JADAVPUR UNIVERSITY

ANNUAL REPORT

(FROM 1st APRIL, 1960 TO 31st MARCH, 1961)

NOT TO BE LENT OUT
NOT TO BE LENT OUT
NOT TO BE LENT OUT
NOT TO BE LENT OUT







JADAVPUR UNIVERSITY

D

JADAVPUR UNIVERSITY LIBRARY

ANNUAL REPORT

1960-61

(1st April 1960 to 31st March 1961)

The following is a report on the working of the University during the period from 1.4.60 to 31.3.61.

CONDOLENCE

The University condoled the deaths of—

(a) Sri Sudhindra Nath Datta who was a Visiting Lecturer in the Department of Comparative Literature and who was closely connected with the University for a period of about four years ;

(b) Air Marshal Subrata Mukherjee who rendered outstanding service to the country in building up its Air Defences ;

(c) Sri Charu Chandra Biswas who was a member of the University from 1955 to 1959 and a member and Rector of the National Council of Education, Bengal, for a very long time ;

(d) Prof. Surendra Kumar Roy, who was one of the First Members of the University and an ex-student, teacher and ex-Principal of the College of Engineering and Technology ;

(e) Sri Sailaja Charan Sen Gupta, Reader of Mechanical Engineering and a life-member of the National Council of Education, Bengal ; and

(f) Sri Deb Nath Roy, an Assistant in the Accounts Office of the University.

BHARAT RATNA FOR THE PRESIDENT

The country's highest award—"BHARAT RATNA"—was conferred on Dr. Bidhan Chandra Roy, the President of the University, by the Government of India, on the occasion of the Republic Day.

The Government of France extended an invitation to the Rector to visit Universities, Technical Institutes and Centres of Industry in France. The Rector left for France on 31st October and returned on 2.12.60.

MEMBER OF THE UNIVERSITY

Professor Dilip Kumar Dutt was declared elected as a member of the University in the vacancy caused by the resignation of Dr. T. K. Roy in the bye-election held in December, 1960.

DONATIONS

The University received the following donations during the period under report :—

Late Sudhindra Nath Datta made a testamentary gift of his entire estate to the University subject to two life interests. The University accepted the offer of Prof. Dr. Shyamadas Chatterjee, Head of the Department of Physics, for making some personal contributions to the Research Fund to be spent for furtherence of research in Physics at this University. The University also accepted the grant of Rs. 1,200/- offered by Messrs. Bien Artium Natural Science Private Ltd. for research in the Department of Geological Sciences. Late Sailaja Charan Sen Gupta donated a sum of Rs. 1,500/- to the University.

The sons of late Hirendra Nath Datta donated a sum of Rs. 5,000/- for the award of a Gold Medal every year to the student who secures the highest marks in the Essay Paper of Comparative Literature in the M. A. Examination.

Sm. Mrinmayee Datta donated a sum of Rs. 2,000/- to the University for awarding a Gold Medal—named after her father late Jogendra Nath Das, a lawyer of Sylhet—to the student who stands first in the M. A. Examination in English.

Mr. H. A. Kuljian, President of the Kuljian Corporation, offered a donation to maintain two scholarships of Rs. 180/- each per annum for a period of five years to enable two studeuts of the Faculty of Engineering and Technology of this University to pay their tuition fees.

Sri T. R. Gupta, Managing Director, Jay Engineering Works, donated Rs. 1,001/- to the University for the Annual Exhibition.

India Hard Metals (Private) Ltd. donated Rs. 10,000/- for study of the Tungsten Ore Deposits in Bankura and other parts of India.

Messrs. Eyre Smelting (P) Ltd. of Calcutta donated Rs. 4,500/- for carrying out investigations on can-lining compounds at the Food Technology Division.

The University is grateful to the donors.

ADMINISTRATION

The term of Sri Tarak Nath Bhattacharyya as Accounts Officer was extended for another year up to 31.3.61.

Sri Ajit Kumar Banerjee was appointed Statistical Officer for a period of one year with effect from 1.4.60.

Sri Sudhangshu Kumar Chakraborty was appointed Superintendent of Admissions on a temporary basis with effect from 2.5.60.

Sri Dilip Kumar Dutt, Proffessor of Chemical Engineering, was appointed officiating Proffessor-in-Charge of Chemical Engineering with effect from 22nd August, 1960.

BUILDINGS

Of the new buildings which were completed and put to use during the period under report may be mentioned the two new blocks of Men's and Women's Hostel, Extension of the Arts and Science Under-graduate buildings. The installation of equipment in the Hydraulics Laboratory was completed and the building was formally opened by Dr. K. L. Rao, Member, Central Water and Power Commission, Government of India, on the 27th December, 1960. The construction of the Post-Graduate Science building, Staff Quarters and the Mechanical Engineering building was taken in hand. The construction of building for accommodation of the Post-Graduate Course in Food Technology was also completed during the period under report.

NEW PAY SCALES

On the recommendation of the University Grants Commission, the University adopted revised scales of pay (second revision) for the teachers in the Faculty of Engineering and Technology with effect from 1.4.60.

TEACHERS

There were 285 (including 10 Part-time and 11 Visiting) teachers on the staff of the University of whom 275 were men and 10 women. There were 110 teachers in the Faculty of Engineering and Technology, 97 in the Faculty of Science and 79 in the Faculty of Arts. The distribution among the different cadres and Departments is given in *Appendix* 'A'.

The following teachers were granted leave or extension thereof during the period under report :—

Chemical Engineering

Sri Aditya Prasad Sinha was granted further extension of study

leave for a period of 3 months with effect from 12.12.60 to continue his studies at the Institute of Chemical Engineering, Moscow.

Civil Engineering

Sri Nilay Chaudhuri, Reader of Civil Engineering, was granted study leave with full pay for one year from July, 1960, to take training at the University of Illinois, Urbana, U.S.A.

Mechanical Engineering

Sri Bijan Kumar Roy, Reader of Mechanical Engineering, was granted an extension of leave on half pay for one year from 21.8.60 for completing his Doctorate Course at the University of Dresden.

Inorganic Chemistry

Sri Jaygopal Sen Gupta, Lecturer in Inorganic Chemistry, was granted an extension of study leave without pay for one year with effect from 26.9.60 to enable him to work in Analytical Chemistry at the University of Toronto.

Sri Amiya Kumar Chakrabartty, Lecturer in Inorganic Chemistry, was granted study leave on pay for a period of half one year from July, 1960, on being awarded a Smith Mundt Scholarship and Fulbright Travel Grant.

Sri Apurba Kumar Sen Gupta, Lecturer in Inorganic Chemistry, was granted study leave on full pay for one year from 24th October, 1960 to avail the research fellowship offered to him by the Institute für Anorganische Chemie der Deutschen Akademie der Wissenschaften Zu, Berlin.

Organic Chemistry

Dr. Amareswar Chatterjee, Lecturer in Organic Chemistry, was granted an extension of study leave without pay for one year from 1.8.60 to complete his Post-Doctoral work at the Harvard University.

Geological Sciences

Sri Pramatha Nath Hore, Lecturer in Geological Sciences, was granted study leave on half pay for one year from September, 1960, on being awarded a Scholarship under the Commonwealth Scholarship and Fellowship Plan.

Mathematics

Sri Ramendra Kumar Bhattacharyya, Lecturer in Mathematics, who joined the Stanford University, U.S.A., on being awarded a Fellowship, was granted an extension of study leave for one year without pay from 1.11.60.

Sri Sakti Kanta Chakraborty, Lecturer in Mathematics, was granted leave without pay for one year from 28.11.60 to join the University of Burdwan.

Physics

Dr. Topendra Chandra Roy, Reader of Physics, was granted study leave on half pay from 8.10.60 for one year for joining the Institute of International Education in U.S.A.

History

Sri Amitava Mukhopadhyay, Lecturer in History, was granted an extension of leave on deputation without pay for 23 days from 25.6.60 to complete his Post-Graduate studies at the University of Pennsylvania.

Sri Ranjit Guha, Lecturer in History, was granted an extension of study leave without pay for one year from 3.11.60 to accept the post of Grade I Research Assistant in the Faculty of Economics and Social Sciences at the University of Manchester.

Economics

Sri Arun Kumar Dutta, Lecturer in Economics, was granted an extension of study leave with half pay for one year from 24.7.60 to complete the Ph.D. Course at the University of Buffalo.

Dr. Ambica Ghosh, Lecturer in Economics, was granted special leave on full pay for a period of six weeks from 1st July, 1960, to go to Cambridge to finish his monograph to be published by the University of Cambridge.

Philosophy

Sri Sachindra Nath Ganguly was granted study leave without pay for one year from 24.10.60 on being awarded a Commonwealth Scholarship for higher studies in U.K.

International Relations

The period of deputation of Dr. Prithwish Chandra Chakravarti, Professor and Head of the Department of International Relations, who joined the University of Indiana, Bloomington, U.S.A., as a Visiting Professor, was extended up to 15th September, 1960.

Comparative Literature

Professor Buddhadeva Bose, Head of the Department of Comparative Literature, was granted leave on deputation with full pay for six months from January, 1960, to accept appointment as a Distinguished Visiting Professor of Comparative Literature at the University of New York.

OTHER ACTIVITIES OF TEACHERS

Dr. Anil Kumar Majumdar, Professor of Inorganic Chemistry, and Principal of the University College of Science, was invited to deliver a lecture on the Analytical Chemistry of some less common-metals at the 18th International Congress of Pure and Applied Chemistry to be held at Montreal in the summer of 1961. Dr. Majumdar was also appointed a member of the Chemistry Advisory Committee of the Department of Atomic Energy, Government of India.

Dr. Tarun Kumar Ghosh, Reader, Food Technology Division, was appointed a member of the Environmental Hygiene and Sanitation Advisory Committee of the Indian Council of Medical Research, New Delhi. Dr. Ghosh was also appointed as one of the Jt. Secretaries of the Indian Institute of Chemical Engineers.

Dr. Arabinda Nath Bose, Professor of Food Technology Division, was elected Vice-President of the Society of Biological Chemists and Secretary of the Association of Food Technologists (Eastern Region). He was also appointed a member of the Fruits and Vegetables Sectional Committee of the Indian Standards Institution, and of the Research Committee of the Development Council for Food Processing Industries of the Government of India.

Professor Hem Chandra Guha, Dean of the Faculty of Engineering and Technology, was elected the Chairman of the Institution of Engineers, Bengal Centre.

Sri Dilip Kumar Dutt, officiating Professor-in-Charge of Chemical Engineering, was elected the Hony. Treasurer of the Indian Institute of Chemical Engineers, for the year 1961.

Dr. Kshirode Chandra Roy Chowdhury, Reader of Chemical Engineering was elected the Regional Secretary of the Calcutta Regional Centre of the Indian Institute of Chemical Engineers for the year 1960-61.

Sri Aditya Prosad Sinha, Lecturer in Chemical Engineering, added to his qualification by obtaining the degree of "Candidate of Technical Science" from Moscow Institute of Chemical Engineering in March, 1961.

Dr. Hira Lal Roy, Professor Emeritus, was elected the President of the Indian Institute of Chemical Engineers.

Sri Jyotsna Kumar Choudhury, Professor of Electrical Engineering, was elected Recorder of the Section of Engineering and Metallurgy for the next two sessions of the Indian Science Congress to be held in 1962 and 1963.

Dr. Subir Kumar Ghosh, Lecturer in Geological Sciences, was awarded the "Sarat Lal Biswas Memorial Medal" of the Asiatic Society.

Sri Bankim Chadra Mukherjee, Reader of Geological Sciences, was invited to represent India at the ensuing Conference of International Commission for Coal Petrology at Krefeld and Essen in West Germany.

Professor Buddhadeva Bose, Head of the Department of Comparative Literature, was invited to join the faculty of New York University, as a distinguished Visiting Professor of Comparative Literature.

Dr. Rabindra K. Das Gupta, Reader of English, attended the 4th International Congress on Aesthetics held at Athens.

Dr. Sachindra Kumar Maity, Reader of History, was appointed Assistant Editor of Volume III (300 A.D. to 1000 A.D.) of the Comprehensive History of India, sponsored by the Indian History Congress.

Sri Bimala Prasad Mukherjee, Reader of History, was invited by the National Book Trust of India to write the volume on Bengal in their proposed series of books on the Culture and Life of each State.

Shri Kali Krishna Banerjee, Reader of Philosophy, was elected the President of the History of Philosophy Section of the Indian Philosophy Congress, 1961.

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

1. Sri Gopika Mohan Bhattaaharyya (Sanskrit)	...	D. Phil. (Arts) Calcutta University.
2. Sri Prosad Kumar Bhattacharyya (Physical Chemistry)	...	D. Phil. (Science) Calcutta University.
3. Sri Rabindra Nath Bhattacharyya (Mathematics)	...	D. Phil. (Arts) Calcutta University.
4. Sri Manindra Nath Mitra (Mathematics)		Ph.D. (Science) Jadavpur University.
5. Sri Sudhir Ranjan Khamrui (Mathematics)	...	-do-

6. Sri Kanai Lal Chakraborty (Geological Sciences)	Ph.D. (Science)	Jadavpur University.
7. Sri Ashit Kumar Mukherjee (Inorganic Chemistry)	...	-do-
8. Sri Kanai Lal Mallik (Physical Chemistry)	Ph.D. (Science)	Jadavpur University.
9. Sri Sasanka Bhusan Dutt (Mathematics)	...	-do-
10. Sri Amitabha Chakravarti (Methematics)	...	-do-
11. Sri Amitabha Mukherjee (History)	... A. M. (Master of Arts) in History,	University of Pennsylvania, U. S. A.
12. Sri Binode Lal Das (Mechanical Engineering)	... M. M. E.	Jadavpur University.
13. Sri Bimala Das Banerjee (Mechanical Engineering)	... M. M. E.	Jadavpur University.
14. Sri Nilay Chaudhury (Civil Engineering)	... M. C. E.	Jadavpur University.

VISITING LECTURERS DURING THE SESSION 1960-61

Name	*No. of Lectures*	*Subject*
1. Sri Amitabha Guha, B.Sc. (Cal.), B.E. (Cal.), A.M.I. Struct. E, (London), Engineer, Simplex Cement Piles (India) Ltd.	8	Waterways, Harbours and Docks.
2. Sri R. B. Rao, M. Sc., F.R.S.A., F.C.S., Works Manager, Britannia Biscut Co., Ltd.	10	Bakery Technology.

3. Sri A. K. Mustafi, B. Sc., A. I. S. M., Chief Drilling Engineer, Kilburn & Co. (P) Ltd.	15	Modern Principles of Drilling.
4. Prof. Dr. S. K. Banerji, D. Sc., F. N. I.	30	Exploration Geophysics.
5. Prof. S. K. Bose, B. Sc., A. R., S. M. (Lond.), Ex-Professor of Mining and sometime Principal, Indian School of Mining and Applied Geology, Dhanbad.	45	Modern Principles of Mining.
6. Dr. Manoranjan Dutt, Chief Engineer, West Bengal State Electricity Board.	20	Hydroelectric Generation and Installations.
7. Sri Sukomal Dutta, B. Sc. (Engg.), of Ms. Dodsal Pvt. Ltd.	20	High Voltage Technique.
8. Dr. S. K. Sircar, Ex-Works Manager, Barari Coke Co.	5	Coal and Coal Tar Distillation.
9. Dr. B. Sen, Chief Chemist, Titaghur Paper Mills, Titaghur.	5	Pulp and Paper Industry.
10. Sri T. K. Basu, B. E., C. E. (P.H.) (Cal.), P. A. to Chief Engineer, Govt. of West Bengal.	12	Public Health Engineering.
11. Sri S. B. Kundu, B. E., C. E., M. E. (P.H.) (Cal.), Asst. Engineer, Metropolitan Water Supply and Drainage Board.	10	Public Health Engineering.
12. Sri S. K. Ghosal, B. Sc., B. E., C. E., M. E. (P.H.) (Cal.), Executive Engineer, Public Health Engineering, Govt. of West Bengal.	1	-do-

RETIREMENT

The undermentioned teachers retired from service from the date as indicated against each name :—

Sri Amiya Kumar Basu, Prof. of Mechanical Engineering.	1-7-60
Sri Provat Kusum Ray, Asst. Prof. of Chemical Engineering.	1-7-60
Sri Jatindra Mohan Palit, Asst. Prof. of Electrical Engineering.	1-7-60

REAPPOINTMENT

The following Professors and Heads of Departments were reappointed for a period of one year from the date as indicated against each name :—

Dr. Bibhutibhusan Sen, D. Sc., Prof. and Head of the Department of Mathematics.	5-7-60
Sri Susobhan Chandra Sarkar, M.A. (Cal. et. Oxon.), Professor and Head of the Department of History.	19-8-60
Dr. Sadananda Bhaduri, M.A., Ph. D., Prof. and Head of the Department of Sanskrit. ...	1-7-60

The following Professors were appointed in the different Departments during the period under report :—

Dr. Benoyendra Nath Chanda	Mechanical Engineering
Sri Bibhu Charan Mukherjee	do
Dr. Shyamapada Patra	Electrical Engineering

COURSES OF STUDY

During the period under report, the University decided to start the 5-year Integrated Course in Engineering from the Session 1960-61. The University also instituted a two-year Diploma Course in Sanskrit and a two-year Post-Graduate Course in Applied Geology from the Session 1960-61, in modification of the existing course in Geological Sciences.

ADMISSION

A large number of applications was received for admission into the different courses of study as shown in the following table :—

Course	*No. of applications received*	*Total number of students admitted*
Preparatory :		
Science	513	Boys—80 Girls— 80
Arts	59	Boys—14 Girls—18 32
Degree :		
Arts	102	Boys— 9 Girls—14 23
Science	1,323	Boys—51 Girls— 3 54
Engineering	11,018 + 394*	Boys—365 + 90* = 455 Girls— 5 = 5
Post-Graduate :		
Arts	1,608	Boys—92 Girls—135 227
Science	544	Boys—31 Girls— 6 37
Engineering	14	Boys—12 Girls— 1 13

Subjectwise breakup is given in Appendix "B". 9265

* Part-time Course.

RECOGNITION

The University recognised the Degrees and examinations of other Universities and Bodies as follows :—

1. The Pre-University examination and the three-year Honours Degree Course examinations in Arts and Science of the Utkal University as equivalent to the Preparatory examinations and the three-year Honours Course examinations of this University on a reciprocal basis.
2. The B.A. and B.Sc. Honours Course examinations of the Delhi University as equivalent to the B.A. and B.Sc. Honours Course examinations of this University on a reciprocal basis.

3. The Second Year B.A., Second Year B.Sc. and the First Year B.Sc. Honours Course examinations of the Maharaja Sayajirao University of Baroda as equivalent to B.A. Part I, B.Sc. Part I and B.Sc. Preliminary examinations of this University on a reciprocal basis.
4. The Inter-Science, B.A. and B.Sc. Honours Course examinations of the University of Bombay as equivalent to B.Sc. Preliminary, B.A. and B.Sc. examinations of this University on a reciprocal basis.
5. The M.A., B.A. and B.Sc. Honours Course examinations of the Tribhuban University (Nepal) as equivalent to the Corresponding examinations of this University on a reciprocal basis.
6. The B.A. and B.Sc. Honours, M.A. and M.Sc. and Ph.D. in Arts and Science Degree examinations of the Muslim University, Aligarh, as equivalent to the corresponding Degree examinations of this University on a reciprocal basis.
7. Part A and B of the A.M.I.E. (India) examination was recognised as equivalent to the B.E. Degree examination of this University for the purpose of service only.
8. The Indian School Certificate Examination was recognised as equivalent to the Pre-University examination provided that for the purpose of admission to this University the candidates have passed in any group—Groups (IV), (V), (VI) and (VII) with other than such subjects as are prescribed by this University for this purpose.
9. The Certificates and Diplomas in Electrical and Mechanical Engineering awarded by the Board of Apprenticeship Training was recognised as adequate standard for purpose of admission to the Part-time Degree Courses in Engineering of this University.
10. The B.Sc. Engineering examination of the Muslim University, Aligarh, was recognised on a reciprocal basis by this University.

DOCTORATE DEGREES

During the period under report the following number of candidates was registered for the Ph.D. Degree in the different Faculties:—

Arts	...	7 (6 men and 1 woman)
Science	...	15 (men)
Engineering & Technology	...	4 (men)
	Total	26

During the period under report, ten were admitted to the degree of Doctor of Philosophy in Science.

The number of students who appeared and passed in different examinations of the University :

		Pre-University		Bachelor's Degree		Master's Degree		Doctorate's Degree	Total
		Boys	Girls	Boys	Girls	Boys	Girls		
Arts	Appeared	8	19	11	8	77	72	—	195
	Passed	6	14	9	6	60	53	—	148
Science	Appeared	79	2	45	6	50	3	—	175
	Passed	68	2	34	6	44	3	10	167
Engineering & Technology	Appeared	—	—	235	5	7	—	—	247
	Passed	—	—	224	5	7	—	—	236

Post-Graduate

Engineering—7 students were placed in the First Class.

Arts—5 students were placed in the First Class and 108 in the Second Class.

Science—23 students were placed in the First Class, 24 students in the Second Class and 10 students were awarded Doctor of Philosophy.

Degree

Engineering—22 students passed in the First Class with Honours. 147 students were placed in the First Class and 41 in the Second Class. At the Supplementary examination in all 24 students appeared and 19 passed. 6 students were placed in the First Class and 13 in the Second Class.

Arts—1 student was placed in the First Class and 14 students in the Second Class.

Science—11 students were placed in the First Class and 29 in the Second Class.

The names of students who passed the different examinations are given in *Appendix* "C". The award of Medals is given in *Appendix* "D"

STUDENTS ON ROLLS

The number of students in the University rose from 2626 (2311 boys and 315 girls) to 3004 (2626 boys and 378 girls). Of these the Facultywise breakup was as follows :

	Pre-University		Undergraduate		Post-graduate		Doctorate	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Arts	14	18	56	76	208	239	6	1
Science	80	—	279	6	127	19	15	—
Engineering & Technology	—	—	1825	18	12	1	4	—

The distribution among the different course and classes is given in *Appendix* "E".

Foreign Students :

There were 15 foreign students in the University. The faculty-wise distribution is shown below :

	Faculty of Engineering and Technology	Faculty of Arts	Faculty of Science	Total
Nepal	11	1	—	12
Burma	1	1	—	2
Ceylon	—	2	—	2
Pakistan	1	—	—	1
Thailand	—	3	—	3
	13	7	—	20

RESEARCH SCHEMES AND PROJECTS

Research activities during the period under report were carried on in the different Departments of the University. A number of schemes under the Council of Scientific and Industrial Research, Government of West Bengal, and the Research Training Scholarship were taken up. In collaboration with the Reserve Bank of India, a scheme for Survey of Small Scale Industries in the District of Howrah at an estimated cost of Rs. 72,600/- was taken up. Another research scheme for a study of the number of emigrants and their impact on the economy of West Bengal was drawn up to be implemented with the assistance from the Population Council Inc. of New York. The total cost of the scheme was estimated at Rs. 27,000/- Sanction was received from the University Grants Commission for a research project in "Bio-Chemical Engineering for studies on continuous fermentation and design of a Reactor for the process".

Industrial Estate :

The Jadavpur University is one of the ten Universities that have been selected by the University Grants Commission for the setting up of an Industrial Estate. One acre of land has been allocated on the University Campus on which it is proposed to put up shops for

(1) Metal finishing, (2) General Engineering, (3) Electric Workshop, (4) Screws, Nuts and Bolts manufacturing unit and (5) Electrical low tension porcelain making unit. Rs. 5.25 lacs has been estimated as the requirement for the implementation of the scheme.

Digital Computers :

A project for the construction of two digital computers at the total cost of a little over Rs. 2 lacs was taken up by the University in collaboration with the Indian Statistical Institute.

A list of subjects and papers published during the period under report is given in *Appendix* "F".

