti Ranjan Chaudhuri
95.	Binay Kumar Basu
96.	Girdhari Lal Kachroo Bibekananda Chowdhury
98.	Sibabrata Ganguli

Sl. No.	Names
99.	Satyendra Kumar Verma
100.	Nrisinhadas Pal
101.	Jayanta Kumar Basu
102.	Hari Charan Das
103.	Apurba Kumar Dalui
104.	Dilip Kumar Dutta Roy
105.	Karunamay Chakravarty
106.	Balai Bhattacharyya
107.	Achintya Kumar Pal
108.	Mrinal Kanti Ghosh
109.	Bireswar Mukhopadhyay
110.	Pradip Kumar Bagchi
111.	Ashoke Kumar Paul
112.	Autar Krishen Kaul Dipti Kumar Basu (Bose)
114.	Gauri Kanta Sinha Saradindu Narayan Ray Bhaumik
116.	Tapan Kumar Ghosh
117.	Mihir Baran Chakraborti
118.	Soumitra Krishna Sinha
119.	Birendra Das Gupta
120.	Jatindra Nath Rudra
121.	Saumyendra Kisor Ray Chaudhury
122.	Md. Siddique Mullick
123.	Supriya Gupta
124.	Nitai Lal Ghatak
125.	Santosh Kumar Sirkar
126.	Joy Deb Ghosh
127.	Sankar Gupta
128.	Radha Krishan
129.	Nayanananda Ghosh
130.	Alakendra Nath Basu
131.	Durga Bahadur Gurung
132.	Sourindra Chakravarty
133.	Ranjan Bagchi
134.	Tushar Kanti Chakrabarti
135.	Amitava De
136.	Kusum Kali Shome
137.	Kanti Sekhar Dutt Roy

Sl. No.	Names
138.	Parimal Chandra Bhattacharya
139.	Gobinda Lall Bandyopadhyay
140.	Shantabrata Sengupta
141.	Dilip Kumar Bhattacharyya
142.	Asim Kumar Mitra
143.	Sitansu Kumar Bhattacharyya
144.	Debabrota Bandyopadhyaya
145.	Balaram Goswami Puspall Kumar Das Gupta
147.	Dhiraj Mohan Das
148.	Dilip Kumār Ghosal
149.	Kabindra Narayan Basu
150.	Parimal Chandra Roy
151.	Atindra Nath Chattopadhyaya
152.	Prasanta Das Gupta

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24. Prof. Sailesh Ch. Dasgupta
25. Prof. P. Kundu
26. Prof. J. K. Choudhury
27. Prof. P. Kundu
28. Prof. J. K. Chaudhury
29. Prof. Pijush Kanti Som
30. Dr. S. C. Bhattacharyya
31. Dr. H. L. Roy
32. Dr. S. K. De

33. Dr. Sudhangshu Ch. Banerjee
34. Dr. Rama Ranjan Mukherjee

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