NATIONAL CADET CORPS

The N.C.C. Units in the University had an addition during this period. Two N.C.C. Rifle Units were set up with one unit for boys and the other for girls. At the Annual Air Wing Camp held at Kanchrapara, No. 12 (Bengal) Air Squadron of the N.C.C. won four trophies. Two squadron prizes were awarded for performance in drill and in aeromodelling and two individual prizes were won by Sri Alok Nath Chaudhuri of the Electrical Engineering Class for being the "Best Shooter" and the "Best Cadet" of the Camp. He had the honour of receiving a prismatic monocular from the late Air Marshal Subrato Mukherji, Chief of the Air Staff. At the N.C.C. Day Parade held on 4th December 1960, three out of four Silver Medals came to our students. The medalists were Sri Ananta Mitra (Electrical Engineering) of Engineering Platoon, Sri Alok Chaudhury (Mechanical Engineering) of Air Wing and Sri Rana Krishna Majumdar (Science) of Naval Wing.

SPORTS

During the period under report the University participated in the following Tournaments :—

1. Football
2. Cricket
3. Hockey
4. Badminton
5. Table Tennis
6. Polevault

The University Cricket Team won against Burnpur Cricket Team by 80 runs in a one-day match played at Burnpur. The University Table Tennis Team reached the Zonal Final in Inter-University Tournament by defeating Gauhati, Allahabad and Agra Universities and lost to Delhi by 3 to 2. The Badminton Team lost to Allahabad in the second round. In the Basketball competition, the University College of Engineering and Technology annexed D. K. Wathoo Memorial Trophy by defeating its old rival Bengal Engineering

College, Shibpur, at the Final. The University College of Engineering and Technology also won trophies in Carom singles and Table Tennis in the Inter-Collegiate competition organised by the Calcutta University Institute. The University Main Hostel Team won the Captain S. K. Sen Memorial Shield in the Inter-Hostel Volleyball competition. The University Cricket Team also annexed Tarun Memorial Trophy by defeating the B.E. College, Shibpur. Sri Dakshina Ranjan Dey of Second Year B.Sc. (Mathematics) was selected to represent West Bengal at the National Athletic Championship in Pole Vault held at Jullundar and won the Gold Medal.

STUDENTS' ACTIVITIES

Sm. Shakila Khatun, a student of the Post-graduate class of the Department of International Relations was elected a member of the West Bengal Legislative Assembly from the Canning Constituency.

Sri Sashanka Kumar Roy of the Fourth Year Electrical Engineering Class was one of the three persons selected for permanent commission in the Navy out of 43 who had been called for final tests on all-India basis.

Sri Pranatosh Sen Gupta, a student of Fourth Year Chemical Engineering Class, annexed first prize in the All India Salon organised by Mysore Photographic Society.

Sri Deba Prasad Roy of the First Year M.Sc. Class in Chemistry came out first in the Essay competition organised by the Indo-American Society.

Sri Dakshina Ranjan Dey of Second Year B.Sc. (Mathematics) Class was selected to represent West Bengal at the National Athletic Championship held at Jullundar. He became the Champion in Pole Vault and won the Gold Medal.

Sri Manoj Kumar Banerjee of Third Year B.A. Class (Bengali) earned the title "Sura-Ratna" from All-India Gandharva Mahavidyalay Mondal, Bombay, in Guitar.

RELIEF WORK

To help the displaced persons of Assam affected by disturbances, a Relief Committee was formed under the Chairmanship of the Rector. A batch of student volunteers from the University distributed midday meal jointly with the Bharat Sevasram Sangha to the Assam refugees at Sealdah Station. The entire expenditure incurred for the purpose was borne by the Committee.

During the "Wild Life Preservation Week", Sri K. K. Lahiri, the Conservator-General of Forests and, Sri B. Neogy, Chief Inspector, Secondary Education, organised an excursion for students of this University to the Bird Sanctuary at Sajnekhali. Twenty-five students went by a steam launch of the Forest Department and spent a very interesting Day at the Sanctuary.

ANNUAL EXHIBITION

The Ninth Annual Exhibition was inaugurated by Sri T. R. Gupta, the Managing Director of Messrs. Jay Engineering Works Ltd. The exhibition consisted mainly of models, some of which were working ones, specially made by the students for the occasion. More than 20,000 people visited the Exhibition.

RADIO PLAY COMPETITION

At the Inter-University Radio Play Competition organised by the All India Radio, the University won a special prize in the Bengali section for the play "Pather Prante".

SOVIET YOUTH DELEGATION

The Students' Unions of the three University Colleges gave a reception to the Soviet Youth Delegation. The guests presented interesting programme of music and acrobatics.

VANA MAHOTSAVA

The Vana Mahotsava was celebrated on 19th August. Prof. P.K. Guha, Dean of the Faculty of Arts, planted a tree in the garden adjoining the Alumni Building. Dr. Sitanath Goswami, Reader of Sanskrit, chanted Vedic hymns and the students sang appropriate songs of Rabindra Nath.

PLANNING FORUM

The Plan Anniversary Day was observed in the University on the 12th September, 1960. A discussion on the Third Five-Year Plan was initiated by Prof. Panchanan Chakrabartty, Head of the Department of Economics. The teachers and students of all the Faculties attended the meeting,

FILM CLUB

The University Grants Commission sanctioned a sum of Rs. 10,000/- for starting a Film Club. The Film Club showed a number of outstanding Indian and foreign films.

YOUTH FESTIVAL

An Inter-Collegiate Youth Festival was organised at the University. The Students' Recreation Centre was the venue of the Festival which lasted for three successive days. The highlights of the programme were Drama and Musical Soiree. The Festival was inaugurated by Sri Narayan Gangopadhyay.

BOOK EXHIBITION

The Macmillan Co., New York, organised a Book Exhibition at the University Library. Valuable books on various interesting subjects were exhibited before a distinguished gathering.

The United States Information Service organised an exhibition on the system of election in the U.S.A.

SEMINAR AND SYMPOSIA

A symposium on "Engineering Education" was jointly organised by the University, the Institution of Engineers and the Journal of Power and River Valley Development. Dr. A. N. Khosla, Member, Planning Commission, Government of India, inaugurated the symposium and Dr. K. L. Rao of the Central Water and Power Commission, Government of India, presided. The following papers were read by the teachers of the University :

Dr. Nitish Narayan Ray—Higher Engineering Education in India.

Dr. Kshirode Ch. Roy Chowdhury—Recent Trends in Chemical Engineering Education in India.

Prof. Panchanan Kundu—Impact of Science on Engineering.

Dr. Binayendra Nath Chanda and Sri Madhusudan Sen Gupta—Problems of Engineering Education at Undergraduate level.

A seminar on the problems of Small Scale Industries was held at the University. Sri B. Venkatappiah, Deputy Governor of the Reserve Bank of India, presided over the seminar.

A symposium on "Fluid Mechanics and Hydraulics" was held at the University. This symposium was organised by the different departments of the Faculty of Engineering and Technology and the Faculty of Science. The Rector inaugurated the symposium and Dr. S. K. Banerji, Professor Emeritus, acted as the Chairman.

A list of papers read at the symposium is given below :

Dr. Kshirode Chandra Roy Chowdhury (Chemical Engineering)	...	Settling of non-spherical particles in fluids of different densities and viscosities.
Sri Bhupati Par (a Research student of Chemical Engineering)	...	Flow of non-Newtonian fluids.
Dr. Sudhir Ranjan Khamrui (Mathematics)	...	On the oscillation of a circular cylinder in a viscous liquid contained in a co-axial circular cylinder.
Sri Asim Ranjan Sen (Mathematics)	...	Last Cauchy-Poisson Waves.
Dr. Rabindra N. Bhattacharyya (Mathematics)	...	Three dimensional waves produced by a ship in uniformly accelerated motion.
Sri Kshetra Mohan Ghosh (Mathematics)	...	Stationery state of longitudinally homogeneous turbulence having cylindrical symmetry about a longitudinal axis fixed in space.
Sri Haripada Roy (Physics)	...	On some dynamical and electrodynamical aspects of Plasma.
Sri Jnanadananda Mukherjee (Research student of Physics)	...	Hydromagnetic Instabilities in the study of Plasma.
Dr. Benoyendra N. Chanda (Mechanical Engineering)	...	Unified Velocity Profile over heated and unheated turbulent boundary layer.

LIBRARY

During the period under report, 21,711 volumes of books, journals and other reading materials were added to the library bringing the total to approximately 1,16,781 volumes. 4926 books were catalogued and processed for use. The total number of books, journals etc. issued to readers and consulted by them in the Reading Rooms was 1,28,000. The library published during the period under report' 'Monthly Bulletin" containing lists of books catalouged and

released for use. Valuable book donations were also received from various Institutions and persons, details of which are given below :

1.	United States Government Printing Office, Division of Public Documents, Washington	26
2.	Penguin Books Ltd., Harmondsworth, Middlessex, U. K.	53
3.	Deputy Trade Representative, German Democratic Republic, Calcutta	16
4.	Population Council, New York	47
5.	Director, Centre, Cultural Francaisde, Calcutta ...	85
6.	Cultural Attache of the Embassy of U.S.S.R., New Delhi	191
7.	Cultural Relations Officer, Federal Republic of Germany, Calcutta	47
8.	Ministry of Education, Government of India, New Delhi	52
9.	Indiana University, Bloomington, U. S. A.	
10.	Prof. Walter Laves, Indiana University, Bloomington, U. S. A. ...	... 1,052
11.	United States Information Services, Calcutta ...	222
12.	Friendship University, Moscow	14
13.	United Kingdom Atomic Energy Commission, London	10
14.	Ministry of Commerce & Industry, New Delhi ...	52
15.	Lok Sabha Secretariat, New Delhi	152
16.	Dr. S. K. Banerjee, Calcutta	550
17.	Deputy Director of Industrial Statistics, Cabinet Secretariat, Calcutta	16
18.	Dr. N. R. Mukherjee, University of Utah, U. S. A. ...	211
19.	India Wheat Loan Educational Exchange Programme, New Delhi	753
20.	British Council (Text-Book Loan Scheme), New Delhi	844

OFFICE AND OTHER STAFF

The University had during the period a staff of 258 in the office, laboratories, library and workshop. Darwans, malis, bearers and sweepers numbered 196. The different categories of staff were as follows :

LIBRARY AND OFFICE STAFF

Chief Librarian	1
Librarian	1
Head Assistant	1

Accountant	1
Store Keeper	1
Cashier	1
Stenographer	1
Steno-typist	2
Cataloguer	4
Junior Assistant	55
Supervisor	4
Senior Assistant	14

CONVOCATION

The Annual Convocation was held on 8th January. The Convocation Address was delivered by Miss Padmaja Naidu, the Governor of West Bengal.

In all 459 students received their degrees in the various subjects details of which are given below :

Doctor of Philosophy in Science (Ph.D.)	...	10
Master of Science (M.Sc.) (Mathematics)	...	21
-do- (Geological Sciences)	...	17
-do- (Physics) ...	...	9
Master of Arts (M.A.) (English) ...	...	22
-do- (Bengali) ...	...	22
-do- (Sanskrit) ...	...	5
-do- (Philosophy) ...	...	9
-do- (Economics) ...	...	15
-do- (History) ...	...	22
-do- (International Relations)	...	12
-do- (Comparative Literature)	...	6
Bachelor of Science (B.Sc.) (Mathematics)	...	4
-do- (Physics) ...	...	10
-do- (Chemistry) ...	...	10
-do- (Geological Science)	...	16
Bachelor of Arts (B.A.) (English) ...	...	2
-do- (Bengali) ...	...	1
-do- (Philosophy) ...	...	1
-do- (Economics) ...	...	1
-do- (History) ...	...	4
-do- (International Relations)	...	3
-do- (Comperative Literature)	...	3
Bachelor of Chemical Engineering (B.Ch. E.)	...	59
Bachelor of Electrical Engineering (B.E.E.)	...	55
Bachelor of Electrical Engineering (B.E.E. Comm.)	...	4
Bachelor of Mechanical Engineering (B.M.E.)	...	77
Bachelor of Civil Engineering (B.C.E.)	...	34
		459

DEVELOPMENT AND EXPANSION

A Post-graduate Development Committee with Professor M. S. Thacker as Chairman visited the University with a view to formulating a plan for starting Post-graduate Courses in Engineering and Technology at the University.

During the period under report the development of the University went on in the three Faculties with the following grants that were received from the University Grants Commission, the Government of India and the Government of West Bengal.

Building	...	Rs. 6,36,500
Equipment	...	,, 5,44,880
Furniture	...	,, 42,900
Books	...	,, 89,000

BODIES OF THE UNIVERSITY

The names of members of the different bodies of the University are given in *Appendix* "G".

DISTINGUISHED VISITORS

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

1. Dr. H. R. Ambler, O.B.E., F.R.I.C.
   Scientific Adviser to the High Commissioner for the U. K. in India.
2. Professor Hisaki Kuno of Tokyo University.
3. Dr. Messener, a Visiting Professor from Germany at the Indian Institute of Technology, Kharagpur.
4. Mr. Stephen Spender, the celebrated Poet and Critic.
5. Mr. T. Seike, President, Tokyo Metropolitan Junior College of Engineering,
   Mr. T. Inumaru, Mr. S. Kasagi and Mr. A. Miki of the Ministry of Education, Japan.
6. Dr. Robert Saner, Professor of Technischen Hochschule, Munich.
7. Mr. Richard Church, the eminent English Poet, Critic and Novelist.
8. Mr. N. W. Pirie, F.R.S., who came to India to advise the Government on the development of subsidiary foods.
9. A delegation from the Government of Nepal, led by Mr. L. W. S. Sychlinski, a T.C.M. Adviser.
10. Dr. Webber of Ford Foundation.

11. Professor William Norman Brown of Pennsylvania University.
12. Mr. & Mrs. Lawrence S. Kipp of Harvard University.

MISCELLANEOUS

The total number of academic working days was 202.

The different bodies of the University held the following number of meetings :

University	...	5
Academic Council	...	5
Administrative Council	...	3
Finance Council	...	1

FINANCE

A. The following non-recurring grants were received by the University during the year 1960-61 :

I. **University Grants Commission**	Rs.
(a) Equipment for Civil Engineering ...	40,000
(b) Equipment for expansion of training capacity of existing degree course in Engineering ...	1,00,000
(c) Books and journals on Humanities	10,000
(d) Equipment for P. G. Development and Research in Physics	74,667
(e) Equipment for P. G. Development and Research in Geology	26,666
(f) Library books for P. G. Development and Research in Science	50,000
(g) Construction of Hostel	20,000
(h) Library books for P. G. Development and Research in International Relations and Comparative Literature	16,000
(i) Construction of Students' Health Centre ...	15,000
(j) Furniture and Microfilm and Photostat equipment for Library	20,000
(k) Furniture for P. G. Course in Food Technology	10,000
(l) Equipment for P. G. Course in Food Technology	15,000
(m) Construction of building for P. G. Development in Science	3,25,000
(n) Rehabilitation of equipment for College of Engineering and Technology	1,00,000
TOTAL RS. ...	8,22,333

		Rs.
II. Government of India		
(a) Ad-hoc grant to wipe out accumulated deficit	...	2,82,400
(b) Equipment for Fundamental Research	...	37,715
TOTAL RS.	...	3,20,115
III. Government of West Bengal		
(a) Equipment for Civil Engineering	...	57,500
(b) Equipment for P. G. Development and Research in Physics	...	20,000
(c) Equipment for P. G. Development and Research in Chemistry	...	20,000
(d) Equipment for P. G. Development and Research in Geology	...	26,666
(e) Equipment for P. G. Development and Research in Mathematics	...	1,666
(f) Books for Development of P. G. Courses in International Relations and Comparative Literature	...	13,000
(g) Construction of Food Processing Laboratory	...	30,000
(h) Construction of P. G. Science Building	...	1,46,500
(i) Furniture and Microfilm and photostat equipment for library	...	10,000
(j) Construction of hostel	...	1,00,000
(k) Ad-hoc grant to wipe out accumulated deficit	...	5,55,194
TOTAL RS.	...	9,80,526

Non-Recurring Expenditure during the year

Building Construction	...	15,64,201
Equipment	...	4,74,195
Furniture and Fixture	...	55,352
Books and Journals	...	86,245
TOTAL RS.	...	21,79,993

B. The following recurring grants were received by the University during the year 1960-61 :

I. University Grants Commission		
(a) Setting of Statistical Unit	...	3,000
(b) Maintenance of existing degree courses in Engineering	...	5,98,000
(c) Revision of pay scales of teachers	...	1,18,567

		Rs.
(d) Part-time degree course	...	17,505
(e) Expansion of training capacity of existing degree courses in Engineering	...	1,53,259
(f) Maintenance of Civil Engineering	...	36,316
(g) Maintenance of P. G. Food Technology	...	28,859
(h) Setting of Film Club	...	1,000
(i) Extension work of University teachers	...	3,300
TOTAL RS.	...	9,59,806
II. Government of India		
Ad-hoc grant to wipe out accumulated deficit	...	3,33,600
III. Government of West Bengal		
(a) Maintenance of University	...	13,00,000
(b) Ad-hoc grant to wipe out accumulated deficit	...	1,45,000
(c) Extension work of University teachers	...	3,300
(d) Revision of pay scale of teachers	...	14,414
(e) Maintenance of Chemical Engineering Dept.	...	1,65,000
(f) Expansion of training capacity of existing degree courses in Engineering	...	1,53,259
(g) Maintenance of Civil Engineering	...	1,14,441
(h) Subvention for dearness allowance	...	88,460
TOTAL RS.	...	21,03,874

Overall financial position of the various departments of the University :

Revenue Income	...	Rs. 39,28,801
Revenue Expenditure	...	,, 40,32,003

C. Research Activities

Revenue Income :	Rs.
(a) C.S.I.R. ...	1,18,006
(b) I.C.A.R. ...	11,066
(c) Government of India ...	19,615
(d) Government of West Bengal ...	9,940
(e) University Grants Commission ...	19,118
(f) Others ...	16,150
TOTAL RS. ...	1,93,895

Total Revenue Expenditure Rs. 2,25,375

Teachers of Different cadres and Departments

Faculty of Arts

	English	Bengali	Sanskrit	Comparative Literature	History	Economics	Philosophy	International Relations
Principal—1								
Professor ...	1	1	1	1	1	1	1	1
Reader ...	1	2	1	1	2	3	1	x
Lecturer ...	10	4	6+1*	5+1*	6	7	8	7+3*
Language Class—1*								

Faculty of Science

	Physics	Chemistry	Mathematics	Geological Sciences
Principal—1†				
Professor ...	1	3	1	1
Reader ...	5	7	5	3
Lecturer ...	19	25	13	9+1*+3**

Faculty of Engineering & Technology

	Mechanical Engineering	Electrical Engg.	Chemical Engg.	Civil Engg.	Tele. Com. Engg.	Engg. Economics	Food Technology
Principal—1							
Professor-in-Charge ...	1	1	x	1	1	x	x
Professor ...	4	4	2	1	1	1*	1
Reader ...	16	8	3	2	2	x	1
Lecturer ...	25	8+2*	6+3**	8+4**	2	x	1**

*Part Time **Visiting †Also shown in the column—Professor of Chemistry.

APPLICATIONS FOR ADMISSION

COURSES	No. of Applicants	Number Admitted Boys	Girls	Total
Preparatory Arts—	59	14	18	32
Degree Course (Arts)				
Philosophy	8	—	—	—
Sanskrit	4	—	—	—
English	11	1	2	3
Bengali	12	2	1	3
Comparative Literature	5	1	4	5
Economics	33	3	4	7
International Relations	9	1	1	2
History	20	1	2	3
P. G. Arts—				
Philosophy	74	9	26	35
Sanskrit	34	10	15	25
English	125	14	20	34
Bengali	165	9	21	30
Comparative Literature	57	4	10	14
Economics	213	19	4	23
International Relations	222	12	19	31
History	205	15	20	35
Preparatory Science	513	80	—	80
Degree Course (Science)				
Mathematics	351	9	1	10
Physics	501	11	1	12
Chemistry	361	11	1	12
Geological Sciences	110	20	—	20
P. G. Science—				
Mathematics	190	26	2	28
Physics	209	5	4	9
Chemistry	124	—	—	—
Geological Sciences	21	—	—	—
Engineering Degree Courses—				
Mechanical Engineering	3167	89	1	90
Electrical Engineering	2847	90	—	90
Civil Engineering	2328	90	—	90
Chemical Engineering	1589	59	1	60
Tele. Communication Engineering	1087	37	3	40
Post-Graduate Engineering Courses—				
Mechanical Engineering	6	6	—	6
Electrical Engineering	—	—	—	—
Civil Engineering	1	1	—	1
Chemical Engineering	5	2	1	3
Food Technology	3	3	—	3
Part-time Degree Courses (Engineering)				
Mechanical Engineering	62	15	—	15
Electrical Engineering	50	15	—	15
Civil Engineering	282	60	—	60

APPENDIX "C"

FINAL POST-GRADUATE EXAMINATION
HELD IN 1960
LIST OF SUCCESSFUL CANDIDATES

FACULTY OF ENGINEERING & TECHNOLOGY

***Chemical Engineering**

FIRST CLASS
(In order of merit)

	Names
1.	Sitansubimal Lodh
2.	Sunitkumar Mukhopadhyay
3.	Bhupati Charan Parh

***Food Technology**

FIRST CLASS
(In order of merit)

	Names
1.	Samar Kumar Basu
2.	Ananta Kumar Chattopadhyay

***Civil Engineering**

FIRST CLASS
(In order of merit)

	Names
1.	Bhola Nath Ghosh
2.	Subhas Chandra Das

*Final Post-graduate Engineering Examinations 1960 were held in January, 1961.

FACULTY OF SCIENCE

Mathematics

FIRST CLASS
(In order of merit)

Sl. No.	Names
1.	Rukmini Raman Giri
2.	Suprakas Mahapatra
3.	Radha Ballav Das
4.	Krishnadas Barman
5.	Chitta Ranjan Sen Gupta
6.	Jagannath Bhattacharjee
7.	Kanai Lal Goswami

SECOND CLASS
(In order of merit)

	Names
8.	Debabrata Basu
9.	Santimaya Das
10.	Subhajyoti Sen
11.	Manojit Kumar Podder
12.	Mani Basu
13.	Anil Kumar Biswas
14.	Prajit Kumar Chatarji (Chattopadhyay)
15.	Sasanka Sekhar Sarangi
16.	Nityananda Bandyopadhyay
17.	Ratna Dutta
18.	Atashi Chowdhury
19.	Samarendra Kishore Paul Nirmal Kumar Sinha Sanat Kumar Ray Chaudhuri

Physics

FIRST CLASS
(In order of merit)

Sl. No.	Names
1.	Binoy Bhusan Barman Roy
2.	Sailendra Narayan Roy Choudhury
3.	Sushil Kumar Das

Physics (Contd.)

4.	Sudhir Chandra Chakravorty
5.	Jibanmoy Bhattacharyya
6.	Nirmalendu Choudhuri
7.	Atal Chowdhury

SECOND CLASS
(In order of merit)

	Names
8.	Pulak Sen Gupta
9.	Tarakeswar Das

Geological Sciences

FIRST CLASS
(In order of merit)

Sl. No.	Names
1.	Jibamitra Gangopadhyay
2.	Sudhir Kumar Bandyopadhyay
3.	Devapriya Ghose
4.	Nirendra Bhowmik
5.	Prasanta Kumar Bhattacharyya
6.	Asoke Chattopadhyay
7.	Subhasis Sen
8.	Sukumar Basu Mallick
9.	Birendra Nath Bhattacharyya

SECOND CLASS
(In order of merit)

	Names
10.	Prabir Kumar Samarendra Guha
	Shyam Sundar Saha
12.	Ajoy Lal Mukhopadhya
13.	Tarit Kumar Chattopadhyay
14.	Ajit Kumar Das
15.	Amrita Lall Banerjee
16.	Debatosh Sen Gupta
17.	Dwipendra Nath Sarkar

FACULTY OF ARTS

English :

SECOND CLASS
(In order of merit)

Sl. No.	Names
1.	Manju Acharya
2.	Archana Banerjee (née Bhattacharjee)
3.	Alaka Das
4.	Santosh Kumar Paul
5.	Surajit Kumar Mahapatra
6.	Dipika Bandyopadhyay
7.	Nupur Gupta
8.	Swastik Kumar Gangulee
9.	Premananda Pradhan
10.	Voruganti Mohana Rao
11.	Bhabani Sen
12.	Manabendranath Chattopadhyay
13.	Asok Sengupta
14.	Pravati Bandyopadhyay
15.	Gobinda Prasad Ghosh
16.	Subrata Mukhopadhyay
17.	Jiban Kumar Chakraborty
18.	Geeta Kapur
19.	Kalyani Bagchi
	Bipul Ranjan Bose
	Purnima Banerjee
	Teja Raja Manandhar

Bengali :

SECOND CLASS
(In order of merit)

Sl. No.	Names
1.	Atreyee Mahalanobish
2.	Gayatriprava Nag (née Ghosh)
3.	Putul Bhattacharyya
4.	Ardhendu Banerjee
5.	Enakshi Chakraborty
6.	Renuka Banerjee

Bengali (Contd.)

7.	Kalipada Mandal
8.	Gatindra Nath Bhattacharya
9.	Subhabrata Sarkar
10.	Jyotsna Sirkar (née Basu)
11.	Rabindra Nath Jana
12.	Bani Mahata
13.	Ashutosh Giri Nilima Mandal
15.	Dolli Bandyopadhyaya
16.	Provati Chakravarty
17.	Chhaya Sarker
18.	Lekha Sengupta
19.	Namita Guha Kalyani Sarker
21.	Binoyendu Guha
22.	Uma Bandyopadhyay

Sanskrit :

FIRST CLASS

(In order of merit)

Sl. No.	Name
1.	Anantalal Gangopadhyaya

SECOND CLASS

(In order of merit)

Sl. No.	Names
2.	Madhuri Goswami (née Lahiri)
3.	Maya Ghosh
4.	Swarna Datta
5.	Kashi Nath Datta

Philosophy :

FIRST CLASS

(In order of merit)

Sl. No.	Names
1.	Pradyat Kumar Mukhopadhyay
2.	Sati Sen Gupta

Philosophy (Contd.)

SECOND CLASS

Sl. No.	(In order of merit) Names
3.	N. Saraswathi
4.	Minati Sarkar
5.	Pranab Kumar Sarkar
6.	Anil Kumar Choudhuri
7.	Dipali Chowdhuri
8.	Manjushree Chattopadhyay
9.	Krishna Datta

Economics :

SECOND CLASS

Sl. No.	(In order of merit) Names
1.	Akshay Kumar Majumdar
2.	Sugata Kumar Majumdar
3.	Gopal Chandra Bhattacharjee
4.	Bhaskar Narayan Bhattacharya
5.	Jyotirmoy Sen Gupta
6.	Sabita Bose
7.	Asoke Kanti Ghosh
8.	Asoke Kumar Bandyopadhyay
9.	Budhiram Das
10.	Prasanta Kumar Das Gupta
11.	Ramesh Kamath Gurpur K.
12.	Mrinal Chandra Sen Gupta
13.	Pranab Kumar Pande
14.	Kanchan Kumar Basuthakur
15.	Minati Chaudhuri

History :

FIRST CLASS

Sl. No.	(In order of merit) Name
1.	Manilal Chakraborty

JADAVPUR UNIVERSITY LIBRARY

History (Contd.)

SECOND CLASS

Sl. No.	(In order of merit) Names
2.	Pranab Kumar Ganguli
3.	Sunanda Mukhopadhyay
4.	Sudhir Kumar Pal
	Gouri Sankar Chattopadhyay
6.	Khagendra Nath Maity
7.	Harish Chandra Das
8.	Sukla Sen (née Datta Gupta)
9.	Narayan Das Konar
10.	Gopal Kishore Saha
11.	Promod Kumar Varma
12.	Bharat Chandra Giri
13.	Amal Kumar Chattopadhyay
14.	Bibha Ganguly
15.	Anjali Bandyopadhyay (née Mukhopadhyay)
16.	Namita Roy Choudhury
17.	Sunanda Roy
18.	Supti Chakrabarti
19.	Kamala Mitra
	Madhavika Roy (née Bhattacharyya)
21.	Krishna Roy Chowdhury (née Ghosh)
22.	Uma Basu

International Relations :

FIRST CLASS

Sl. No.	(In order of merit) Name
1.	Kusum Lata Sobti

SECOND CLASS

(In order of merit)

	Names
2.	Saumyendra Nath Chattopadhyya
3.	Dhrubajyoti Chaudhuri
4.	Samir Kumar Acharyya
5.	Tapan Kumar Karanjai

International Relations (Contd.)

6.	Benudhar Acharjee
7.	Narashingha Saha
8.	Bimal Kumar Sahoo
9.	Parimal Chakraborty
10.	Manju Rani Gupta
11.	Bharati Gupta
12.	Rakta Kamal Barman

Comparative Literature :

SECOND CLASS

(In order of merit)

Sl. No.	Names
1.	Jharna Bose
2.	Kamalesh Chattopadhyay
3.	Prasanta Kumar Mukhopadhyay
4.	Samir Chandra Sen Gupta
5.	Krishna Sen
6.	Kamalesh Chakraborty

FINAL BACHELOR'S DEGREE EXAMINATION, HELD IN 1960

LIST OF SUCCESSFUL CANDIDATES

FACULTY OF SCIENCE

Mathematics (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Names
1.	Nilratan Ray
2.	Sanjoy Kumar Adhikari
3.	Subodh Kumar Bhattacharjee
4.	Bimalendu Das

Physics (Honours)

FIRST CLASS

(In order of merit)

Sl. No.	Names
1.	Manmathanath Sarkar
2.	Debjani Guha Thakurta
3.	Taraprasad Khan
4.	Bharati Sinha

Physics (Honours) (Contd.)

SECOND CLASS

(In order of merit)

Sl. No.	Names
5	Pinaki Chaudhuri
6.	Ranjitkumar Sen
7.	Indranil Banerjee
8.	Jyoti Kanta Chakraborty
9.	Manas Das Gupta
10.	Prodip Kumar Sinha

Chemistry (Honours)

FIRST CLASS

(In order of merit)

Sl. No.	Name
1.	Deba Prasad Roy

SECOND CLASS

(In order of merit)

	Names
2.	Sukumarbikash Das
	Soumendra Nath Biswas
4.	Nityaranjan Das
5.	Biswanath Ganguly
6.	Salil Kumar Shah
7.	Samir Kumar Roy Chaudhury
8.	Jharna Roy
9.	Biswanath Ghosh Dastider
10.	Manasi Sen

Geological Sciences (Honours)

FIRST CLASS

(In order of merit)

Sl. No.	Names
1.	Manash Ranjan Bandyopadhyay
2.	Diptendu Narayan Ghosh
3.	Ranjit Kumar Ghosh

Geological Science (Contd.)

	Names
4.	Priyatosh Mazumder
	Sushanta Kumar Roy
6.	Debaprasad Sen

SECOND CLASS

(In order of merit)

	Names
7.	Prakashananda Mukherji
	Dipak Kumar Biswas
9.	Rabindra Nath Mukerjee
10.	Arun Kumar Dutta
11.	Abhijit Ghose
12.	Rekha Mukherjee
13.	Pradip Kumar Bose
14.	Prodyat Kumar Purkait
15.	Tapan Kumar Guha
16.	Manika Bardhan

FACULTY OF ARTS

English (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Names
1.	Nalini Mukerji
2.	Birendra Nath Kundu

Bengali (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Name
1.	Bani Bhattacharya

Philosophy (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Name
1.	Madhabendra Nath Mitra

Economics (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Name
1.	Ruchira Banerji

History (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Names
1.	Hinagamage Santhalal Sri Nissanka
2.	Bhikkhu Anuruddha
3.	Amal Roy
4.	Dipak Kumar Mukherjee

International Relations (Honours)

SECOND CLASS

(In order of merit)

Sl. No.	Names
1.	Sankar Gupta
2.	Kalyani Pait
3.	Nani Gopal Ghose

Comparative Literature (Honours)

FIRST CLASS

(In order of merit)

Sl. No.	Name
1.	Damayanti Bose

SECOND CLASS

(In order of metit)

	Names
2.	Kalyani Sinha
3.	Bikash Ratan Nandy

FACULTY OF ENGINEERING & TECHNOLOGY

Chemical Engineering :

FIRST CLASS

(In order of merit)

Sl. No.	Names
1.	Dipakeswar Bhattacharjee
2.	Ujjwal Banerjee
3.	Pranab Kumar Dutta
4.	Tilak Mohan Das
5.	Asim Kumar Chakravartti
6.	Banarsi Dass Gupta
7.	Rama Iyer S.
8.	Nitish Chandra Mukherjee
9.	Manju Rani Sen Gupta
10.	Rupak Kumar Dey
11.	Sachchidananda Banerjee
12.	Ranajit Kumar Roy
13.	Anandamoy Mukhopadhyay
14.	Bimal Kanti Mukhopadhyay
15.	Subrata Kumar Sarkar
16.	Vishist Varma
17.	Kalyan Kumar Maitra
18.	Anil Kumar Saha
19.	Tapan Kumar Goswami
20.	Binod Shanker Jaiswal
21.	Sushil Kumar Sen Gupta
22.	Kali Pada Mishra

SECOND CLASS

(In order of merit)

Sl. No.	Names
23.	Sunanda Kumar Roy Moulik
24.	Shyamal Kumar Sen
25.	Sarit Kumer Bhatta
26.	Pronob Kumar Bhattacharjee
27.	Pranab Kumar Chakravarty
28.	Arun Kumar Chintamani Shevade
29.	Ramesh Chandra Pal
30.	Nitindra Nath Roy Chowdhuri

Chemical Engineering (Contd.)

31.	Dilip Kumar Dey Surath Kumar Chanda
33.	Samir Kumar Ghosh
34.	Sunil Baran Sarkar
35.	Sankar Narayan Mukhopadhyay
36.	Aparup Sen Gupta
37.	Jaganath Das
38.	Prabhash Chandra Deb
39.	Basudeb Chatterjee
40.	Dipendra Narayan Dey
41.	Jagatjit Singh
42.	Girdhari Lal Ganzu
43.	Vijendra Pratap Kothari
44.	Arya Kumar Roy
45.	Bani Haldar
46.	Dilip Kumar Pal
47.	Kusumakar Digamber Dudwadker
48.	Tridib Nath Bhattacharyya
49.	Sandhya Basu Mallick
50.	P. V. Subramoniyan Namboothiri
51.	Ainul Haque
52.	Bikashendu Bose
53.	Nepal Chandra Das
54.	Amit Baran Das
55.	Nani Gopal Roy
56.	Phani Bhushan Majumdar
57.	Salil Kumar Das
58.	Animesh Banerjee
59.	Manindra Kumar De

ELECTRICAL ENGINEERING (POWER OPTION)

FIRST CLASS WITH HONOURS

(In order of merit)

Sl. No.	Names
1.	Sourendra Nath Pal
2.	Subir Chattopadhyay
3.	Ranjit Kumar Saha
4.	Jayantakumar Nag
5.	Subhendu Roy Choudhuri

FIRST CLASS

(In order of merit)

	Names
6.	Asim Kumar Chatterjee
7.	Somesh Kumar Das
8.	Jayanta Kumar Maitra
9.	Bimal Phukan
10.	Dilip Kumar Dass
11.	Narayan Patro
12.	Fazlur Rahman
13.	Kaibalya Dehuri
14.	Prabirkumar Palchaudhuri
15.	R. Krishnamoorthy
16.	Kalyan Kumar Ghose
17.	Tapobrata Mahalanabish
18.	Nilakantha Ganapathi
19.	Chaitanya Kumar Sahoo
20.	Ful Kumar Sen
21.	Debaprosad Roy
22.	Prasada Jagannadhrao
23.	Abani Kumar Mitra
24.	Lingaraj Tripathy
25.	Jayanta Kumar Chanda
26.	Sankar Roy Chowdhury
27.	Rathindra Kumar Mazumder
28.	Asoke Kumar Hazra
29.	Bhubanananda Padhi
30.	Rash Behari Ghose
31.	Amalendra Mukherjee
32.	Asokaranjan Mohanty
33.	Chinmoy Bhusan Bose
34.	Bijon Kumar Mukherjee
35.	Mihir Chakraborty
36.	Dipak Kumar Biswas
37.	Nimai Chand Sinha
38.	Barun Kumar Datta
39.	Suresha Nanda Misra
40.	Subimal Bose
41.	Shushanta Kumar Ray
42.	Kumar Pada Mandal
43.	Tushar Kanti Sen

44.	Ramendra Narayan Ray
	Lankavenkata Appayya Deekshitulu
46.	Gurdev Singh Sokhey
47.	Kamal Kumar Saha
48.	Salil Kumar Ghosh
49.	Raj Narayan Bhaiya
50.	Anil Kumar Mitra
51.	Arun Kumar Bhattacharyya
52.	Lok Nath Koul

SECOND CLASS

(In order of Merit)

	Names
53.	B. M. Madhava Reddy
54.	Amiyamoy Banerjee
55.	Bikash Chandra Gangopadhyay

ELECTRICAL ENGINEERING (COMMUNICATION OPTION)

FIRST CLASS WITH HONOURS

(In order of merit)

Sl. No.	Names
1.	Amiya Kumar Mallick
2.	Subrata Kumar Das

FIRST CLASS

(In order of merit)

	Names
3.	Bharati Sen
4.	Mina Sen Gupta

MECHANICAL ENGINEERING

FIRST CLASS WITH HONOURS

(In order of merit)

Sl. No.	Names
1.	Nityananda Chaudhuri
2.	Prithvi Raj Daga
3.	Minakshi Prasad Pramanik
4.	Paresh Nath Dutta
5.	Punyada Prosad Bhadury
6.	Sanat Kumar Nandi Pramanik
7.	Balram Singh
8.	Dhananjay Das

FIRST CLASS

(In order of merit)

	Names
9.	Arun Prakash Bhattacharjee
	Reboti Nath Das
11.	Nirmalendu Chattopadhyay
12.	Prabir Kumar Nag
13.	Birendra Nath Sikder
	Benoy Bhusan Roy
15.	Prafulla Chandra Baruah
16.	Monoj Kumar Choudhury
17.	Sasim Das Gupta
18.	Bhudeb Das
19.	Ram Prosad Chakraborty
20.	Ranjit Chaliha
21.	Gopal Krushna Mohanty
22.	Mrinal Kanti Gupta
23.	Brojendro Lal Dutta
	Pradip Kumar Ghosh

FIRST CLASS

(In order of merit)

Sl. No.	Names
25.	Nripendra Narayan Bhattacharjee
26.	Surendra Mohan Chopra
27.	Kenneth G. D'Souza
28.	Sukumar Bhanja Choudhury
29.	Amiya Kumar Nath
30.	Prabir Kumar Kundu
31.	Rathindra Chandra Roy
32.	Diptendra Kumar Ghosh
33.	Bishnupada Datta Apurba Kanti Das Sarma
35.	Milan Kumar Ganguly
36.	Ram Deo Jha
37.	Arabinda Pal Dilip Kumar Khaitan
39.	Sankar Kumar Sen Sarma
40.	Jayanta K. Sen
41.	Dipak Ranjan Sen
42.	Prasanta Bhattacharya
43.	Tapan Kumar Ghosh
44.	S. Srinivasan
45.	Krushna Mohan Sahoo
46.	Susanta Ranjan Das Ashoke Kumar Mukhopadhyay
48.	Arun Kumar Chattopadhyay
49.	Somnath Mandal
50.	Ajoy Kumar Roy
51.	Pratap Chandra Ghosh
52.	Asesh Kumar Paul
53.	Pankaj Kumar Sikder
54.	Kishore Mohan Pattanik
55.	Sachchidananda Jana
56.	Dipak Chandra Banerjee
57.	Narendra Kumar
58.	Sankar Prasad Guha
59.	Alok Kumar Bhattacharyya
60.	Ajoy Kumar Brahmachary
61.	Salilkumar Guha
62.	Tarapada Mallick

63.	Jagadis Chandra Bagchi
64.	Anukul Chandra Das
65.	Tapash Kumar Gupta
66.	Pranab Roy

SECOND CLASS

(In order of merit)

	Names
67.	Karunamay Bandyopadhyay
68.	Nripesh Ranjan Chakrabarty
69.	Bijon Kumar Biswas Mati Lal Maity
71.	Naresh Chand Gupta
72.	Mohammad Idris
73.	Braham Datt Sharma
74.	Mantosh Chaudhuri
75.	Dipak Kumar Roy
76.	Probir Roy Choudhury
77.	Sunil Kumar Bhattacharya

CIVIL ENGINEERING

FIRST CLASS WITH HONOURS

(In order of merit)

Sl. No.	Names
1.	Amal Ranjan Achariyya
2.	Durga Pada Das
3.	Ajoy Kumar Gangopadhyay
4.	Utpalendu Bhattacharya
5.	Sankar Chakravorty
6.	Navaranjan Sen
7.	Sudarshan Kumar Kshetrapal

FIRST CLASS

(In order of merit)

	Names
8.	Suresh Chandra Paul Roy
9.	Basista Kumar Sen Gupta
10.	Amarjyoti Ghose
11.	Apurba Mukherjee

12.	Suprokash Sarker
13.	Bimal Kumar Sen Gupta
14.	Satyanarayan Mukherjee
15.	Basab Bhattacharyya
16.	Jiban Krishna Ghose
17.	Nirmal Banerjee
18.	Shyamal Kumar Basu
19.	Dilipkumar Bhattacharyya
20.	Amalendra Narayan Bhaduri
21.	Nitish Chandra Barori
22.	Jibendra Nath Majumdar
23.	Amal Krishna Ray
24.	Tushar Kanti Biswas
25.	Bimalangsu Kumar Basu Mullick
26.	Venkataratnam Pureti
27.	K. Raman
28.	Sanat Kumar Ghosh
29.	Asim Kumar Adhya
30.	Dhruba Prasad Ghosal
31.	Mihir Sen Gupta
32.	Dipak Chandra Chakrabarti
33.	Gouranga Prasad Agarwala

SECOND CLASS

Sl. No.	(In order of merit) Name
34.	Hari Sadhan Chakraborty

APPENDIX "D"

1.	University Medal	—For standing First in Mechanical Engineering at the Master of Engineering Examination.	—Bimaladas Banerji
2.	do	—For standing First in Civil Engineering at the Master of Engineering Examination.	—Nilay Chaudhury
3.	do	—For standing First in Mathematics at the Master of Science Examination.	—Rukmini Raman Giri
4.	do	—For standing First in Physics at the Master of Science Examination.	—Binoy Bh. Barman Roy
5.	do	—For standing First in Geological Sciences at the Master of Science Examination.	—Jibamitra Gangopadhyay
6.	do	—For standing First in Sanskrit at the Master of Arts Examination.	—Ananta Lal Gangopadhyay
7.	do	—For standing First in Philosophy at the Master of Arts Examination.	—Pradyot K. Mukhopadhyay
8.	do	—For standing First in History at the Master of Arts Examination.	—Mani Lal Chakraborty
9.	do	—For standing First in International Relations at the Master of Arts Examination.	—Kusum Lala Sobti
10.	do	—For standing First in Physics at the Bachelor of Science Examination.	—Manmatha N. Sarkar

11. University Medal	—For standing First in Chemistry at the Bachelor of Science Examination.	—Deb Prasad Ray
12. do	—For standing First in Geological Sciences at the Bachelor of Science Examination.	—Manas R. Bandyopadhyay
13. do	—For standing First in Comparative Literature at the Bachelor of Arts Examination.	—Damayanti Bose
14. do	—For standing First in Chemical Engineering at the Bachelor of Engineering Examination.	—Dipakeswar Bhattacharjee
15. do	—For standing First in Electrical Engineering (Power Option) at the Bachelor of Engineering Examination.	—Sourendra Nath Pal
16. do	—For standing First in Electrical Engineering (Communication option) at the Bachelor of Engineering Examination.	—Amiya K. Mallick
17. do	—For standing First in Mechanical Engineering at the Bachelor of Engineering Examination.	—Nityananda Chaudhuri
18. do	—For standing First in Civil Engineering at the Bachelor of Engineering Examination.	—Amal R. Acharjyya
19. Pramatha N. Bose Memorial Medal	—For standing First in Geological Sciences at the Master of Science Examination.	—Jibamitra Gangopadhyay
20. S. N. Bando Memorial Gold Medal	—For securing the highest aggregate of marks in all the courses of the Master of Science Examination.	—Rukmini R. Giri (Mathematics)

21. T. N. Deb Memorial Medal	—For standing First in the paper "Metallic Minerals" at the Master of Science Examination in Geological Sciences.	—Asoke Chattopadhyay
22. Jogendra N. Das Memorial Medal	—For standing First in English at the Master of Arts Examination.	—Manju Acharya
23. Bepin Ch. pal Memorial Medal	—For standing First in International Relations at the Master of Arts Examination.	—Kusum Lata Sobti
24. Satish Ch. De Gold Medal	—For standing First in the First Class securing the highest aggregate of marks in all the courses of the Master of Arts Examination.	—Ananta Lal Gangopadhyay (Sanskrit)
25. Puspa Roy Gold Medal	—For securing highest marks in the First Class among the girl students in all the subjects of the Master of Arts Examination.	—Kusum Lata Sobti (International Relations)
26. Hirendra N. Datta Memorial Medal	—For standing First in Essay at the Master of Arts Examination in Comparative Literature.	—Kamalesh Chattopadhyay
27. Sibapriaya Chatterji Memorial Medal	—For standing First in Physics at the Bachelor of Science Examination.	—Manmatha Nath Sarkar
28. Jatindra Krishna Medal	—For standing First in Chemical Engineering at the Bachelor of Engineering Examination.	—Dipakeswar Bhattacharji
29. Ashoke Memorial Medal	—For standing First in Electrical Engineering (Power Option) at the Bachelor of Engineering Examination.	—Sourendra Nath Pal

30. Kiron Ch. Roy Memorial Medal	—For standing First in Electrical Engineering (Communication Option) at the Bachelor of Engineering Examination.	—Amiya Kr. Mallick
31. Srish Chandra Bir Pratap Medal	—For standing First in Mechanical Engineering at the Bachelor of Engineering Examination.	—Nityananda Chaudhuri
32. S. N. Bando Memorial Gold Medal.	—For standing First in Civil Engineering at the Bachelor of Engineering Examination.	—Amal R. Acharjyya
33. Benoy Sarkar Memorial Gold Medal	—For securing the highest aggregate of marks in all the Courses of the Bachelor of Engineering Examination.	—Amal R. Acharjyya (Civil Engg.)
34. Arun K. Bandopadhyay Memorial Medal	—For securing the second highest agreegate of marks in all the courses of the Bachelor of Engineering Examination.	—Nityananda Chaudhuri (Mechenical Engineering)
35. Alumni Association Medal	—For being the best all-round graduate of the year.	—Punyada Prosad Bhaduri (Mechenical Engineering)
36. Sudhakar Barman Smriti Medal	—For standing First in the paper "Industrial Chemistry II" at the Bachelor of Engineering Examination.	—Pranab K. Dutta
37. Barindra Memorial Medal	—For standing First in the subjects Electric Power Transmission and Electric Power Distribution (combined) at the Bachelor of Engineering Examination,	—Sourendra Nath Pal

38. Ganesh Janani Debi Memorial Medal	—For securing the highest marks in the subjects—A. C. Machines I & II (combined) at the Bachelor of Engineering Examination in Electrical Engineering.	—Sourendra Nath Pal
39. Pramatha Nath Bose Bronze Medal	—For standing First in the subject—"General Geology" of Mechanical Engineering at the Bachelor of Engineering Examination.	—Prithvi Raj Daga Prabir K. Nag
40. Sarada Gold Medal	—For securing the highest marks in the Special paper "Public Health" at the Bachelor of Engineering Final Examination in Civil Engineering.	—Amal R. Acharjyya
41. M.N. Chakraborty Memorial Medal	—For securing the highest percentage of aggregate marks at the Intermediate Engineering Examination.	—Nityananda Chaudhuri
42. M.N. Chakraborty Memorial Medal	—For securing the highest marks in the paper "Electric Power Generation" at the Bachelor of of Engineering Examination (Power option).	—Sourendra Nath Pal Subir Chattopadhyay
43. Rector's Prize for the Best Student	—For academic and extracurricular attainments.	—Ananta K. Mitra
44. Rector's Special Prizes	—As the best cadets of the year who have been awarded the Governor's medals.	

1. Sri Ananta Kumar Mitra (Electrical Engineering 4th Year Class).
2. Sri Rana Krishna Majumder, (B. Sc. 1st Year Class).
3. Sri Alok Nath Choudhury, (Electrical Engineering 3rd Year Class)

APPENDIX 'E'

Students in Different Classes

Faculty of Arts (1960-61)

	English			Bengali			Sanskrit			Comp. Lit.			History			Economics			Philosophy			Int. Relations		
	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	II	I	II	III	I	II	III
Preparatory* ...																								
Degree ...	6	5	6	5	6	7	3	3	2	5	1	4	5	8	2	10	9	12	—	—	2	8	12	11
Post-Graduate ...	35	30	—	30	29	—	25	6	—	17	19	—	36	34	—	24	30	—	36	35	—	33	28	—

Faculty of Science (1960-61)

	Mathematics			Chemistry			Physics			Geological Science		
	I	II	III	I	II	III	I	II	III	I	II	III
Preparatory† ...												
Degree ...	35	22	23	30	21	17	35	19	10	20	34	19
Post-Graduate ...	31	37	—	10	9	—	10	13	—	19	17	—

Faculty of Engineering & Technology (1960-61)

	Mechanical				Electrical				Civil				Chemical				Food Technology				Tele-Com. Engg.			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Degree ...	99	130	114	97	98	46	96	82	101	132	107	86	66	64	65	64	—	—	—	—	45	45	42	25
Part-time ...																								
Evening Course ...	14	16	—	—	21	8	—	—	62	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Post-Graduate ...	6	—	—	—	—	—	—	—	1	—	—	—	3	—	—	—	3	—	—	—	—	—	—	—

*Total number of students—32

†Total number of students—80

APPENDIX 'F'

RESEARCH AND PUBLICATIONS

SANSKRIT

Publications :

Ramaranjan Mukherjee—

1. The Inscriptions of Bengal of the Pala Period—Edited with English Translation and Notes. (Ready for publication)

Sitanath Goswami—

1. Isopanisad—Edited with English translation paraphrase, Sarikarabhasya, editor's own Sanskrit commentary named vivarana, elaborate notes in English, Bengali translation and exposition in Bengali (In the press.)
2. Bigraha O Kabikalpana—Swastika, June 1960.
3. Mahamohopadhyaya Jogendranath—Devajan, Ashar, 1967.
4. Mahamohopadhyaya—Swastika, June 1960.
5. Rashagangadhare Rasasvarupam (2), Manjusha, September 1960.
6. Our Guru—The Mother, May, 1960.
7. Rashtriya Dhawaja—Swastika, July, 1960.
8. Rakhi Bandhan—Swastika, August 1960.
9. Advytacharya—Darshan, Baisakh, 1967.
10. Asha—Swastika (Puja Sankhya), 1967.
11. Barshapratipad—Swastika, March, 1961.

Gopikamohan Bhattacharya—

Book :

1. Studies in Nyaya—Vaisesika Theism (Thesis approved for the D. Phil. degree, Calcutta University)—Published in the Calcutta Government Sanskrit College Research Series 1961.

Articles :

1. Premchand Tarkavagisa—Pravasi 1960.
2. E. B. Cowell and Sanskrit College—Sanskrit College Journal 1960.
3. Mahamohopadhyaya Jogendranath Tarkavedantatirtha—Sanskrit Sahitya Parishat Patrika, November and December 1960.

BENGALI

Publications :

Madanmohan Goswami—

1. Bharat Chandra (Sahitya Academi 1961 New Delhi.)
2. Bharat Chandrer Vidya Sundarer Purba Parichaya—(ভারতচন্দ্রের বিদ্যাসুন্দরের পূর্ব্বপরিচয়)

   (Prabandha—Kayastha Samaj Patrika, 1961.)

Ajit Kumar Datta—

1. Bangla Sahitye Hashyarash. (বাংলা সাহিত্যে হাস্যরস)

Krishnapada Goswami—

1. Disguised Compounds in the place names of Bengal.—(Bulletin of the Deccan College Research Institute—Vol. 20, Part 1-4, 1960.)
2. Perso-Arabic elements in place names of Bengal.—(Bulletin of the Philological Society of Calcutta—Vol. I, June, 1960.)
3. Sibilants and Glottal Fricative "h" in North East Bengal Dialects.—(Bulletin of the Philological Society of Calcutta—Vol. II, 1961.)

INTERNATIONAL RELATIONS

Publications :

P. C. Chakravarti—

1. Genesis of the Partition of Bengal—Modern Review—November, 1960.
2. India-China Relations.—Indiana University (under publication.)

G. P. Bhattacharjee—

1. M. N. Roy and Radical Humanism—J. B. H. Wadia Publication—Bombay, 1961.

Jayanta Kumar Ray—

1. Spy plane and International Law—ANVIL—May, 1960.
2. South Africa—ANVIL April, 1960.
3. The Web of International Relations—329 pp. Progressive Publishers, Calcutta 1961. (In collaboration with another.)

ECONOMICS

Publications :

A. Ghosh—

1. Inflation in a Planned Multi-sector Growth Process. Arthanithi Vol. III, No. II, 1960.
2. Wage Profit Relations in a Developing Economy. —Indian Economic Journal, December, 1960.
3. Implications of Regional Balance in Planned Growth. —Indian Economic Journal, Oct., 1960.
4. The consumption function in the light of Recent Controversies. (To be published in the Indian Economic Journal.)
5. The Cement Industry in India under Five-Year Plans. Assisted by R. Dhar). —(A study of Efficiency in location and Inter-regional flow during 1950-59) Mimeographed —Sept., 1961. (to be published in the Economic Analysis, and Policy series— North Holland Publishing Company, Nedarlands.)

CHEMISTRY (Inorganic)

Publications :

A. K. Majumdar & A. K. Mukherjee--

1. Separation of niobium and tantalum from zirconium with salicylhydroxamic acid. —Anal. Chim. Acta. 22, 25 (1960.)
2. Estimation of niobium and tantalum in presence of various ions and in steel by N-benzoyl-N-phenyl-hydroxylamine. —Analyst (Communicated.)
3. Determination of niobium and tantalum with cinnamylhydroxamic acid and N-cinnamoyl-N-phenylhydroxylamine. —Anal Chim. Acta (22, 514 1960.)
4. Separation of niobium, tantalum, titanium and zirconium from each other.— Anal. Chim. Acta. 23, 247 (1960)

A. K. Majumdar & C. P. Savariar—

1. Spectrophotometric determination of molybdenum with 9-methyl-2, 3, 7, trihydroxy-6-fluorone. —Anal. Chim. Acta. 22, 158 (1960.)
2. O-carboxyphenylazo chromotropic acid (sodium salt) as an analytical reagent, Part I. Chelatometric titration of thorium, zirconium and iron. —Z. Anal. Chem. 174, 197 (1960.)

3. O-carboxyphenylazo chromotropic acid (sodium salt) as an analytical reagent, Part II, Spectrophotometric determination of thorium, and aluminium. —Z. Anal. Chem. **174**, 269 (1960.)
4. Spectrophotometric determination of beryllium and zirconium using chromotrope-2C. —Z. Anal. Chem. **176** 170 (1960.)
5. Spectrophotometric determination of zirconium with 9-methyl-2, 3, 7-trihydroxy-6-fluorone. —Z. Anal. Chem. **178**, 352 (1961.)

A. K. Majumdar & J. G. Sengupta—

1. Spectrophotometric determination of osmium III-O-Aminophenol-p-sulphonic acid as a reagent. —Anal. Chim. Acta. **22**. 306 (1960.)
2. Spectrophotometric determination of platinium, anthranilic acid as a reagent.—Z. Anal. Chem. **177**, 265 (1960.)
3. Spectrophotometric determination of ruthenium, anthranilic acid as a reagent. Z. Anal. Chem, **178**, 401 (1961.)
4. Spectrophotometric determination of osmium. Part IV. m-aminobenzoic acid as a reagent. —Z. Anal. Chem. **179**, 13, (1961.)

A. K. Majumdar & S. P. Bag—

1. Spectrophotometric studies on the nature of iron complexes with pyridine and quinolinecarboxylic acids. Anal. Chim. Acta. **22**. 549 (1960.)
2. Gravimetric determination of palladium with quinolinimide as a reagent. (Communicated.)
3. Spectrophotometric determination of Iron with b-amino-picolinic acid. (Communicated.)
4. Spectrophotometric determination of Iron with Chelidamic acid. (Communicated.)
5. Separation of titanium from zirconium by cheledonic Acid. (Communicated.)

A. K. Majumdar & B. K. Pal—

1. Paper chromatography in the separation of ions. Separation of alkali and alkaline earth metals. Z. Anal. Chem. **175**, 429 (1960)
2. Gravimetric estimation of niobium and tantalum with quinaldinohydroxamic acid (Communicated.)

3. Spectrophotometric determination of Niobium with 9-methyl 2 : 3 : 7 trihydroxy-6-fluorone. (Communicated.)

A. K. De and S. M. Khopkar—

1. Simultaneous extraction and spectrophotometric determination of cerium (iv) with TTA— Anal. Chem. **32** 478 (1960.)

A. K. De and S. K. Majumdar—

1. Extraction of chromium (III) with TTA.— Anal. Chem. **32**, 1337 (1960).
2. Liquid—liquid extraction of iron (III) with TBP. *Talanta*, **7**, 1 (1960.)
3. Liquid—liquid extraction of vanadium with TBP—Anal Chem. **33**, 294 (1961.)

S. M. Khoppkar & A. K. De—

1. Rapid extraction & spectrophotometric determination of uranium (vi) with TTA.—Analyst, 85, 379 (1960.)
2. Cation exchange behaviour of barium on Dowex 50W-X8-Anal. Chem. Acta, **23**, 441 (1960.)

ORGANIC CHEMISTRY

Research :

J. Dutta and R. Biswas—

1. Synthesis of Methyl 1, 4-Dimethyl-6-oxo-1, 2, 3, 4, 4a, 5, 6, 7, 8, 8a-decahydronaphthoate (work completed.)

J. Dutta and collaborators—

1. Synthesis of 5-Hydroxy-8-isopropyl-1, 2, 3, 4-terahydro-2-naphthcic Acid and 8-Isopropyl-5-methoxy-1, 2, 3, 4-tetrahydronaphthol-1 (work completed.)

Publications :

W. S. Johnson, J. J. Korst, R. A. Clement and J. Dutta—

1. The Nature of the Intermediary Ketols in the Robinson Annelation Reaction. J. Amer. Chem., **82**, 614 (1960.)

D. K. Banerjee, J. Dutta, A. S. Rao and E. J. Jacob.

1. Synthetic Investigation on the Building of Ring A of Steroids. Tetrahedron, **8**, 163 (1960.)

L. F. Fieser, T. Goto and B. K. Bhattacharyya—

1. Identification of Ketone 104 as 3, 4-Secocholestane-6-one-(3a, 5a) (3b, 4)-dioxide. J. Amer. Chem. Soc., **82**, 1700 (1960.)

2. Reactions of Ketone 104. J. Amer. Chem. Soc., 82, 1706 (1960.)

J. Dutta and R. Biswas—

1. Studies in Dieckmann Cyclisation. Part I. Cyclisation of Triethyl 2-Methylpentane-1, 2, 5-tricarboxylate. J. Indian Chem. Soc., 00, 0000 Studies in Dieckmann Cyclisation. Part II.
2. Dieckmann Cyclisation of Trimethyl 2-Methylhexane-1, 2, 5—tricarboxylate. J. Indian Chem. Soc., 00, 0000.

PHYSICAL CHEMISTRY

Research :

S. N. Mukherjee & Anima Chakravarty—

1. Polarographic Investigations.

During the period under review the work on the effect of viscosity on the half-wave potential and diffusion current was brought to a close and a short paper based on the results obtained was published. The polarographic work was extended to the effect of the nature and concentration of the supporting electrolytes on the half-wave potential and the diffusion current in the case of a number of ions such as Cd, Zn, Ni, Co, Fe (ous and ic) and ferricyanide ions. The case of the ferricyanide ion offers some difficulties in not being reproducible in spite of best precautions. The subject is being pursued further. Results are being simultaneously correlated with viscosity data. One paper on these results are ready for communication.

S. N. Mukherjee and V. K. Kulshrestha—

1. This line of work was pursued upto December 1960 in collaboration with a Junior Research Fellow from the C. S. I. R. The results obtained so far on the infra-red spectrography, Differential Thermal Analysis and on the polyelectrolytic behaviour of the gums and their complex acids have been the subject matter of the Ph. D. thesis of of the Jadavpur University for the Junior Research Fellow. The matter covered in this work is specially the infra-red spectroscopy of some four gums, their complex acids and their constituent sugars. A correlation of the observations made was attempted, One paper was published on this subject.

S. N. Mukherjee and Amalendu Haldar—

1. High Frequency Titration :

In the period under review the standardisation of the titration cell was attempted by trial and error. Different parameters viz., the nature of glass of the beaker, the thickness of the glass, the width of the metal strips, their distance apart and the nature of metals used as strips round the beaker were all worked out.

K. K. Rohatgi & P. Bhattacharya—

1. Investigation on Photochemical Reactions—

The rate of thermal and photochemical oxidation of glycerol by potassium dichromate has been studied with respect to variation in (i) glycerol concentration (ii) dichromate concentration and (iii) hydrogen ion concentration. The rate was followed by a method developed in this laboratory. The initial photochemical rate was found to vary linearly with glycerol concentration, (1.74 M—3.49 M). Rate with dichromate concentration appeared to vary linearly between 0.005 M—02.5 M but tended to fall off sharply at low dichromate concentrations. Variation with H^+ followed a cubic relation.

The radiation source was standardised by ferri oxalate actinometry.

K. K. Rohatgi & G. S. Singhal—

1. Resonance Energy Transfer between Fluorescent Molecules :

Mechanism of concentration quenching in alkaline fluorescein solution :—Attempt is being made to obtain true value of quenching constant by applying appropriate corrections for changes in refractive index, absorption-re-emission process, geometry of the measuring arrangement etc. Incidentally a method has been developed for the measurement of average extinction coefficient (E_2) for reabsorption of fluorescence radiation of fluorescein solution through itself. It is found to be a function of total number of absorbing units in the light-path. The instrument has been standardised in absolute units for Hg lines.

M. N. Das and K. K. Kundu—

1. Nonaqueous Acid-Base Titration :

Work has been continued on acid-base equilibria in ethylene and propylene glycols. For checking the pK values of acids and bases in these media as already determined, E^0 for Ag/AgBr electrode has been measured for both the solvents, and pK values re-determined. Previous results have been confirmed. Theoretical calculations of thermodynamic quantities involved have been made.

M. N. Das and A. K. Chaudhuri—

1. Kinetics and Mechanism of Addition at Carbon-Carbon Double Bond.

Kinetics studies have been carried out on methoxymercuration of cinnamic ester. The results suggested an ionic mechanism, as found for acrylic and methacrylic esters. Somewhat different results have been obtained with acrylonitrile. Work with other unsaturated compounds is in progress.

Publications :

K. K. Rohatgi—

1. Kinetics of Thermal and Photochemical Oxidation of Glycerol by Potassium Dichromate. Pt I—Effect of H. concn—Proc. Natl. Inst. Sci. of India **26A**, No. 5, 507, 1960.

K. K, Rohatgi & P. P. Bhattacharya—

1. A Complexometric Method for the Study of Kinetics of Oxidation of Organic Compounds by Potassium Dichromate. J. Sci. Industr. Res. **20B**, 78, 1961.

K. L. Mallik & M. N. Das—

1. Studies on Kinetics of Addition of Secondary Amines to Acrylic Esters.—Z.Physik. Chem., **25**, 205, 1960.

K. L. Mallik.—

1. Mercaptans as Chain Transfer Agents in Emulsion Polymerization.—J. Inst. of Chem., 1961.

L. Pochhali—

1. Distribution of two Ions Between Ion Exchanger and Solution.—Jour. Indian Chem. Soc., Vol. 37, 451, 1960.

2. Ion-exchange Reaction with Heteroionic Synthetic Resins. Part I. Cation Exchange.—Jour. Indian Chem. Soc. Vol. 37, 521, 1960.
3. Ion-exchange Reactions with Heteroionic Synthetic Resins. Part II. Anion Exchange.—Jour. Indian Chem. Soc., Vol. 37, 527, 1960.

S. N. Mukherjee, A. M. Ghosh and (Mrs.) A. Chakravarty—

1. Effect of Viscosity of the Media on the Half-Wave Potential and Diffusion Current in Polarography. J. Sci. Ind. Res., Vol. 20B, 77, 1961.

Papers Communicated :

(Miss) K. K. Rohatgi & G. S. Singhal—

1. Average Extinction Coeffiuient for Reabsorption of Fluorescence Radiation Through Uranin Solution.—Nature.

(Miss) K. K. Rohatgi—

1. Life-times of Excited States of Molecules and their Determination. A Review. Sir P. C. Roy Commemoration Volume of J. Indian Chem. Soc.
2. Fluorescence Life-times of Fluorescein Anion.—Z. Physic. Chemic.
3. Solvent Effect on Life-times of Fluorescein Anion.—J. Chem. Phys.

S. N. Mukherjee & Miss B. Roy—

1. High Frequency Titration of Mercaptus.—(Science and Culture).

Books Published :

S. N. Mukherjee—

1. Introduction to Physical Chemistry. Vol. III.
2. Life of some Eminent Scientists (in Press).

GEOLOGICAL SCIENCES

Publications :

B. C. Mukherjee & Ajit Bhattacharyya—

1. Petrologic studies of unwashed and washed coals from the Kargali Coal Washery, East Bokaro coalfields, Hazaribagh District and their relevance to coal beneficiation.—Proc. N.I S.I., Vol. 27, A No. 1, 1961.

Ajit Bhattacharyya—

1. Petrology of Assam coal.—Proc. Ind. Sci. Cong. 48th session, 1961.

P. S. Chakravarty—

1. Structural control of Tungsten mineralisation around Chhendapathar, Bankura Dist., West Bengal.—Proc. Ind. Sci. Cong. 48th Session, 1961. Abstract.

P. S. Chakravarty (joint paper)—

1. Nappe structures in India.—Basudha, Journal of the Bhu-Bijnan Parishad, Jadavpur University, Vol. 1.
2. Mineral resources of West Bengal in relation to structure and Stratigraphy.—Basudha, journal of the Bhu-bijnan Parishad, Jadavpur University, Vol. 1.

Kanai Lal Chakravarty & Sachinath Mitra—

1. Mineralogical and textural study of the chrome ores of Cuttack District.—Proc. Ind. Sci. Cong. 48th Session, 1961.

Bankim Mukherjee—

1. Studies on chemical, petrological, reflectivity and electrical conductivity characters of Jharia XIV seam coal, affected by igneous intrusives from Keshargarh Colliery, Dhanbad Dist., Bihar.—Proc. Ind. Sci. Cong. 48th Session, 1961.

Kanai Lal Chakravarty & Prabir Kumar Guha—

1. Notes on the chromite deposits of Kankauli and Vagda, Ratnagiri Dist., Maharashtra.—Proc. Ind. Sci. Cong. 48th Session, 1961.

Supriya Roy—

1. Mineralogy, texture and paragenesis of Manganese ores of Bharweli Mine area, Balaghat Dist., Madhya Pradesh. Proc. Ind, Sci. Cong. 48th Session, 1961.
2. A study of Jacobsites and associated minerals from the manganese ores of Garbham Mine area, Srikakulam Dist., Andhra Pradesh.—Proc, Ind. Sci. Cong. 48th Session, 1961.
3. Mineralogy and texture of the manganese ores of Kodur, Srikakulam Dist., Andhra Pradesh.—The Canadian Mineralogist, Vol. 6, Pt. 4, 1960.

Kanai Lal Chakravarty—

1. Note on the mineralogy of the malacolite-pyroxenite rocks of Nausahi, Keonjhar Dist., Orissa.—Q. Jr. Geol. Min. Met. Soc. India, Vol. XXXII (1960).

S. Deb—

1. Recent trend in the microscopic studies of metallic minerals of India.—Published in Silver Jubilee Volume of the National Institute of Sciences of India, 1961.

Karun C. Mitra—

1. Gerontic thickening in Rhynchoncllid.—Journal Pal. Soc. Ind., Vol. II, 1961.

Sachinath Mitra—

1. Chromite occurrences around Saruabil, Cuttack Dist., Orissa.—Indian Minerals. Vol. XIV, No. 4, 1960.
2. Origin of the 'Spherulitic' Magnesites at Somushwar, Almora Dist., U. P.—Science and Culture, Vol. 26, 1960.
3. Mineragraphy of the iron ores of the Daiteri, Cuttack Dist., Orissa.—Science and Culture, Vol. 25, 1960.
4. Trace elements in the chromite ores of Saruabil, Cuttack Dist., Orissa.—Science and Culture, Vol. 26, 1960.
5. A study of the chromite-bearing intrusives around Saruabil, Cuttack Dist., Orissa.—Proc. Ind. Sci. Cong. 48th session, 1961.

Subir Kumar Ghosh (jointly with K. Naha)—

1. Archaean Palaeography in eastern and northern India. Geological Magazine, Vol. 97, No. 5, 1960.

S. K. Chanda—

1. Petrology and Genesis of the Green Bed of Chui Hill, Jabalpur, M. P.—Science & Culture, Vol. 26, Nov. 1960.
2. On certain structures of heavy minerals of the Assam Tertiaries and their geologic implications.—Geol. Min. Met. Soc. Ind., Vol. XXXII, No. 3.

B. C. Mukherjee & Kalyan Roy—

1. Studies on deformation characteristics of conglomerates along shear zone between Gandamara and Toira, Singhbhum Dist., Bihar.—Proc. N.I.S.I., Vol. 26A, No. 6, 1960.

PHYSICS

Publications :

S. N. Sen & A. K. Ghosh—

1. Equivalent pressure concept in crossed electric and magnetic field in electrodeless discharge.—Ind. J. Phys. 35, 101, 1961.

2. Modification of Scott's Circuit in measuring high vacuum with a Pirani gauge.—Jour. Sci. & Ind. Research 20D, 167, 1961.
3. Variation of Townsend's second coefficient in an electrodeless discharge.—Proc. Phys. Soc. (Lond.) (in Press).
4. Variation of Townsend's second coefficient in crossed electric and magnetic field.—Proc. Phys. Soc, (Lond.), (in Press).

S. K. Ghosh—

1. Propagation of elastic disturbance through a medium exhibiting gradient of elasticity.—Ind. J. of Phys. 1961.

T. C. Roy—

1. Density of Stes in Quantum Electrodynamics.—Ind. J. of Phys. 44, 1961.

   Compton Scattering with polarised photon.—Phys. Rev. Letters (in Press).

D. Sen—

1. A self consistent approach to the nuclear potential.—Proc. Nat. Inst. Sciences, India. (in Press).

A. Choudhury—

1. F-absorption due to high pressure.—Naturwissenschaften, 1961.
2. On magnetic and luminiscent centres induced in the crystal of Lithium fluoride by x-ray irradiation.—Nuovo Cimento (in Press).
3. Magnetic and luminiscent properties of X-ray & Y-ray irradiated crystals of Lithium fluoride & sodium chloride.—Low Energy Nuclear Physics Symposium, Bombay, 1961.

MATHEMATICS

Publications :

B. Sen—

1. Direct Methods of solving two-dimensional problems of Elasticity. Proceedings of the Symposium on Elasticity, Plasticity and Rheology. Bull. Cal. Math. Soc. Vol. 52 (1960) pp. 90-91.

M. Mitra—

1. On the solution of problems of Dynamic Plane Elasticity for Anisotropic media,—Quarterly Journal of Mechanics

and Applied Mathematics. Vol. XIII (1960). pp. 369-373.

2. On the application of Cagniard's method to dynamical problems of elasticity—Gerlands Beitrage zur Geophysik Vol. 69 (1960). pp. 73-86.

A. K. Mitra—

1. Note on the torsional oscillations of discs of some simple exponential profiles.—Bull. Cal' Math. Soc. Vol. 52 (1960). pp. 51-53.
2. Note on the torsional vibration of a beam with varying rigidity.—Applied Physics Quarterly Vol. VI (1960). pp. 30-31.

S. R. Khamrui—

1. On the oscillations of a circular cylinder in a viscous liquid contained in a co-axial circular cylinder Bull. Cal. Math. Soc. Vol. 52 (1960).
2. On the rotation of a spheroid of small ellipticity in a viscous liquid.—Bull. Cal. Math. Soc. Vol. 52 (1960).
3. On the flow of a viscous liquid between two confocal elliptic cylinders under periodic pressure gradient.—J. Sc. Engg, Research, India (1960).

Bikas Ranjan Das—

1. Thermo-elastic stresses in an infinite slab resting on an insulating plane and having an isolated heat source at the upper surface.—Published in ZAMM Band 41 (1961).

CHEMICAL ENGINEERING

Reesarch :

1. Production of elemental sulphur from natural sulphides (continued from previous year) under the Government of India Research Training Scheme.
2. "Flow of non-Newtonian fluids" (continued from previous year) under the Government of India Research Training Scheme.
3. "Sinking velocity of non-spherical particles in liquids" under the Government of India Research Training Scheme.
4. "Extraction of lactic acid by organic solvents—study of the distribution and mass transfer rates in continuous pulse extraction columns" under the Government of India Research Training Scheme.

5. "Pressure leaching of copper ores and reduction of leach solution with a reducing gas" (continued from previous year) under the C. S. I. R. Scheme.
6. "Design of Dust Filter" (continued from previous year) under the C. S. I. R. Scheme.
7. "A study of submerged combustion" (continued from previous year) under the C. S. I. R. Scheme.

Publications :

K. C. Roy Chowdhury—

1. "Magnetic oxygen meter."—Proceedings of the Symposium on "Instrumentation," A. C. College of Technology, Madras, January, 1961.

A. P. Sinha—

1. "Effect of surface active agents on the coefficient of friction between gas and liquid."—proceedings of the 21st Conference of Moscow Institute of Chemical Engineering, Moscow, April, 1960.
2. A booklet entitled "Rapid Mass transfer in the presence of surface active agents."—Moscow Institute of Chemical Engineering, Moscow. February, 1961.

CIVIL ENGINEERING

Research :

1. B. N. Ghose, Lecturer completed his thesis on "An experimental study of Mild Steel and Twin-twisted Steel used as compressive reinforcement in Reinforced Concrete Beam." The thesis has been submitted to the University as part fulfilment of his M. C. E. Examination in 1960 (which has since been approved by the University for the award of M. C. E. Degree.)
2. S. Das, Lecturer completed his thesis on 'Behaviour of Twin-twisted bars as tensile reinforcement in Reinforced Concrete Beams without Web reinforcements." The thesis has been submitted to the University as part fulfilment of his M. C. E. Examination in 1960 (which has since been approved by the University for the award of M. C. E. Degree.)
3. The undermentioned teachers who have registered for the Post-graduate course of the University for the Degree of M. C E. have been assigned research problems for part compliance to the requirements, as indicated against each of them :

(a) Girija Bhusan Chakravarty—

"Behaviour of twin-twisted bars as tensile reinforcement in Reinforced Concrete Beams with Web reinforcement."

(b) Nirmal Kanti Majumdar—

"An analytical and experimental study of the Rectangular Reinforced Concrete Grid floor under Vertical loads."

(c) Ratan Das Gupta—

"An experimental and analytical study of the Diagonal Grid floor in Reinforced Concrete subjected to vertical loading."

(d) Mrinmoy Das—

"An experimental and analytical study of the effect of Wind forces on a multi-storeyed building frame."

4. K. Ray and B. Karunesh are continuing with "Soil Mechanics in relation to Pile Action."
5. P. Som is studying "Distribution of stress in the anchor Zone of Pre-stressed Concrete Beams."
6. K. Ray and B. N. Ghose are studying "Effect of Continuity in Building Frame Design.
7. K. Ray and S. Das are studying "On Analysis and Behaviour of Cylindrical Shell—single barrel as well as double barrel—subjected to gravity loading.
8. K. Ray and U. Bhattacharya are studying "Stress analysis of a Mansard Roof Truss".

Publications :

P. Som—

1. "Analysis of Plane R. C. Grids by method of Two stages." Published in "Indian Engineer" (Accepted for publication in March 1961 and since published in June, 1961.)

MECHANICAL ENGINEERING

Research :

N. K. Das Talukdar & A. K. Roy—

1. "Stress Relieving in a Bar in Pure Bending with a Circular Discontinuity".

M. Bhattacharyya & R. K. Chakrabarti—

2. "To evolve a system for predicting the type and magnitude of residual stress from Welding technique, joint geometry and design and preventive and corrective measures.".

K. N. Kundu & R. K. Chakrabarti—

3. "Determination of the variation in Physical Strength and Stress Concentration Factors for different kinds and types of Welded joints.".

K. Dasgupta, R. K. Sarkar & R. K. Chakrabarti—

4. "Design, Construction and Calibration of a Bearing Testing Machine".

R. K. Sarkar, K. Dasgupta & R. K. Chakrabarti—

5. 3rd phase of the work done in Item 1.

K. C. Das & R. K. Chakrabarti—

6. "Evaluation of Stress Concentration Factors for Initially Curved Beams with Circular Holes for different d/w ratio under pure bending."

   Presented at the Seventh Congress of Theoretical and Applied Mechanics held in Bombay on 23-26th December, 1961.

TELE-COMMUNICATION ENGINEERING

Publications :

J. S. Chatterjee—

1. Magnetic Disturbances and the Earth's Magnetic Field.— Jour. Geo. Res., Vol. 66 No. 5 May, 1961, pp. 1535-1545.

A. R. Saha—

1. A Transistor Oscillator having output Frequency Proportional to the D. C. Supply Voltage.— Journal of Electronics & Control. Vol. No. 10, No. 3, pp. 181-190. March 1961.

U. S. Ganguly—

1. Linear Frequency Discriminator.— Electronic Technology, Vol. 38, No. 11, Nov., 1961, pp. 401-406.

STATEMENT OF ACCOUNTS (1960-'61)

Jadavpur University

JADAVPUR

GUPTA & MITRA

Chartered Accountants.

A. B. GUPTA, B.Sc., LLB. (BELF).
F.C.A. (ENG. & WALES). F.C A.

S. N. MITRA, B.Sc., B.COM. (LOND.).
F.C.A. (ENG. & WALES), F.C.A.

Phone : 23-3846
WINDSOR HOUSE
P14, MISSION ROW EXTENSION,
CALCUTTA-1.

29th September, 1961.

The Registrar,
JADAVPUR UNIVERSITY,
Jadavpur.

Dear Sir,

RE: AUDIT 1960–61

In submitting herewith the audited Balance Sheet as at 31st March 1961 together with the Income & Expenditure Account for the year ended upon that date, we have to make the following observations.

1. Excess of Expenditure over Income for the year excluding depreciation charge of Rs. 3,35,748.35 amounts to Rs. 1,71,348.68.

During the year under report, Ad-Hoc Grant of Rs. 13,16,194.00 and arrears of Maintenance Grant of Rs. 1,51,809.00 were received towards wiping off the accumulated deficit of Rs. 20,57,855.13 as stated in our last report dt 21. 11. 60.

2. On the closing date the following credit balances stood in the various accounts viz.

(a)	Ear-Marked Funds	Rs. 2,56,307.74		
	Less invested	Rs. 1,02,231.56		Rs. 1,54,076.18
(b)	Deposit and unpaid amounts :—			Rs. 2,02,079.86
(c)	Balance of Government Grants :			
	Recurring	Rs. 24,239.88		
	Non-Recurring	Rs. 2,24,538.95		Rs. 2,48,778.83
(d)	Stipend and Scholarships			Rs. 1,18,904.84

All these appear to have been spent to meet the accumulated deficit in as much as they are not represented by cash at Bank. This should be restored.

Yours faithfully
GUPTA & MITRA

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March, 1961

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
	Capital		
	Balance carried forward from total Revenue Account ...	9,60,905.97	
	Less Balance as per last a/c ...	1,09,529.03	8,51,376.94
	Building Loan Redemption Fund		
	As per last account ...	1,82,334.75	
1,82,334.75	*Add* during the year ...	60,778.25	2,43,113.00
	Capital Grant—Govt. of India		
	(a) Equipment for Degree Courses in Engineering		
17,42,000.00	As per last account ...	17,42,000.00	
	(b) Equipment for Post Graduate Courses in Engineering Geology		
40,000.00	As per last account ..	40,000.00	
	(c) Equipment for Research Development in Chemical Engineering		
20,000.00	As per last account ...	20,000.00	
	(d) Equipment for Fundamental Research		
	As per last a/c 78,664.48		
	Less refunded during the year 2,385.15		
	76,279.33		
78,664.48	*Addition* during the year 37,715.00	1,13,994.33	
	(e) Building for existing Degree Courses in Engineering		
5,84,715.00	As per last account ...	5,84,715.00	
	(f) Library Building & Reading Room		
75,000.00	As per last account ...	75,000.00	
	(g) Building for Recreation Hall Cum. Auditorium		
35,000.00	As per last account ...	35,000.00	
	(h) Text Book for the College of Arts & Science		
20,000.00	As per last account	20,000.00	26,30,709.33
27,77,714.23	Carried over ...		37,25,199.27

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
	Endowment (Buildings & Landed Property)		
	Mrs. P. Roy & Mr. U. N. Roy	1,93,000.00	
6,93,000.00	Kumar P.N. Roy Charitable Trust	5,000,00.00	6,93,000.00
	Building Structures & Development		
	As per last account ...	18,11,484.33	
18,11,484.33	*Less* Depr. @ 2½% ...	45,287.10	17,66,197.23
	Post Office Building		
	As per last account	16,647.69	
16 647.69	*Less* Depr. @ 2½% ...	416.19	16,231.50
	Building for Civil Engineering		
	As per last account ...	1,20,182.81	
	Less Depr. @ 2½% ...	3,004.57	
		1,17,178.24	
1,20,182.81	*Addition* during the year ...	5,34,698.90	6,51,877.14
	Building for Hydraulics Laboratory		
	As per last account ...	74,951.00	
	Less Depr. @ 2½% ...	1,873.80	
		73,077.20	
74,951.00	*Addition* during the year ...	1,96,647.99	2,69,725.19
	Building for N.C.C. Staff Quarters		
	As per last account ...	2,00,413.44	
2,00,413.44	*Less* Depr. @2½% ...	5,010.34	1,95,403.10
	Library Building & Reading Room		
	As per last account ...	3,87,581.27	
	Less Depr. @2½% ...	9,689.53	
		3,77,891.74	
3,87,581.27	*Addition* during the year ...	1,04,605.88	4,82,497.62
	Extension to Civil Engineering Building		
	As per last account ...	1,34,725.26	
	Less Depr. @2½% ...	3,368.13	
		1,31,357.13	
1,34,725.26	*Addition* during the year ...	3,26,087.71	4,57,444.84
	Building for Physics & Tele-Communication Engineering		
	As per last account ...	95,168.16	
	Less Depr. @2½% ...	2,379.20	
		92,788.96	
95,168.16	*Addition* during the year ...	2,35,419.64	3,28,208.60
35,34,153.96	Carried Over ...		48,60,585.22

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
27,77,714.23	Brought Forward ...		37,25,199.27
	Capital Grant (Contd.)		
	University Grants' Commission :		
	(a) Equipment for Degree Courses in Engineering		
2,29,668.00	As per last account ...	2,29,668.00	
	(b) Building for additional accommodation for Degree Courses in Engineering		
3,30,000.00	As per last account ...	3,30,000.00	
	(c) Equipment for Degree Courses in Civil Engineering		
	As per last a/c 1,75,000.00		
1,75,000.00	*Add* receipt during the year 40,000.00	2,15,000.00	
	(d) Equipment for expansion of Training Capacity of the Degree Courses in Engineering :		
	As per last a/c 3,19,832.00		
3,19,832.00	*Add* receipt during the year 1,00,000.00	4,19,832.00	
	(e) Equipment for Research Development in Physics :		
	As per last a/c 65,000.00		
65,000.00	*Add* receipt during the year 74,667.00	1,39,667.00	
	(f) Equipment for Research Development in Chemistry :		
65,000.00	As per last a/c ...	65,000.00	
	(g) Construction of Library Building & Reading Room :		
2,88,300.00	As per last a/c ...	2,88,300.00	
	(h) Building for Degree Courses in Civil Engineering :		
4,00,000.00	As per last a/c ...	4,00,000.00	
	(i) Building for expansion of Training capacity of the existing Degree Courses in Engineering :		
9,04,500.00	As per last a/c ...	9,04,500.00	
55,55,014.23	Carried over ...	29,91,967.00	37,25,199.27

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
35,34,153.96	Brought Forward ...		48,60,585.22
	Extension of Chemical Engineering Building for Library ;		
	As per last a/c ...	5,576.53	
	Less Depr. @ 2½% ...	139.41	
		5,437.12	
5,576.53	*Addition* during the year ...	1,709.83	7,146.95
	Building for College of Arts & Science		
	As per last a/c ...	3,30,428.87	
3,30,428.87	*Less* Depr. @ 2½% ...	8,260.72	3,22,168.15
	Extension of College of Arts & Science Building		
	As per last a/c ...	46,379.06	
	Less Depr. @ 2½% ...	1,159.47	
		45,219.59	
46,379.06	*Addition* during the year	3,923.18	49,142.77
	Post Graduate Science Building		
	As per last a/c ...	32,534.03	
	Less Depr. @ 2½% ...	813.35	
		31,720.68	
32,534.03	*Addition* during the year ...	97,378.00	1,29,098.68
	Building for Recreation Hall Cum Auditorium :		
	As per last a/c ...	35,431.57	
35,431.57	*Less* Depr. @ 2½% ...	885.79	34,545.78
	Gymnasium Shed :		
	As per last a/c ...	12,463.53	
	Less Depr. @ 10% ...	1,246.35	
		11,217.18	
12,463.53	*Addition* during the year ...	330.12	11,547.30
	Building for Students' Health Centre		
	As per last a/c ...	6,121.00	
6,121.00	*Less* Depr. @ 2½% ...	153.03	5,967.97
	New House Building :		
	As per last a/c ...	4,522.23	
	Less Depr. @ 2½% ...	113.06	
		4,409.17	
4,522.23	*Addition* during the year ...	12,885.67	17,294.84
40,07,610.78	Carried over ...		54,37,497.66

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES		Rs. nP.	Rs. nP,
55,55,014.23	Brought Forward		29,91,967.00	37,25,199.27
	Capital Grant (*Contd.*)			
	University Grants Commission			
50,000.00	(j) Major Repair of Work-shop As per last a/c ...		50,000.00	
1,00,000.00	(k) Construction of Hostels : As per last a/c *Add* receipt during the year	1,00,000.00 20,000.00	1,20,000.00	
95,000.00	(l) Books on Scientific & Technical Subject : As per last a/c ...		95,000.00	
1,10,000.00	(m) Books & Journals on Humanities As per last a/c *Add* receipt during the year	1,10,000.00 10,000.00	1,20,000.00	
19,344.90	(n) Temperature & Humidity Control in the Analytical Laboratory : As per last a/c ...		19,344.90	
80,000.00	(o) Equipment for Post Graduate Development & Research in Physics : As per last a/c ...		80,000.00	
80,000.00	(p) Equipment for Post Graduate Development & Research in Chemistry : As per last a/c ...		80,000.00	
26,666.00	(q) Equipment for Post Graduate Development & Research in Geology : As per last a/c *Add* receipt during the year	26,666.00 26,666.00	53,332.00	
3,334.00	(r) Equipment for P.G. Development & Research in Mathematics : As per last a/c ...		3,334.00	
61,19,359.13	Carried over ...		36,12,977.90	37,25,199.27

UNIVERSITY

31st March 1961 (Contd.)

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
40,07,610.78	Brought Forward ...			54,37,497.66
	Major Repair of Work-shop			
	As per last a/c ...		62,100.91	
	Less Depr. @ 10% ...		6,210.09	
			55,890.82	
62,100.91	*Addition* during the year ...		512.80	56,403.62
	By **Boiler Shed for Chemical Engineering :**			
	As per last a/c ...		2,430.11	
	Less Depr. @ 10% ...		243.01	
			2,187.10	
2,430.11	*Addition* during the year ...		7,924.02	10,111.12
	,, **Electric Installation & Fans :**			
	As per last a/c ...		63,826.88	
	Less Depr. @ 10% ...		6,382.69	
			57,444.19	
63,826.88	*Less* Sale of unserviceable fans		89.92	57,354.27
	,, **Gas & Water Connection :**			
	As per last a/c ...		25,105.19	
25,105.19	*Less* Depr. @ 10% ...		2,510.52	22,594.67
	,, **Gas Plant & Shed for Chemical Engineering & College Science :**			
	As per last a/c ...		11,914.25	
	Less Depr. @ 5% ...		595.72	
			11,318.53	
11,914.25	*Addition* during the year ...		5,416.25	16,734.78
	,, **Old Hostel :**			
	(i) Land			
3,25,262.23	As per last a/c ...		3,25,262.23	
	(ii) Building			
13,22,599.58	As per last a/c *Less* Depr. @ 2½%	13,22,599.58 33,064.99	12,89,534.59	
	(iii) Furniture & Fixture :			
71,100.47	As per last a/c *Less* Depr. @ 5%	71,100.47 3,555.03	67,545.44	16,82,342.26
58,91,950.40	Carried over ...			72,83,038.38

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
61,19,359.13	Brought Forward ...	36,12,977.90	37,25,199.27
	Capital Grant (*Contd*)		
	University Grants Commission		
	(s) Library Books for P. G. Development & Research in Science :		
	As per last a/c 50,000.00		
	Add receipt during the year 50,000.00		
50,000.00		1,00,000.00	
	(t) Construction of Students' Health Centre :		
	As per last a/c 15,000.00		
	Add receipt during the year 15,000.00		
15,000.00		30,000.00	
	(u) Library Books on P. G. Development & Research on International Relations & Comparative Literature :		
	As per last a/c 10,000.00		
	Add receipt during the year 16,000.00		
10,000.00		26,000.00	
	(v) Furniture for Civil Engineering :		
23,333.00	As per last a/c ...	23,333.00	
	(w) Equipment for Research Development in Geology :		
	Receipt during the year ...	25,000.00	
	(x) Furniture & Micro Film & Photo stat Equipment for Library Building :		
	As per last a/c 55,550.00		
	Add receipt during the year 20,000.00		
55,550.00		75,550.00	
	(y) Books for Civil Engineering Degree Course :		
16,667.00	As per last a/c ...	16,667.00	
62,89,909.13	Carried over ...	39,09,527.90	37,25,199.27

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
58,91,950.40	Brought Forward ...		72,83,038.38
	Mechanical Engineering Building		
	Construction during the year ...		18,519.73
	Food Technology Laboratory Building		
	Construction during the year ...		4,218.86
	University Staff Quarters		
	Construction during the year ...		13,921.20
	Furniture :—		
	(i) College Engineering existing Degree Courses :		
	As per last a/c 1,25,204.42		
1,25,204.42	*Less* Depr. @ 5% 6,260.22	1,18,944.20	
	(ii) Civil Engineering Increased Intake :		
	As per last a/c 26,796.60		
26,796.60	*Less* Depr. @ 5% 1,339.83	25,456.77	
	(iii) Mechanical Engineering Increased Intake :		
	As per last a/c 9,122.33		
9,122.33	*Less* Depr. @ 5% 456.02	8,666.31	
	(iv) Electrical Engineering Increased Intake :		
	As per last a/c 3,796.07		
3,796.07	*Less* Depr. @ 5% 189.80	3,606.27	
	(v) Telecommunication Engineering :		
	As per last a/c 20,774.23		
20,774.23	*Less* Depr. @ 5% 1,038.71	19,735.52	
	(vi) General Increased Intake :		
	As per last a/c 4,750.00		
4,750.00	*Less* Depr. @ 5% 237.50	4,512.50	
60,82,394.05	Carried over ...	1,80,921.57	73,19,698.17

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March, 1961 (Contd.)

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
62,89,909.13	Brought Forward ...	39,09,527.90	37,25,199.27
	Capital Grant (*Contd.*)		
	University Grants Commission.		
	(z) Construction of Building for Post Graduate development in Science :		
	Receipt during the year ...	3,25,000.00	
	a(i) Rehabilitation of Equipment for College of Engineering & Technology :		
	Receipt during the year ...	1,00,000.00	
	a(ii) Equipment for Post Graduate Course in Food Technology :		
	Receipt during the year	15,000.00	
	a(iii) Furniture for Post Graduate course in Food Technology :		
	Receipt during the year ...	10,000.00	43,59,527.90
	Government of West Bengal		
4,23,000.00	(a) Equipment for Chemical Engineering Department : As per last account ...	4,23,000.00	
4,07,102.00	(b) Building for Chemical Engineering Department : As per last account ...	4,07,102.00	
183.89	(c) Equipment for Over-Seer Course : As per last account ...	183.89	
32,500.00	(d) Equipment for Research Development in Physics : As per last account ...	32,500.00	
32,500.00	(e) Equipment for Research development in Chemistry : As per last account ...	32,500.00	
50,000.00	(f) Equipment for Civil Engineering Degree Course : As per last a/c 50,000·00 *Add* receipt during the year 57,500.00	1,07,500.00	
72,35,195.02	Carried over ...	10,02,785.89	80,84,727.17

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
60,82,394.05	Brought Forward ...	1,80,921.57	73,19,698.17
	Furniture (*Contd.*)		
	(vii) Library Building & Reading Room : As per last a/c 1,32,227.99 *Less* Depr. @ 5% 6,611.40	1,25,616.59	
1,32,227.99	*Addition* during the year 4,230,00	1,29,846.59	
	(viii) Library Micro Film & Photo Stat Equipment : As per last a/c 12,642.91 *Less* Depr. @ 5% 632.15	12,010.76	
12,642.91	*Addition* during the year 479.54	12,490.30	
	(ix) College of Arts & Science : As per last a/c 1,51,033.52 *Less* Depr. @ 5% 7,551.68	1,43,481.84	
1,51,033.52	*Addition* during the year Chemistry 4,893.46 Physics 3,918.10 Geological Science 2,077.94 General 21,720.02	1,76,091.36	
	(x) Ceiling Fans-College of Arts & Science : As per last a/c 13,570.56 *Less* Depr. @ 10% 1,357.06	12,213.50	
13,570.56	*Addition* during the year 1,815.97	14,029.47	
	(xi) Chemical Engineering : (Out of donated funds) As per last a/c 4,016.10 *Less* Depr. @ 5% 200.81	3,815.29	
4,016.10	(xii) Civil Engineering Degree Course : As per last a/c 33,138.74 *Less* Depr. @ 5% 1,656.94	31,481.80	
33,138.74			
64,29,023.87	Carried over ...	5,48,676.38	73,19,698.17

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
72,35,195.02	Brought Forward ...	10,02,785.89	80,84,727.17
	Government of West Bengal (*Contd.*)		
1,81,700.00	(g) Construction of Library Building and Reading Room : As per last account ...	1,81,700.00	
7,40,000.00	(h) Building for College of Arts & Science : As per last account ...	7,40,000.00	
3,25,000.00	(i) Equipment for College of Arts & Science : As per last account ...	3,25,000.00	
18,696.00	(j) Gas Plant & Shed for College of Science & Chemical Engineering : As per last account ...	18,696.00	
10,713.14	(k) Boiler shed for Chemical Engineering : As per last account ...	10,713.14	
2,10,733.06	(l) Building for National Cadet Officers Quarter : As per last account	2,10,733.06	
20,000.00	(m) Equipment for P. G. Development in Physics : As per last a/c 20,000.00 *Add* receipt during the year 20,000.00	40,000.00	
20,000.00	(n) Equipment for P. G. Development in Chemistry : As per last a/c 20,000.00 *Add* receipt during the year 20,000.00	40,000.00	
	(o) Equipment for P. G. Development in Geology : Receipt during the year	26,666.00	
	(p) Equipment for P. G. Development in Mathematics : Receipt during the year ...	1,666.00	
8,992.00	(q) Equipment for Chemical Engineering Research : As per last a/c ...	8,992.00	
87,71,029.22	Carried over ...	26,06,952.09	80,84,727.17

UNIVERSITY

31st March 1961 (Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
64,29,023.87	Brought Forward ...	5,48,676.38	73,19,698.17
	Furniture (*Contd.*)		
5,468.99	(xiii) Post Graduate Course in Food Technology : As per last a/c 5,468.99 *Less* Depr. @ 5% 273.45 5,195.54 *Addition* during the year 3,881.90	9,077.44	
10,153.35	(xiv) Major Repair Work-Shop : As per last a/c 10,153.35 *Less* Depr. @ 5% 507.67 9,645.68 *Addition* during the year 12,335.13	21,980.81	
	(xv) Ceiling Fans for N. C. C. Office : Purchase during the year ...	7,350.00	5,87,084.63
	Equipment		
6,69,865.17	(1) For College of Engineering and Technology Existing Degree Courses : (a) Mechanical Engineering (including Workshop) As per last a/c 6,69,865.17 *Less* Depr. @ 5% 33,498.26	6,36,366.91	
5,56,087.00	(b) Electrical Engineering : As per last a/c 5,56,087.00 *Less* Depr. @ 5% 27,804.35	5,28,282.65	
4,04,225.88	(c) Chemical Engineering : As per last a/c 4,04,225.88 *Less* Depr. @ 5% 20,211.29	3,84,014.59	
80,74,824.26	Carried over ...	15,48,664.15	79,06,782.80

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March, 1961 (Contd.)

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
87,71,029.22	Brought Forward ...	26,06,952.09	80,84,727.17
	Government of West Bengal (*Contd*)		
25,000.00	(r) Major Repair of Work-shop : As per last account ...	25,000.00	
8,333.00	(s) Books for Civil Engineering : As per last account	8,333.00	
1,65,000.00	(t) Building for additional accommodation for existing Degree courses in Engineering: As per last account ...	1,65,000.00	
2,00,000.00	(u) Building for Civil Engineering Degree Courses : As per last account ...	2,00,000.00	
11,667.00	(v) Furniture for Civil Engineering As per last account ...	11,667.00	
2,42,399.00	(w) Furniture for College of Arts and Science : As per last account ...	2,42,399.00	
16,840.00	(x) Fans for the College of Arts and Science ; As per last account ...	16,840.00	
	(y) Books for development of P.G Courses in International Relations & Comparative Literature : Receipt during the year ...	13,000.00	
	(z) Construction of Food Processing Laboratory : Receipt during the year ...	30,000.00	
	a(1) Construction of P. G. Science Building : ... Receipt during the year ...	1,46,500.00	
2,000.00	a(2) Books for P. G. Courses in Engineering Geology : As per last account ...	2,000.00	
9,725.00	a(3) Temperature & Humidity Control in the Analytical Laboratory : As per last account ...	9,725.00	
94,51,993.22	Carried over ...	34,77,416.09	80,84,727.17

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
80,74,824.26	Brought Forward ...		15,48,664.15	79,06,782.80
	Equipment (*Contd.*)			
	(d) Dehydrating Machine-Chemical Engineering :			
	As per last a/c	15,957.00		
	Less Depr. @ 5% on 26,187.03	1,309.35		
		14,647.65		
15,957.00	*Addition* during the year	3,000.00	17,647.65	
	(e) Physics :			
	As per last a/c	48,039.37		
48,039.37	*Less* Depr. @ 5%	2,401.97	45,637.40	
	(f) Change over to Electric Supply :			
	As per last a/c	35,236.65		
35,236.65	*Less* Depr. @ 5%	1,761.83	33,474.82	
	(g) P. G. Course in Engineering Geology :			
	As per last a/c	33,200.78		
33,200.78	*Less* Depr. @ 5%	1,660.03	31,540.75	
	(h) Office Requisites :			
	As per last a/c	9,201.10		
9,201.10	*Less* Depr. @ 10%	920.11	8,280.99	
	(i) Tools and Accessories :			
	As per last a/c	2,843.26		
2,843.26	*Less* Depr. @ 10%	284.32	2,558.94	
	(j) Civil Engineering Degree Course :			
	As per last a/c	2,17,546.27		
	Less Depr. @ 5%	10,877.31		
		2,06,668.96		
2,17,546.27	*Addition* during the year	83,540.88	2,90,209.84	
84,36,848.69	Carried over ...		19,78,014.54	79,06,782.80

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March, 1961 (Contd.)

Previous Year	CAPITAL & LIABILITIES		Rs. nP.	Rs. nP.
94,51,993.22	Brought Forward ...		34,77,416.09	80,84,727.17
	Capital Grant (*Contd.*)			
	Govt. of West Bengal			
	a(4) Furniture & Micro Film & Photo Stat Equipment for Library :			
	As per Last a/c	27,775.00		
27,775.00	Receipt during the year	10,000.00	37,775.00	
	a(5) Construction of Hostels : Receipt during the year ...		1,00,000.00	
	a(6) Ceiling Fans for N.C.C Office : Receipt during the year ...		7,350.00	36,22,541.09
	Volkart Foundation :			
	For Equipment for Fermentation Technology :			
35,600.00	As per last account ...			35,600.00
	World University Service :			
	For Co-Operative Canteen Project :			
	Receipt during the year ...			2,900.00
	Interest Free Loan			
	Govt. of India—For Construction of Hostel Building :			
	As per last a/c	12,53,626.50		
	Less Repayment during the year	50,100.25	12,03,526.25	
12,53,626.50				
	Govt. of West Bengal—For Land for Hostel Site :			
	As per last a/c	2,34,922.00		
	Less Repayment during the year	10,678.00	2,24,244.00	14,27,770.25
2,34,922.00				
1,10,03,916.72	Carried over ...			1,31,73,538.51

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
84,36,848.69	Brought Forward		19,78,014.54	79,06,782.80
	Equipment (*Contd.*)			
	(k) Fermentation Technology : (out of Valkart Foundation Grant)			
	As per last a/c	33,262.46		
	Less Depr. @ 5%	1,663.12		
		31,599.34		
33,262.46	*Addition* during the year	704.52	32,303.86	
	(1) College of Engineering & Technology expansion Scheme:			
	As per last a/c	2,35,929.01		
	Less Depr. @ 5%	11,796.45		
		2,24,132.56		
	Addition during the year			
	Mechanical Engineering	6,900.36		
	Electrical Engineering	7,933.33		
	Tele Communication Engineering	1,18,177.75		
	General—Audio Visnal	5,792.05		
2,35,929.01			3,62,936.05	
	(m) P. G. Course in Food Technology :			
	As per last a/c	1,102.50		
	Less Depr. @ 5%	55.12		
		1,047.38		
1,102.50	*Addition* during the year	19,170.55	20,217.93	
	(n) Research development in Chemical Engineering (Out of Govt. of West Bengal Grant) :			
	As per last a/c	4,821.84		
	Less Depr. @ 5%	241.04		
		4,580.80		
4,821.84	*Addition* during the year	2,092.50	6,673.30	
87,11,964.50	Carried over ...		24,00,145.68	79,06,782.80

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,10,03,916.72	Brought Forward ...		1,31,73,538.51
	Ear-Marked Prize & Stipend Funds		
1,951.00	Gopi Kristo Bose Stipend Fund ...	1,906.42	
50,000.00	Dwijendra Memorial Scholarship Fund ...	50,000.00	
25,824.62	Surendranath Ghose Memorial Fund ...	26,885.76	
481.27	Ashok Memorial Prize Fund ...	512.65	
799.24	Jatindra Krishna Prize Fund ...	834.86	
3,679.52	Manilal Chatterjee & Others Stipend Fund ..	3,683.90	
1,801.85	Kristomohan Bose Stipend Fund...	1,849.73	
208.59	Srischandra Birprotap Memorial Fund ...	221.97	
2,200.00	Jyotinath Memorial Fund ...	2,200.00	
351.00	S. K. Dutt Memorial Fund ...	351.00	
801.00	Sudhakar Barman Memorial Fund	801.00	
1,000.00	P. N. Bose Memorial Fund ...	1,000.00	
5,000.00	Mohini Mohon Bose Endowment Fund ...	5,000.00	
500.00	K. P. Das Gupta Memorial Fund ...	515.00	
1,171.25	Mary K. Das & Taraknath Das Stipend Fund ..	1,171.25	
2,784.75	Bireswar Dasgupta Memorial Fund	2,785.50	
5,000.00	Surendranath Nandan Stipend Fund ...	5,000.00	
135.00	Hironmoyee Debi Stipend Fund ...	300.00	
250.00	Aloke Kumar Sarkar Memorial Fund ...	300.00	
4,000.00	Gangu Ram Verma Memorial Stipend Fund ...	4,000.00	
1,11,11,855.81	Carried over ...	1,09,319.04	1,31,73,538.51

UNIVERSITY

31st March, 1961—(Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
87,11,964.50	Brought Forward ...	24,00,145.68	79,06,782.80
	Equipment—(Contd.)		
17,252.16	(o) Research development in Chemical Engineering (out of Govt. of India Grant) As per last a/c 17,252.16 *Less* Depr. @ 5% 862.60	16,389.56	
27,523.78	(p) Chemistry-Temperature & Humidity Control : As per last a/c 27,523.78 *Less* Depr. @ 5% 1,376.19	26,147.59	
	(q) Rehabilitation of Equipment for College of Engineering & Technology : Purchase during the year for the Dept. of Physics ...	947.10	
2,70,360.61	(r) College of Arts & Science : As per last a/c 2,70,360.61 *Less* Depr. @ 5% 13,518.03 2,56,842.58 *Addition* during the year Geological Science 749.00	2,57,591.58	
89,453.85	(s) Research development in Faculty of Science : (1) Chemistry : As per last a/c 89,453.85 *Less* Depr. @ 5% 4,472.69	84,981.16	
84,118.07	(2) Physics : As per last a/c 84,118.07 *Less* Depr. @ 5% 4,205.90 79,912.17 *Addition* during the year 49,489.16	1,29,401.33	
	(3) Geological Science Purchase during the year ...	18,849.08	
92,00,672.97	Carried Over ...	29,34,453.08	79,06,782.80

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March, 1961 (Contd.)

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,11,11,855.81	Brought Forward	1,09,319.04	1,31,73,538.51
	Ear-Marked Prize & Stipend Funds (*Contd.*)		
501.00	Ganesh Janani Debi Memorial Fund	501.00	
2,000.00	Arun Kumar Bandopadhya ,, ,,	2,000.00	
4,000.00	Satish Chandra De ,, ,,	4,166.00	
15,000.00	Anusilan Samiti Commemoration Stipend Fund ...	15,238.50	
51,724.55	Sinha Fund ...	52,684.55	
4,001.00	Puspa Roy Gold Medal Fund ...	4,322.75	
258.25	Rector's Fund ...	1,485.02	
1,553.50	M. N. Chakravarty Mmorial Fund ..	2,496.36	
3,000.00	Sarada Gold Medal Fund ...	3,000.00	
	Jogendranath Das Memorial Medal Fund ...	2,080.00	1,97,293.22
	Partially invested in G. P. Notes and Treasury certificate etc. of the face value of Rs. 1,03,950/- (cost price Rs. 1,02,231.56) as per contra.		
	Other Ear-Marked Funds		
2,142.95	Teach Fund ...	404.08	
1,625.25	Blazar Fund ...	506.25	
77.44	Foreign Training Loan Fund ...	77.44	
495.45	Hostel Boarders, T. B. Fund ...	959.95	
4,129.63	University Research Fund ...	9,859.43	
1,378.36	Geological Fund (Tata Trust) ...	1,378.36	
2,918.11	Assam Flood Relief Fund ...	2,642.53	
2,602.03	Alumni Special Fund ...	2,602.03	
247.87	Lawn Tennis Fund ...	247.87	
1,12,09,511.20	Carried over ...	18,677.94	1,33,70,831.73

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
92,00,672.97	Brought Forward ...		29,34,453.08	79,06,782.80
	Equipment (*Contd.*)			
	(t) Development of P. G. Training & Research in Science :			
	(1) Physics :			
	As per last a/c	99,773.26		
	Less Depr. @ 5%	4,988.66		
		94,784.60		
99,773.26	*Addition* during the year	17,752.49	1,12,537.09	
	(2) Chemistry :			
	As per last a/c	70,504.39		
	Less Depr. @ 5%	3,525.22		
		66,979.17		
70,504.39	*Addition* during the year	53,880.73	1,20,859.90	
	(3) Mathematics :			
	As per last a/c	1,464.75		
1,464.75	*Less* Depr. @ 5%	73.24	1,391.51	
	(4) Geological Science :			
	As per last a/c	31,612.04		
	Less Depr. @ 5%	1,580.60		
		30,031.44		
31,612.04	*Addition* during the year	38,939.68	68,971.12	
	(u) Fundamental Research to Individual Workers :			
	(1) Physics :			
	As per last a/c	36,414.89		
	Less Depr. @ 5%	1,820.74		
		34,594.15		
36,414.89	*Addition* during the year	3,200.00	37,794.15	
	(2) Geological Sc. :			
	As per last a/c	4,920.07		
4,920.07	*Less* Depr. @ 5%	246.00	4,674 07	
94,45,362.37	Carried over ...		32,80,680.92	79,06,782.80

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,12,09,511.20	Brought Forward ...	18,677.94	1,33,70,831.73
	Other Ear-marked Funds (*Contd.*)		
66.25	Industrial Tour Fund ...	66.25	
1,872.47	Research Fund-Soil Testing (Govt. of West Bengal ...	1,872.47	
10,059.78	Research Fund Dr. S.C. Ganguly and Others ...	25,099.96	
13,721.95	Research Fund (C. S. 1. R) ...	12,297.90	
	Contingent Fund ...	1,000.00	59,014.52
	Capital Funds—		
34,929.00	Fund for equipment-Mechanical Engineering ...	26,838.74	
34,539.00	,, ,, ,, Tele Communication Engg ...	11,347.97	
8,000.00	,, ,, ,, Chemical Engg. ...	4,916.75	
19,145.16	,, ,, Construction of Post Office Building ...	25,145.16	
14,153.00	,, ,, Gymnasium ...	14,153.00	82,401.62
	Deposit & Unpaid Amount—		
66,633.51	Deposit from Students ...	77,818.51	
81,570.00	Deposit from Hostel Boarders—Main Block ...	82,560.00	
9,252.00	S. P. T. & J. P. Blocks ...	11,062.00	
	New Block ...	2,950 00	
	Ladies Block ...	1,600.00	
1,15,03,453.32	Carried over ...	1,75,990.51	1,35,12,247.87

UNIVERSITY

31st March, 1961—(Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
94,45,362.37	Brought Forward ...	32,80,680.92	79,06,782.80
	(u) Fundamental Research to Individual Workers : (*Contd*).		
	(3) Chemistry ; As per last a/c 4,000.00 *Less* Depr. @ 5% 200.00	3,800.00	
4,000.00	*Addition* during the year 3,000.00	6,800.00	
	(4) Chemical Engineering : As per last a/c 24,485.21 *Less* Depr.@ 5% 1224.26	23,260.95	
24,485.21	*Addition* during the year 5,522.50	28,783.45	
	(5) Food Technology : Purchase during the year	10,573.82	
	(6) Mechanical Engineering : Purchase during the year	15,365.00	
	(v) Portrait, Tablets & Busts : As per last a/c 5,363.98 *Less* Depr. @ 5% 268.19	5,095.79	
5,363.98			
	(w) Academic Robes of the University : As per last a/c 3,662.08 *Less* Depr. @ 20% 732.41	2,929.67	33,50,228.65
3,662.08			
	Books & Journals—		
	(1) College of Engineering & Technology-existing Degree Course : As per last a/c 98,410.69 *Less* Depr. @ 5% 4,920.53	93,490.16	
98,410.69			
	(2) P. G. Courses in Engineering Geology : As per last a/c 1,711.86 *Less* Depr. @ 5% 85.59	1,626.27	
1,711.86			
95,82,996.19	Carried over ...	95,116.43	1,12,57,011.45

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,15,03,453.32	Brought Forward ...	1,75,990.51	1,35,12,247.87
	Deposit & Unpaid Amount (*Contd.*)		
	Hostel Boarder's Suspense :		
6,349.54	Main Block ...	583.24	
2,049.82	S. P. T. & J. P. Blocks ...	82.50	
17,196.66	Suspense-General ...	12,171.04	
23,278.58	Income Tax ...	1,821.55	
155.52	Insurance Premium ...	2,913.22	
2,500.33	Unpaid dues of staff ...	5,264.89	
7.55	Suspense—S. G. Canteen ...	7.55	
5,49,481.11	Deposit Provident Fund ...	116.33	
662.00	Security Deposit ...	662.00	
	Unpaid Income Tax to Staff ...	330.03	
	J. V. Hostel canteen charges ...	2,137.00	2,02,079.86
34,971.95	National Council of Education ...	Nil	
	Stipend, Prizes & Scholarships		
92,276.38	Govt. & Other Bodies ...	1,11,638.76	
10,392.06	Stipend to Displaced Students ...	6,101.56	
400.00	University Grants Commission ...	1,164.52	1,18,904.84
1,59,228.50	**Out-Standing Bills for Expenses & Materials for 1960-61** ...		98,109.21
	State Bank of India		
	A/c Letter of Credit ...		227.91
2,68,672.73	A/c Overdraft ...		Nil
1,26,71,076.05	Carried over ...		1,39,31,569.69

31st March 1961 (Contd.)

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
95,82,996.19	Brought Forward ...		95,116.43	1,12,57,011.45
	Books & Journals (*Contd.*) ...			
	(3) Civil Engineering Degree Course :			
	As per last a/c	20,719.75		
	Less Depr. @ 5%	1,035.98		
		19,683.77		
20,719.75	*Addition* during the year	899.74	20,583.51	
	(4) Humanities :			
	As per last a/c	92,707.46		
	Less Depr. @ 5%	4,635.37		
		88,072.09		
92,707.46	*Addition* during the year	12,627.33	1,00,699.42	
	(5) Technical & Scientific Subjects			
	As per last a/c	65,521.18		
	Less Depr. @ 5%	3,276.06		
		62,245.12		
	Addition during the year			
	Science Subjects	4,714.54		
65,521.18	Engineering ,,	5,127.73	72,087.39	
	(6) Text Books-College of Arts and Science :			
	As per last a/c	18,304.04		
18,304.04	*Less* Depr. @ 5%	915.20	17,388.84	
	(7) P. G. Development & Research in Science :			
	As per last a/c	41,184.89		
	Less Depr. @ 5%	2,059.24		
		39,125.65		
41,184.89	*Addition* during the year	35,130.72	74,256.37	
	(8) Development of P. G. Training in the Dept. of International Relations & Comparative Literature :			
	As per last a/c	11,315.45		
	Less Depr. @ 5%	565.77		
		10,749.68		
11,315.45	*Addition* during the year	27,743.88	38,493.56	4,18,625.52
98,32,748.96	Carried over ...			1,16,75,636.97

JADAVPUR

Balance Sheet as at

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,26,71,076.05	Brought Forward ...		1,39,31,569.69
	To Unspent Balance of Recurring Grant		
	(a) Scheme of Expansion of Training Capacity of the College of Engineering & Technology ...	3,462.87	
	(b) Scheme for Degree Course in Civil Engineering : ...	19,070.53	
10,665.79	(c) Scheme of P. G. Course in Food Technology ...	1,706.48	24,239.88
1,26,81,741.84	Carried over ...		1,39,55,809.57

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
98,32,748.96	Brought Forward ...		1,16,75,636.97
27,530.35	**Loans & Advances** ...		63,681.00
	Other Advances		
	Advances for Hostel expenses for Main Block ...	3,863.33	
	Advances for Building Construction & Materials ...	13,27,481.85	
18,96,114.13	Advance for supply of Equipment	26,351.21	13,57,696.39
	Deposits & Realisable Amounts		
	Electric Meters ...	296.30	
	Unesco Book Coupons ...	490.56	
13,615.45	Others ...	2,413.75	3,200.61
57,552.07	**Valuation of stock in stores** ...		53,305.74
	Out-Standing Receipts		
55,000.00	Calcutta Corporation Recurring Grant ...	75,000.00	
71,466.01	Hostel Main—Messing Dues ...	81,264.36	
21,420.65	Hostel S. P. T., J. P.—Messing dues ...	16,448.10	
4,600.53	Hostel Main—S. G. Canteen charges ...	2,239.30	
702.15	Hostel Main–Chakravarty Canteen charges ...	90.01	
368.57	Hostel S. P. T., J. P. Canteen Charges ...	259.48	1,75,292.25
	Investment (at Book value)		
	(a) General Fund :		
	3% Conversion Loan 1946 (face value Rs. 77,200/-) ..	76,152.25	
	3% Loan 1896-97 (face value Rs. 3,10,000/-) ...	3,11,501.03	
4,35,653.28	4% C.P.T.D. 1914 (face value Rs. 48,000/-)	48,000.00	4,35,653.28
41,028.75	(b) **Joint-Stock Companies shares**		37,028.75
1,24,57,800.90	Carried over ...		1,38,01,494.99

JADAVPUR

Balance Sheet as at

Previous year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,26,81,741.84	Brought Forward ...		1,39,55,809.57
1,26,81,741.84	Carried Over ...		1,39,55,809.57

UNIVERSITY

31st March, 1961 (Contd.)

Previous year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
1,24,57,800.90	Brought Forward ...		1,38,01,494.99
	Investment (at Book value) :		
	(c) Ear-Marked Funds		
	(1) Asoke Memorial Prize Fund A/c "E"		
481.25	3% conversion loan, 1946 (face value Rs. 700/-) ...	481.25	
	(2) Gopi Kristo Bose Stipend Fund A/c "F"		
1,600.00	3% loan 1896—97 (face value Rs. 1,600/- ...	1,600.00	
	(3) Kristomohan Bose Stipend Fund A/c "C"		
1,600.00	3% Conversion loan 1946 (face value Rs. 1600/-) ...	1,600.00	
	(4) Jatindra Krishna Prize Fund A/c "H"		
799.25	3% conversion loan 1946 (face value Rs. 800/-) ...	799.25	
	(5) Manilal Chatterjee & Other Stipend A/c "I"		
3,100.00	3% conversion loan 1946 (face value Rs. 3100/-) ...	3,100.00	
	(6) Sris Chandra Bir Protap Memorial Fund A/c "J"		
195.75	3% conversion loan 1946 (face value Rs. 300/-) ...	195.75	
	(7) Surendranath Ghosh Memorial Fund A/c "K"		
21,105.31	3% conversion loan 1946 (face value Rs. 22,400/-) ...	21,105.31	
	(8) Sinha Fund A/c "L"		
31,900.00	3% conversion loan 1946 (face value Rs. 32,000/-) ...	31,900.00	
1,25,18,582.46	Carried Over ...	60,781.56	1,38,01,494.99

JADAVPUR UNIVERSITY

Balance Sheet as at 31st March 1961 (Contd.)

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,26,81,741.84	Brought Forward ...		1,39,55,809.57
1,26,81,741.84	Carried over ...		1,39,55,809.57

Previous Year	PROPERTY & ASSETS	Rs. nP.	Rs. nP.
1,25,18,582.46	Bronght Forward ...	60,781.56	1,38,01,494.99
	Ear-Marked Funds (*Contd.*)		
	(9) Kaliprasanna Das Gupta Memorial Fund A/c "M"		
500.00	3% conversion loan 1946 (face value Rs. 500/-) ...	500.00	
	(10) Jyotinath Memorial Scholarship Fund A/c "N"		
2,200.00	3% conversion loan 1946 (face value Rs. 2200/-) ...	2,200.00	
	(11) Dwijendra Memorial Scholarship Fund A/c "O"		
10,000.00	4% West Bengal Loan 1967 (face value Rs. 10,000/- ...	10,000.00	
	(12) Bireswar Das Gupta Memorial Fund A/c "P"		
2,600.00	3½% 10 years T. S. D. certificate (face value Rs.2600/-)...	2,600.00	
	(13) Sreemati Puspa Roy Gold Medal Fnud A/c "Q"		
4,000.00	4% 10 years T S.D. certificate (face value Rs. 4000/-)...	4,000.00	
	(14) Satish Chandra De · Gold Medal Fund A/c "R"		
4,150.00	4% 10 years T.S.D. certificate (face value Rs. 4150/-) ...	4,150.00	
	(15) Anusilan Samiti Commemoration Fund A/c "S"		
15,000.00	4% 10 years T.S.D. certificate (face value Rs. 15,000/-) ...	15,000.00	
	(16) Sarada Gold Medal Fund A/c "T"		
—	4% 10 years T S D. certificate (face value Rs. 3000/-) ...	3,000.00	1,02,231.56
1,25,57,032.46	Carried Over ...		1,39,03,726.55

JADAVPU

Balance Sheet as

Previous Year	CAPITAL & LIABILITIES	Rs. nP.	Rs. nP.
1,26,81,741.84	Brought Forward		1,39,55,809.57
1,26,81,741.84		Rs.	1,39,55,809.57

Dated, Calcutta,
The 29th September 1961.
P-14, Mission Row Extension, Calcutta.

UNIVERSITY

31st March, 1961 (Contd.)

Previous Year	PROPERTY & ASSETS		Rs. nP.	Rs. nP.
1,25,57,032.46	Brought Forward	...		1,39,03,726.55
	Cash & Bank Balance			
	Cash in hand	...	Nil	
	State Bank of India A/c Jadavpur University	...	37,739.73	
	State Bank of India A/c C. E. T.	...	13,113.48	
	State Bank of India A/c Alumni Fund	...	367.75	
15,180.35	United Commercial Bank Ltd. Ballygunge Branch	...	862.06	52,083.02
1,09,529.03	**Capital**	...		Nil
1,26,81,741.84			Rs.	1,39,55,809.57

We have audited the above Balance Sheet as at 31st March 1961 and annexed Income & Expenditure Accounts for the year ended on that date. Subject to our seperate report of even date, the Balance Sheet exhibits a true and fair view of the state of the University's affairs according to the best of our information and explanations given to us and as shown by the Books of the University.

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY

Total Revenue Account for the year ended 31st March, 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Depreciation on :—		
46,320.62	Buildings, Structures & Developments ...	45,287.10	
426.86	Post-Office Building ...	416.19	
3,045.67	Building for Civil Engineering...	3,004.57	
1,880.94	Building for Hydraulics Laboratory ...	1,873.80	
5,149.53	Building for N. C. C. Staff Quarters ...	5,010.34	
4,163.62	Building for Library & Reading Room ...	9,689.53	
2,179.06	Extension of Civil Engineering Building ...	3,368.13	
1,889.41	Building for Physics & Telecommunication Engineering ...	2,379.20	
	Extension of Chemical Engineering Building ...	139.41	
7,003.69	Building for College of Arts & Science ...	8,260.72	
	Extension of College of Arts & Science ...	1,159.47	
	Post Graduate Science Building	813.35	
908.50	Building for Recreation Hall cum-Auditorium ...	885.79	
31.47	Gymnasium Shed ...	1,246.35	
	Building for Students' Health Centre ...	153.03	
	New Hostel Buildings ...	113.06	
942.48	Major Repairs of Work-shop ...	6,210.09	
7,122.42	Boiler shed for Chemical Engineering ...	243.01	
2,789.46	Electric Installation & Fans ...	6,382.69	
	Gas & Water connection ...	2,510.52	
33,912.80	Gas Plant & Shed ...	595.72	
3,742.13	Old Hostel Building ...	33,064.99	
6,589.70	Old Hostel-Furniture & Fixture	3,555.03	
1,741.82	Furniture for College of Engineering Existing Degree Courses...	6,260.22	
5,403.94	Furniture for College of Engineering Expansion Scheme ...	3,261.86	
445.50	Furniture for Library Building & Reading Room ..	6,611.40	
6,764.49	Micro Film & Photo Stat Equipment for Library ...	632.15	
	Furniture for College of Arts & Science ...	7,551.68	
1,42,454.11	Carried over ...	1,60,679.40	

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Ad-Hoc Grant to wipe off accumulated Deficit upto 31.3.59		
	Govt. of India ...	6,16,000.00	
—	Govt. of West Bengal ...	7,00,194.00	13,16,194.00
—	,, Maintenance Grant from Govt. of West Bengal for University General & College of Arts & Science for the year 1959-60...		1,10,000.00
—	,, Maintenance Grant form Govt. of West Bengal for Civil Engineering Degree Course for the year 1958-59 & 1959-60...		41,809.00
Nil	Carried over ...		14,68,003.00

JADAVPUR

Total Revenue Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
1,42,454.11	Brought Forward ...	1,60,679.40	
	To Depreciation on :—*(Contd.)*		
	Furniture for Chemical Engineering ...	200.81	
1,320.59	Ceiling Fans for College of Arts & Science ...	1,357.06	
1,744.14	Furniture for Civil Engineering Degree Course ...	1,656.94	
	Furniture for Post Graduate in Food Technology ...	273.45	
	Furniture for Major Repair & Work-shop ...	507.67	
35,256.06	Equipment-Mechanical Engineering ...	33,498.26	
29,267.74	Equipment-Electrical Engineering ...	27,804.35	
21,275.05	Equipment-Chemical Engineering	20,211.29	
1,379.31	Dehydrating Machine ...	1,309.35	
2,528.39	Equipment—Physics ...	2,401.97	
1,854.56	Equipment—Change over to Electric Supply ...	1,761.83	
1,747.41	Equipment-Post Graduate Course in Engineering Geology	1,660.03	
1,022.34	Office Requisites ...	920.11	
315.92	Tools & Accessories-Work-shop...	284.32	
5,991.34	Equipment-Civil Engineering Degree Course ...	10,877.31	
1,633.02	Equipment-Fermentation Technology ...	1,663.12	
9,331.04	Equipment-College of Engineering Expansion Scheme ..	11,796.45	
	Equipment-Post Graduate Course in Food Technology ...	55.12	
829.98	Equipment for Research Development in Chemical Engineering ...	1,103.64	
1,448 61	Equipment-Temperature and Humidity Control	1,376.19	
10,738.59	Equipment - College of Arts & Science ...	13,518.03	
	Equipment-Research development in Faculty of Science ...	8,678.59	
	Equipment for Post Graduate Training & Research in Science	10,167.72	
	Equipment Fundamental Research to Individual Workers ...	3,491.00	
2,70,138.20	Carried Over ...	3,17,254.01	

UNIVERSITY

year ended 31st March, 1961— (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
—	Brought Forward ...		14,68,003.00
Nil	Carried over ...		14,68,003.00

JADAVPUR UNIVERSITY

Total Revenue Account for the Year Ended 31st March, 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
2,70,138.20	Brought Forward ...	3,17,254.01	
282.32	To Portraits, Tablets & Busts ...	268.19	
915.51	Academic Robes of the University ...	732.41	
5,179.50	Books & Journals College of Engineering ...	4,920.53	
90.10	Books for Post Graduate Course in Engineering Geology ...	85.59	
904.56	Books for Civil Engineering ...	1,035.98	
4,036.78	Books on Humanities	4,635.37	
2,976.27	Books on Technical & Scientific Subjects ...	3,276.06	
963.37	Tex Books-College of Arts & Science ...	915.20	
	Books for P. G. Training and Research in Science ...	2,059.24	
2,96,829.95	Books for P. G. Training in International Relations and Comparative Literature ...	565.77	3,35,748.35
2,82,231.60	,, Excess of Expenditure over Income for Maintenance of the University and College of Arts & Science carried from Summary of Income & Expenditure Account ...	35,143.77	
1,05,666.71	,, Excess of Expenditure over Income for Maintenance of the existing Degree Courses in Engineering carried from Summary of Income & Expenditure Account ...	88,654.58	
10,915.72	,, Excess of Expenditure over Income for Chemical Engineering carried from Summary of Income & Expenditure Account	19,772.26	
11,675.26	,, Excess of Expenditure over Income for Maintenance of Other Sanctioned Schemes carried from Summary of Income & Expenditure Account	27,778.07	1,71,348.68
7,07,319.24	,, Balance Carried to Balance Sheet ...		9,60,905.97
		Rs.	14,68,003.00

Previous Year	INCOME	Rs. nP.	Rs. nP.
Nil	Brought Forward		14,68,003.00
7,07,319.24	By Balance carried to Balance Sheet		
7,07,319.24		Rs.	14,68,003.00

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY

Summary of Income & Expenditure Account for the year ended 31st March 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	I. Maintenance of the University "General" &		
2,90,549.82	To Excess of Expenditure over Income carried from Income & Expenditure Account for University (General) ...		3,79,372.81
8,07,365.05	,, Excess of Expenditure over Income carried from Income & Expenditure Account for College of Arts & Science		9,20,951.76
34,316.73	,, Excess of Expenditure over Income carried from Income & Expenditure A/c for Research Scheme in the Faculty of Science		34,819.20
11,32,231.60		Rs. ...	13,35,143.77
	II. Maintenance of the Existing		
91,425.09	To Excess of Expenditure over Income carried from Income & Expenditure A/c for Degree Courses in Mechanical & Electrical Engineering ...		68,894.95
14,241.62	,, Excess of Expenditure over Income carried from Income & Expenditure Account on Hostels		19,759.63
1,05,666.71		Rs. ...	88,654.58

UNIVERSITY

year ended 31st March 1961

Previous Year	INCOME	Rs. nP.	Rs. nP.
	College of Arts & Science		
8,50,000.00	By Grant from Govt. of West Bengal for Maintenance of the University ...		13,00,000.00
2,82,231.60	,, Excess of Expenditure over Income carried to Total Revenue Account ...		35,143.77
11,32,231.60		Rs. ...	13,35,143.77
	Degree Courses in Engineering		
1,05,666.71	By Excess of Expenditure over Income carried to Total Revenue Account ...		88,654.58
1,05,666.71		Rs ...	88,654.58

JADAVPUR UNIVERSITY

Summary of Income & Expenditure Account for the year ended 31st March, 1961. (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.	Previous Year	INCOME	Rs. nP.	Rs. nP;
	III. Maintenance of Chemical Engineering Department						
10,915.72	To Excess of Expenditure over Income carried from Income & Expenditure A/c ...		19,772.26	10,915.72	By Balance carried to Total Revenue A/c ...		19,772.26
10,915.72		Rs. ...	19,772.26	10,915.72		Rs. ...	19,772.26
	IV. Maintenance of other Sanctioned Schemes (*Grant not received from the Sanctioning Authorities during the year*)						
	To Excess of Expenditure over Income carried from Income & Expenditure A/c for Part time Degree Courses in Engineering...		15,467.05	11,675.26	By Balance carried to Total Revenue A/c ...		27,778.07
2,762.03	,, Excess of Expenditure over Income carried from Income & Expenditure A/c for Development of Higher Scientific Education & Research ...		5,613.85				
1,130.12	,, Excess of Expenditure over Income carried from Income & Expenditure A/c for development of Higher Educational Research in Humanities and Social Science ...		6,697.17				
7,783.11	,, Excess of Expenditure over Income carried from Income & Expenditure A/c on Degree Courses in Civil Engineering ...		—				
11,675.26		Rs. ...	27,778.07	11,675.26		Rs. ...	27,778.07

JADAVPUR UNIVERSITY

Income & Expenditure on "General Account" for the year ended 31st March 1961.—(Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To **Office of the University :**		
30,000.00	Rector ...	30,000.00	
17,530.00	Registrar ...	18,130.00	
3,000.00	Treasurer ...	3,000.00	
9,825.81	Provost ...	—	
9,600.00	Financial Adviser ...	800.00	
—	Accounts Officer ...	8,800.00	
3,600.00	Medical Officer ...	3,600.00	
1,488.71	Assistant Registrar ...	4,406.77	
4,743.67	Provident Fund Contribution ...	4,059.31	72,796.08
	To **Office**		
12,762.89	Office Staff ...	16,112.90	
1,314.09	Bearers, Darwans & Malees ...	1,579.22	
—	Ground Supervisor ...	2,585.00	
4,499.99	Leave Vacancies & Allowance ...	9,407.00	
995.51	Provident Fund Contribution ...	1,022.54	30,706.66
6,016.84	To Extension work of University Teachers ...		6,146.76
7,505.40	,, Annuity under Endowment ...		7,505.40
3,600.00	,, Basu Mallick Chair ...		3,600.00
21,816.31	,, Convocation Expenses ...		22,233.60
974.35	,, Establishment of Plan Information Centre		—
	,, **Survey of Small Scale Industries in the city of Howrah :**		
	Staff ...	27,836.85	
	Stationery & Typing ...	3,997.03	
	Petrol, Maintenance of Car & Driver ...	3,010.87	
	Processing and Tabulation of Data ...	2,881.64	
	Contingencies ...	467.84	
	Station Wagon ...	5,000.00	43,194.23
	,, **Examination :**		
7,320.00	Controller of Examination ...	10,700.00	
12,146.06	Office Staff ...	13,060.01	
2,546.37	Bearers ...	2,663.91	
326.60	Leave Vacancies & Allowances ...	1,223.55	
1,215.10	Provident Fund Contribution ...	1,845.70	
1,62,827.70	Carried over ...	29,493.17	1,86,182.73

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Examination :**		
95,074.04	Examination Fee ...	1,30,332.00	
3,564.00	Registration Fee (University) ...	4,172.00	
3,379.00	Mark Sheet & Transcript Fee ...	3,940.00	
00.24	Sale of Waste Paper ...	268.87	
195.00	Scrutiny fee of Answer Papers ...	220.00	
380.00	Migration Certificate Fee ...	601.00	1,39,533.87
	,, **Students' Amenities :**		
6,237.50	Students' Magazine Fee ...	6,690.00	
5,312.70	Students' Union Fee ...	5,416.00	
12,475.00	Sporting Fee ...	13,380.00	
2,495.00	Medical Examination Fee ...	2,676.00	
2,513.00	Students' Health Home Fee ...	2,698.00	
1,555.94	Students' Library Fee ..	1,658.00	
4,990.00	Contingency Fee ...	5,688.00	
—	Drama Club Fee ...	3.00	38,209.00
6,602.34	,, **Other Activities of Students :** Exhibition Income	7,894.28	
—	Grant From Govt. of India for Inter Collegiate Youth Festival ...	606.00	
3,520.00	Grant from Govt. of India for Youth Welfare Board ...	3,591.00	
2,886.00	Grant from Govt. of India for Social Service Camp ...	—	12,091.28
	,, **Students' Aid Fund :**	2 680.00	
2,518.50	Students' Aid Fee ...	1,250.00	
1,698.00	Donation from other Sources ...		
2,816.50	Grant from University Grants' Commission ...	1,042.00	4,972.00
3,600.00	,, Contribution from National Council of Education For Basu Mallick Chair ...		1,400.00
10,685.00	,, Rent from Building Southern Avenue ...		7,035.71
30,000.00	,, Grant for Building Programme for India International Centre...		—
2,02,497.76	Carried over ...		2,03,241.86

JADAVPUR

Income & Expenditure on 'General' Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
1,62,827.70	Brought Forward ...	29,493.17	1,86,182.73
	To **Examination** (*Contd.*)		
47,378.63	Examiners' & Paper-Setters Fees ...	64,252.95	
6,729.25	Honorarium to Tabulators & Helpers ...	8,461.18	
26,340.31	Printing, Postage & Stationery	27,195.02	
2,192.76	Contingencies ...	2,474.03	1,31,876.35
	,, **Library**		
8,290.35	Chief Librarian ...	7,380.00	
26,956.62	Librarian & Office Staff ...	31,957.36	
7,084 42	Bearers & Sweepers & Duftries	8,803.35	
2,466.33	Leave Vacancies & Allowances	2,267.33	
1,134.06	Provident Fund Contribution ...	1,182.33	
4,009.89	General Books & Periodicals ...	4,353.95	
4,323.28	Binding Charges ...	7,875.14	
4,184.22	Library Accessories ...	5,174.80	
	Printing, Stationery & Contingencies ...	2,681.22	
10,000.00	Electricity Charges ...	12,249.58	83,925.06
	,, Administrative Unit for Statistical Return :		
	Statistical Officer & Assistant	6,911.47	
	Bearer ...	415.87	7,327.34
	,, **Students' Amenities**		
5,305.34	Physical Instructors & Bearer	5,895.14	
	Students' Magazine :—		
9,774.69	College of Engineering & Technology 942.01		
1,583.95	College of Arts 1,899.26		
1,556.28	College of Science 1,400.40	4,241.67	
	Students' Union		
4,011.17	College of Engineering & Technology 6,221 43		
1,091.87	College of Arts 1,586.63		
980.21	College of Science 1,229.35	9,037.41	
3,38,221.33	Carried over ...	19,174.22	4,09,311.48

UNIVERSITY

year ended 31st March 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,02,497.76	Brought Forward ...		2,03,241.86
	By **Setting of Film Club**		
	Fees from Students ...	150.00	
	Grant from University Grants' Commission ...	1,000.00	1,150.00
12,670.60	,, Interest & Dividend ...		—
	,, **Extension Work of University Teachers**		
	Grant from University Grants' Commission ...	3,300.00	
3,290.00	Grant from Govt. of West Bengal ...	3,300.00	6,600.00
	,, **Setting of a small Administration Unit for Statistics :**		
	Grant from University Grants Commission ...		3,000.00
5,000.00	Grant from Govt. of West Bengal ...		—
	,, **Survey of small scale Industries in the city of Howrah :**		
—	Grant from Reserve Bank of India ...		17,600.88
2,23,458.36	Carried over ...		2,31,592.74

JADAVPUR UNIVERSITY

Income & Expenditure on 'General' Accounts for the year ended 31st March 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
3,38,221.33	Brought Forward ...	19,174.22	4,09,311.48
	To **Students' Activities** (*Contd.*)		
	Sporting & Physical Culture :		
	University Sports Board 4,751.97		
	Annual Sports 1,980.64		
	College of Engineering 4,813.54		
	College of Arts & Science 4,734.81		
15,226.21		16,280.96	
	Medical Examination of Students ...	2,661.30	
2,400.00	Students Health Home ...	2,689.00	
2,350.00	Students Library ...	921.07	41,726.55
292.19			
	,, **Other Activities of the Students**		
20,003.08	Exhibition Expenses ...	26,174.27	
4,441.25	Students Aid Fund ...	8,328.83	34,503.10
	Social Service Camp :—		
—	Camp expenses 1,093.07		
	Refund of Unspent		
—	Balance 1,792.93	2,886.00	
—	Inter Collegiate Youth Festival	8.40	
—	Expenses on Film Club ...	196.63	3,091.03
73.92	Educational Tour (Refund of Balance) ...		—
	,, **Administrative Expenses for Youth Welfare Board** :		
6,909.52	Staff ..	7,075.00	
9.07	Contingencies ...	19.12	
192.09	Refund of unspent balance of 1959-60 ...	60.70	7,154.82
	,, **Inter-Varsity Activities** :		
7,598.47	Inter-Varsity Sports Activities...	13,220.78	
595.97	Other Inter-Varsity Activities ..	1,551.70	
33,320.88	Contribution & Membership Fee of the University ...	4,413.77	19,186.25
4,31,633.98	Carried over ...		5,14,973.23

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,23,458.36	Brought Forward ...		2,31,592.74
	By **Miscellaneous Receipts** :		
1,490.00	Hire Charges of Academic Robes ..	1,645.00	
355.00	Registration fee from Graduates ...	520.00	
977.58	Other Contingent Receipts ...	1,188.54	3,353.54
	,, **Travel Grant for Teachers** (Dr. R. K. Das Gupta)		
	Grant from University Grants Commision ...		1,550.00
675.00	,, Grant from Govt. of India for Plan Information Centre ...		—
2,26,955.94	Carried over ...		2,36,496.28

JADAVPUR UNIVERSITY

Income & Expenditure on 'General Account' for the Year Ended 31st March, 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
4,31,633.98	Brought Forward ...		5,14,973.23
29,934.29	To House Allowance to Administrative & Subordinate Staff ...		29,255.21
	,, Lectures on Special Topics ...		30.25
	,, Travelling Expenses for Teachers to attend International Congress & Conferences ..		3,096.00
	,, **Other Contingent Expenses :**		
4,265.78	Printing of University Calendar & other Publications ...	9,478.56	
2,564.13	Deputation & Travelling Expenses ...	3,546.13	
2,300.74	Contingent expenses ...	5,672.89	
2,890.15	Taxes & Maintenance for Southern Avenue Building ...	3,943.40	
10,544.81	Academic Robes of the University ...	524.85	
2,000.00	Repairs & Maintenance ...	18,387.92	
8,916.89	Telephone ...	6,531.79	
13,371.74	Legal, Audit & Bank Charges ...	6,701.96	
321.44	Printing, Postage & Stationery	10,464.69	
6,565.18	Advertisement & Publicity ...	1,096.34	
—	Amount written off ...	602.50	
1,330.38	Gardening & Planting :	1,563.37	
866.25	Election of members of the University ...	—	
	University Medals ...	—	68,514.40
5,17,505.76		Rs.	6,15,869.09

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,26,955.94	Brought Forward ...		2,36,496.28
2,90,549.82	By Excess of Expenditure over Income carried to Summary of Income & Expenditure Account		3,79,372.81
5,17,505.76		Rs.	6,15,869.09

JADAVPUR
COLLEGE OF ENGINEERING
Income & Expenditure Account for the Existing Degree Courses In "Mechanical" &

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To **Mechanical Engineering Department :**		
1,99,389.01	Teaching Staff—Salary & Allowances ...	2,10,802.74	
22,244,17	Teaching Staff—Pay Under Revision of Pay Scale—Ist Revision ...	5,887.02	
	Teaching Staff—Pay under Revision of Pay Scale—IInd Revision ...	26,469.30	
2,789.90	Laboratory & Store Assistant — Salary & Allowances ...	2,909.90	
	Mistries, Helpers & Bearers— Salary & Allowances		
7,298.98	Laboratory ...	7,550.69	
46,621.67	Work-Shop ...	47,420.02	
17,374 46	Provident Fund Contribution ...	19,877.84	
699.76	Leave, Vacancies & Allowances	2,981.20	
2,843.40	Laboratory Teaching Expenses	2,594.64	
6,865.10	Work-shop Teaching Expenses	7,992.66	
10,408.30	Power (Staff & Materials) ...	12,707.73	
2,329.45	Repairs & Maintenance : Furniture & Equipment ...	2,544.80	
—	Gas & Water Connection ...	35.14	
551.50	Building ...	593.42	
3,405.93	Books & Journals ...	4,286.03	
1,009.37	Contingencies : Laboratory ...	893.25	
686.31	Work-shop ...	1,400.27	
618.26	Models ...	—	
184.64	Excursion Expenses ...	—	3,56,946.65
	,, **Electrical Engineering Department :**		
1,00,372.54	Teaching Staff—Salary & Allowance ...	77,585.00	
7,725.94	Teaching Staff—Pay under Revision of Pay Scale—Ist Revision ...	2,100.00	
—	Teaching Staff—Pay under Revision of Pay Scale—IInd Revision ...	15,320.00	
2,231.00	Laboratory Assistant— Salary & Allowances ...	2,332.00	
13,912.44	Mistries, Helpers & Bearers— Salary & Allowances ...	15,060.83	
4,49,562.13	Carried Over ...	1,12,397.83	3,56,946.65

UNIVERSITY
TECHNOLOGY
"Electrical" Engineering for the Year Ended 31st March, 1961.

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Fees from Students :**		
98,756.00	Mechanical & Electrical Engineering ...		95,111.00
	,, **Rent & Conservancy :**		
	Staff Quarters & Other Buildings :		
6,601.31	Staff Quarters ...	8,232.90	
2,281.93	Puddapukur ...	1,860.00	10,092.90
	,, **Subvention from Govt. of West Bengal :**		
48,988.56	For Dearness Allowance ...		54,213.55
—	,, **Donation** ...		1,500.00
	,, **Other Receipts :**		
5,433.36	Breakage, Fine etc. ...	6,937.91	
9,740.00	Admission Fee ...	7,336.00	
2,248.86	Sale Proceeds of Prospectus ...	3,147.86	
32,846.25	Registration—Admission ...	28,951.00	46,372.77
—	,, **Interest & Dividend :** ...		13,807.46
	,, **Recurring Grant :**		
5,98,000.00	University Grants' Commission for Maintenance of Degree Courses ...	5,98,000.00	
27,255.11	Revision of Pay Scale in the Faculty of Engineering & Technology : Ist Revision (from April 1956) 420.00 2nd Revision (from April 1960) 44,491.14	44,911.14	
1,920.00	Revision of Pay scale for Faculty of Science ...	1,920.00	
	Govt. of West Bengal :		
1,015.00	For Revision of Pay Scale for faculty of Engineeeing Ist Revision ...	6,813.76	
20,000.00	Corporation of Calcutta ...	20,000.00	6,71,644.90
8,55,086.38	Carried Over ...		8,92,742.58

JADAVPUR
COLLEGE OF ENGINEERING

Income & Expenditure Account for the existing Degree Course in "Mechanincal" &

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
4,49,562.13	Brought Forward ..	1,12,397.83	3,56,946.65
	To **Electrical Engineering Department** (*Contd.*)		
8,375.75	Provident Fund contribution ...	8,267.69	
7,838.89	Leave, Vacancies & Allowances...	2,520.12	
7,504.84	Laboratory Teaching Expenses	6,652.47	
564.15	Excursion Expenses ...	505.84	
	Repairs & Maintenance :		
477.83	Furniture & Equipment ...	298.00	
1,923.33	Building ...	2,470.39	
2,523.94	Books & Journals ...	2,426.15	
1,060.45	Contingencies ...	1,112.82	1,36,651.31
	To **Physics** :		
18,585.00	Teaching Staff—Salary & Allowances ...	19,485.00	
2,650.00	Teaching Staff—Pay under Revision pay scales Ist Revision ...	900.00	
2,332.00	Laboratory Assistant-Salary & Allowance	758.00	
3,380.85	Bearers—Salary & Allowance	3,565.80	
1,935.32	Provident Fund Contribution ...	1,583.34	
216.77	Leave, Vacancies & Allowances	12.58	
2,973.38	Laboratory Teaching expenses ..	2,648.91	
	Repairs & Maintenance :—		
984.70	Furniture & Equipment ...	761.50	
52.00	Building ...	430.51	
183.21	Contingencies ...	328.42	30,474.06
	To **Mathematics** :		
28,234.77	Teaching Staff—Salary & Allowances ...	30,028.41	
2,625.00	Teaching Staff—Pay under Revision of Pay Scale Ist Revision...	2,100.00	
2,285.08	Provident Fund Contribution ...	2,377.37	34,505.78
	To **Humanities** :		
9,625.67	Teaching Staff—Salary & Allowances ...		7,956.94
276.92	Provident Fund Contribution ...		—
	To **National Cadet Training** :		
3,650.00	Honorarium to Cadet Officers ...	3,700.00	
3,950.65	Amenities to Cadets ...	4,250.00	7,950.00
5,63,772.63	Carried over ...		5,74,484.74

UNIVERSITY
& TECHNOLOGY

"Electrical" Engineering for the year ended 31st March 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
8,55,086.38	Brought Forward ...		8,92,742.58
8,55,086.38	Carried over ...		8,92,742.58

JADAVPUR
COLLEGE OF ENGINEERING

Income and Expenditure Account for the existing Degree Courses in "Mechanical" &

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
5,63,772.63	Brought Forward ...		5,74,484.74
4,070.00	To Annual Prizes ...		3,940.00
330.00	,, Gratuity to Staff ...		20,000.00
5,957.89	,, Training of Corporation Trainees		7,211.91
	,, **Other Teaching Expenses :**		
2,846.20	Advertisement & Publicity ...	4,645.18	
1,961.40	Printing of Prospectus ...	1,544.55	6,189.73
	,, **Office Expenses :**		
63,899.68	Office Staff—Salary & Allowances	60,790.57	
3,500.01	Leave Vacancies & Allowances...	3,500.00	64,290.57
1.00	Contingencies		
	,, **Subordinate Staff :**		
54,781.33	Darwans, Sweepers, Malers and Bearers ...	57,108.87	
3,255.80	Leave Vacancies & Allowances...	3,884.07	60,992.94
	,, **Provident Fund Contribution :**		
10,346.13	Office Staff, Subordinate Staff & Other Establishment ...		10,228.81
48,834.30	,, Dearness Allowance—Govt. of West Bengal ...		54,353.01
	,, **Other Establishment :**		
28,177.89	General Maintenance Staff ...	28,562.93	
11,564.98	Electrical Installation Maintenance Staff	11,509.61	
4,965.00	Construction Maintenance Staff	5,200.00	
4,778.78	Play ground Maintenance Staff..	5,509.39	
793.27	Leave Vacancies & Allowances...	1,055.93	51,837.86
	,, **General Repairs & Maintenance**		
12,894.11	Main & Other Buildings ...	9,650.53	
1,718.17	Roads & Drainage ...	604.01	
531.44	Sanitary arrangement ...	691.53	
3,116.97	Gas and Water connection ...	1,707.15	
16,285.52	Electric Installation ...	9,781.44	
2,971.53	Office & General Furniture & Requisites ...	2,766.28	
1,825.74	Gardening and Planting ...	443.93	
2,556.80	Rent and Taxes ...	—	25,644.87
	Puddapukur : ...		2,548.88
8,55,736.57	Carried over ...		8,81,723.32

UNIVERSITY
& TECHNOLOGY

"Electrical" Engineering for the year ended 31st March 1961—(Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
8,55,086.38	Brought Forward ...		8,92,742.58
8,55,086.38	Carried over ...		8,92,742.58

JADAVPUR
COLLEGE OF ENGINEERING

Income & Expenditure Account for the existing Degree Courses in "Mechanical" &

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
8,55,736.57	Brought Forward ...		8,81,723.32
	To Other Expenses		
8,661.72	Admission Expenses ...	10,229.55	
27,521.92	Interest on Loans, Deposits & Overdraft ...	22,224.71	
4,920.00	Rent & Taxes ...	4,920.00	
18,931.94	Electricity ...	18,000.00	
2,402.84	Telephone ...	2,000.00	
4,547.74	Insurance Premium ...	4,795.44	
30.92	Travelling Expenses ...	—	
12,817.42	Printing, Postage & Stationery	8,358.68	
10,940.40	General Contingencies ...	9,385.83	79,914.21
9,46,511.47			Rs. 9,61,637.53

UNIVERSITY
& TECHNOLOGY

"Electrical" Engineering for the year ended 31st March, 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
8,55,086.38	Brought Forward ...		8,92,742.58
91,425.09	By Excess of Expenditure over Income carried to Summary of Income & Expenditure Account		68,894.95
9,46,511.47			Rs. 9,61,637.53

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY
COLLEGE OF ENGINEERING & TECHNOLOGY
CHEMICAL ENGINEERING DEPARTMENT

Income & Expenditure Account for the year ended 31st March, 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To **Chemical Engineering Department**		
1,24,533.85	Teaching Staff—Salary & Allowance ...	1,27,536.58	
14,589.57	,, ,, Pay under Revision of Pay Scales—1st Revision ...	4,000.00	
	,, ,,—Pay under Revision of Pay Scales—2nd Revision ...	10,803.04	
6,201.42	Laboratory, Store & Office Assistant—Salary & Allowances	6,452.27	
15,404.70	Mistries, Helpers & Bearers—Salary & Allowances ...	14,218.09	
10,855.48	Provident Fund Contribution ...	10,755.76	
5,031.05	Leave, Vacancies & Allowances	2,936.65	
27,152.50	Laboratory Teaching Expenses	25,989.19	
10,408.29	Power—Staff & Stores ...	12,707.73	
1,238.06	Excursion Expenses ...	1,233.03	
	Repaires & Maintenance :—		
1,972.40	Furniture & Equipment ...	2,067.44	
787.09	Gas & Water connection ...	1,169.30	
1,829.60	Building ...	3,190.69	
1,776.50	Books & Jaurnals ...	4,169.01	
1,909.77	Contingencies ...	2,115 39	2,29,344.17
	,, **Research**		
7,907.09	Research expenses ...	7,687.74	
8,051.61	Research Scholarship (Out of Govt. of India Grant)	7,643.45	15,331.19
2,39,648.98		Rs.	2,44,675.36

Previous Year	INCOME	Rs. nP.	Rs. nP.
39,850.00	By Fees from Students-Tuition Fee		37,681.00
	,, Recurring Grant from Govt, of West Bengal :		
1,70,000.00	For Maintenance of the Department ...	1,65,000.00	
	For Revision of Pay Scales ...	3,057.91	1,68,057.91
6,651.61	,, Research Scholarship from Govt. of India ...		8,134.19
	,, Recurring Grant from University Grants' Commission :		
12,231.65	For Revision of Pay Scales 2nd Revision ...		11,030.00
10,915.72	,, Excess of Expenditure over Income carried to Summary of Income & Expenditure Account		19,772.26
2,39,648.98		Rs. ...	2,44,675.36

JADAVPUR UNIVERSITY
COLLEGE OF ENGINEERING & TECHNOLOGY
CHEMICAL ENGINEERING DEPARTMENT

Income & Expenditure Account for the year ended 31st March, 1961 (Contd)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
			Part time Degree Courses in Engineering
17,130.00	To Teaching Staff for Lectures	50,495.00	
3,833.33	,, Co-ordinator ...	6,000.00	
769.43	,, Office-Staff & Laboratory Assistant ...	3,971.04	
587.41	,, Bearers ..	2,814.01	
—	,, Provident fund Contribution ...	104.94	
729.96	,, Materials & Contingencies ...	4,576.93	67,961.92
1,889.87	,, Unspent balance carried to Balance Sheet ...		—
24,940.00			Rs. 67,961.92
—	To Balance Brought down ...		17,356.92
—			Rs. 17,356.92

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Recurring Grant :		
8,200.00	From University Grants Commission for Staff & Maintenance ...		17,505.00
	,, Fees from Students :		
	Tuition Fee—		
3,600.00	Mechanical Engineering ...	5,300.00	
3,600.00	Electrical ,, ...	4,760.00	
9,540.00	Civil ,, ...	19,380.00	
—	Admission Fee	3,660.00	33,100.00
	,, Balance carried down ...		17,356.92
24,940.00			Rs. 67,961.92
—	By Unspent balance carried from last year ...		1,889.87
—	,, Excess of Expenditure over Income carried to Summary of Income & Expenditure account		15,467.05
			Rs. 17,356.92

JADAVPUR UNIVERSITY
COLLEGE OF ARTS & SCIENCE
Income & Expenditure Account for the year ended 31st March, 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Administration :		
18,720.00	Principal—University college of Arts ...	18,720.00	
2,120.00	Principal—University college of Science ...	12,820.00	
1,587.49	Provident Fund Contribution ...	2,508.30	34,048.30
22,427.49			
	,, Department of Bengali :		
45,304.29	Teaching Staff— Salary & Allowances ...	47,439.03	
300.00	Teaching Staff— Pay under revision of Pay Scale ...	300.00	
2,422.31	Provident Fund Contribution ...	3,495.77	
343.15	Books & Journals ...	211.75	51,446.55
48,369.75			
	,, Department of Comparative Literature :		
39,268.14	Teaching Staff— Salary & Allowances ...	48,653.86	
786.66	Teaching Staff— Pay under revision of Pay Scale ...	—	
1,829.22	Provident Fund Contribution ...	2,873.53	
1,002.46	Books & Journals ...	122.01	51,649.40
42,886.48			
	,, Department of Economics :		
62,774.87	Teaching Staff— Salary & Allowances ...	61,934.68	
300.00	Teaching Staff— Pay under revision of Pay Scale ...	300.00	
3,823.36	Provident Fund Contribution ...	4,510.57	
—	Leave Vancies & Allowances ...	4,166.66	
673.08	Books & Journals ...	763.52	
43.95	Contingencies ...	50.05	71,725.48
67,615.26			
	,, Department of English :		
67,469.93	Teaching Staff— Salary & Allowances ...	70,255.98	
2,458.02	Provident Fund Contribution ...	2,989.10	
848.00	Books & Journals ...	925.20	74,170.28
70,775.95	Carried over ...		2,83,040.01

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Fees from Students :		
1,45,880.00	Tuition Fee ...		1,61,861.00
	,, Fees for Language Classes :		
5,107.00	German ...	3,756.00	
964.00	Russian ...	628.00	
956.00	French ...	628.00	6,012.00
7,027.00			
	,, Other Receipts :		
8,640.00	Admission Fee ...	9,656.00	
3,494.11	Breakage, Fine etc ...	5,967.94	
521.40	Sale Proceeds of Prospectus ...	1,481.47	
3,413.00	Registration (Admission) ...	5,487.50	22,592.91
16,068.51			
	,, Subvention from Govt. of West Bengal :		
31,715.06	For Dearness Allowance ...		34,246.45
	,, Recurring Grant :		
	Govt. of West Bengal :		
30,000.00	For Maintenance of the College		—
2,981.05	For Revision of Pay Scales ...		—
	,, University Grants' Commission:		
6,389.32	For Revision of Pay Scales ...		6,330.66
39,370.37			
2,40,060.94	Carried Over ...		2,31,043.02

JADAVPUR UNIVERSITY
COLLEGE OF ARTS & SCIENCE
Income & Expenditure Account for the year ended 31st March 1961—(Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	Brought Forward ...		2,83,040.01
	To Department of History :		
	Teaching Staff—		
53,237.99	Salary & Allowances ...	56,716.71	
	Teaching Staff—		
	Pay under revision of Pay		
300.00	Scale ...	300.00	
3,173.05	Provident Fund Contribution ...	2,856.75	
869.13	Books & Journals ...	1,019.85	60,893.31
57,580.17			
	,, **Department of International Relations :**		
	Teaching Staff—		
50,178.37	Salary & Allowance ...	47,198.97	
1,428.56	Bearer ...	1,415.18	
2,356.62	Provident Fund Contribution...	1,982.05	
—	Leave Vacancies & Allowances	3.90	
802.56	Books & Journals ...	903.11	
43.65	Contingencies ...	77.58	51,580.79
54,809.76			
	,, **Department of Philosophy :**		
	Teaching Staff—		
57,417.08	Salary & Allowances ...	59,127.25	
3,696.84	Provident Fund Contribution...	4,385.88	
—	Leave Vacancies & Allowances	561.29	
865.44	Books & Journals ...	1,085.58	65,160.00
61,979.36			
	,, **Department of Sanskrit :**		
42,685.15	Teaching Staff ...	49,076.51	
2,893.33	Provident Fund Contribution...	2,540.85	
365.29	Books & Journals ...	820.20	52,437.56
45,943.77			
	,, **Department of Mathematics :**		
	Teaching Staff—		
53,918.37	Salary & Allowances ...	56,473.20	
	Teaching Staff—		
1,200.00	Pay under revision of Pay Scales	1,200.00	
670.85	Bearer-Salary & Allowances ...	700.85	
2,790.21	Provident Fund Contribution...	3,136.62	
1.43	Leave Vacancies & Allowances	870.00	
308.53	Books and Journals ...	957.96	
56.91	Contingencies ...	89.90	63,428.53
58,946.30			
	Carried Over ...		5,76,540.20

UNIVERSITY
ARTS & SCIENCE
year ended 31st March 1961—(Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,40,060.94	Brought Forward ...		2,31,043.02

JADAVPUR UNIVERSITY
COLLEGE OF ARTS & SCIENCE
Income & Expenditure Account for the year ended 31st March 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	Brought Forward ...		5,76,540.20
	To Department of Physics :		
	Teaching Staff—		
89,466.57	Salary & Allowances ..	1,00,270.24	
1,500.00	Teaching Staff—Pay under revision of pay scales ...	1,500.00	
5,358.86	Laboratory & Store Assistant— Salary and Allowances ...	6,355.74	
18,032.26	Technical Staff—Mistries and Bearers—Salary & Allowances	17,346.71	
7,250.70	Provident Fund Contribution ...	8,019.86	
1,081.07	Leave Vacancies & Allowances	2,325.65	
15,048.88	Laboratory Teaching expenses	15,850.25	
373.01	Repairs and Maintenance ...	1,479.54	
1,116.44	Books & Journals ...	3,184.93	
830.88	Contingencies ...	846.99	1,57,179.91
1,40,058.67			
	,, **Department of Chemistry :**		
	Teaching Staff—		
1,24,374.17	Salary & Allowances ...	1,24,929.80	
2,400.00	Teaching Staff— Pay under revision of Pay Scale ...	2,100.00	
6,240.21	Laboratory & Store Assistant— Salary & Allowances ...	7,107.62	
	Technical Staff—Bearers & Helpers—		
8,548.30	Salary & Allowances ...	10,713.45	
9,354.15	Provident Fund Contribution ...	9,421.31	
3,309.20	Leave Vacancies & Allowances	3,445.28	
50,042.42	Laboratory Teaching expenses	64,039.79	
3,198.15	Repairs & Maintenance ...	2,047.98	
622.18	Books & Journals ...	3,971.00	
1,057.14	Contingencies ...	1,790.81	2,29,567.04
2,09,145.92			
	,, **Department of Geological Sciences** ...		
	Teaching Staff—		
50,544.24	Salary & Allowances ...	54,283.23	
1,200.00	Teaching Staff— Pay under revision of Pay Scale ...	1,200.00	
	Laboratory & Museum Assistant—		
1,575.00	Salary & Allowances	3,140.00	
53,319.24		58,623.23	
	Carried Over ...		9,63,287.15

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,40,060.94	Brought Forward ...		2,31,043.02
2,40,060.94	Carried over ...		2,31,043.02

JADAVPUR UNIVERSITY
COLLEGE OF ARTS & SCIENCE
Income & Expenditure Account for the year ended 31st March 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	Brought Forward ...		9,63,287.15
	To Department of Geological Sciences (*Contd.*) ...	58,623.23	
53,319.24	Technical Staff & Bearer— Salary & Allowances	7,762.06	
6,833.71	Provident Fund Contribution	3,878.82	
3,469.37	Leave Vacancies & Allowances	651.78	
114.36	Laboratory Teaching expenses	5,865.36	
7,126.62	Field work expenses ...	7,118.68	
6,730.95	Repairs & Maintenance	452.78	
275.63	Books & Journals ...	1,324.40	
726.83	Contingencies ...	973.90	86,651.01
704.25			
79,300.96			3,777.94
6,833.15	,, Expenses on Language Classes		
	,, Dearness Allowance—		34,951.57
30,662.72	Govt. of West Bengal		
	,, **Office Expenses**		
	Office Staff—		
9,120.04	Salary & Allowances ...	14,912.07	
	Darwans, Sweepers, Mistries		
14,886.70	Bearers—Salary & Allowances	17,575.95	
1,054.38	Provident Fund Contribution	1,569.51	
3,289.81	Leave Vacancies & Allowances	9,406.62	43,464.15
28,350.93			
	,, **Others Expenses**		
2,345.70	Printing of Prospectus ...	1,785.00	
408.00	Annual Prizes ...	318.00	
3,984.30	Admission Expenses ...	4,048.66	
6,074.11	Gas & Electricity ...	6,863.17	
1,182.00	Printing, Postage & Stationery	1,376.26	
1,902.96	Advertisement Expenses ...	2,143 25	
695.49	Repairs & Maintenance ...	832.35	
3,146.79	General Contingencies ...	2,496,27	19,862.96
19,739.35			
10,47,425.99		Rs.	11,51,994.78

Previous Year	INCOME	Rs. nP.	Rs. nP.
2,40,060.94	Brought Forward ...		2,31,043.02
8,07,365.05	By Excess of Expenditure over Income carried to Summary of Income & Expenditure ...		9,20,951.76
10,47,425.99		Rs.	11,51,994.78

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY

Income & Expenditure Account for the year ended 31st March, 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To **Hostel-Main Block :**		
12,479.40	Staff—Salary & Allowances ...	14,686.53	
579.58	Provident Fund Contribution ...	650.14	
702.81	Leave Vacancies & Allowances	621.17	
2,614.44	Rent and Taxes ...	2,909.97	
13,375.88	Electricity Charges ...	14,049.43	
243.88	Telephone ...	356.61	
5,837.21	Union Expenses ...	2,770.52	
9,938.80	Establishment Charges ...	9,862.27	
3,866.81	Social Charges ...	2,448.97	
421.01	Utensils & Stores ...	1,499.54	
	Repairs & Maintenance—		
102.24	Furniture & Fixture ...	91.85	
	Sanitary & Electric Installation ...	2,134.16	
176.66	Buildings & Sites ...	695.00	
8,893.06	Contingencies ...	1,511.69	
1,174.42	Repayment of Interest—		
	Free loans for Land and Buildings ...	60,778.25	1,15,066.10
60,778.25			
1,21,184.45			
J. P & S. P. T Hostel (Combined)			
	,, **Hostel-Jadavpur Polytechnic Block**		
3,810.67	Staff—Salary & Allowances ...	1,324.40	
5,711.52	Electricity Charges ...	2,532.19	
4,732.68	Establishment Charges ...	2,350.01	
—	Social Charges ...	195.50	
8,500.00	Furniture ...	—	
332.98	Repairs & Maintenance ...	—	
215.58	Contingencies ...	—	
	Contribution towards repayment of Loans ...	8,485.00	14,887.10
2,277.00			
25,580.43			
	,, **Hostel-School of Printing Technology Block :**		
	Staff—Salary & Allowances ...	3,101.90	
	Electricity charges ...	3,200.89	
	Establishment charges ...	2,350.01	
	Social Charges ...	195.50	
	Contingencies ...	15.63	
	Contribution towards repayment of Loans ...	12,750.00	21,613.93
1,46,764.88	Carried over ...		1,51,567.13

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Hostel—Main Block :**		
65,306.99	Seat Rent from Boarders ...	63,286.34	
2,645.00	Admission Fee ...	2,535.00	
11,464.53	Electricity Charges ...	11,391,10	
6,855.57	Union Fee ...	7,819.72	
12,369.25	Establishment Fee ...	13,383.38	
1,770.43	Social Fee ...	820.87	
1,141.27	Fine & Sale of Receipt Books...	834.59	1,00,071.00
1,01,533.04			
J. P. & S. P. T. Hostels (Combined)			
	,, **Hostel—Jadavpur Polytechnic Block :**		
19,056.50	Seat Rent from Boarders ...	10,587.56	
930.00	Admission Fee ...	395.00	
3,218.00	Electricity Charges ...	2,032.00	
3.12	Union Fee ...	—	
7,348.63	Establishment Fee ...	2,874.55	
236.00	Social Fee ...	277.00	
177.97	Fine & Sale of Receipt Books ...	102.19	16,268.30
30,970.22			
	,, **Hostel—School of Printing Technology Block :**		
	Seat Rent from Boarders ...	8,504.30	
	Admission Fee ...	420.00	
	Electricity Charges ...	2,546.00	
	Establishment Fee ...	4,164.62	
	Social Fee ...	262.25	
	Fine & Sale of Receipt Books ...	77.28	15,974.45
	,, **New Hostel—For Boys :**		
	Seat Rent from Boarders ...	3,600.30	
	Electricity Charges ...	378.00	
	Fine ...	23.21	4,001.51
	,, **Hostel—For Girls :**		
	Seat Rent from Boarders ...	1,278.00	
	Admission Fee ...	155.00	
	Electricity Charges ...	142.00	
	Fine ...	2.50	1,577.50
14,241.62	,, Excess of expenditure over Income carried to Summary of Income & Expenditure Account ...		19,759.63
1,46,764.88	Carried over ...		1,57,652.39

JADAVPUR UNIVERSITY

Income & Expenditure Account for the year ended 31st March 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP,	Rs. nP.
1,46,764.88	Brought Forward ...		1,51,567.13
	To New Hostel—For Boys		
	Staff-Salary & Allowances ...	768.00	
—	Provident Fund Contribution...	11.45	
—	Electricity Charges ...	1,538.45	
	Recreation Expenses ...	607.25	
—	Utensils & Stores ...	246.21	
	Contingencies ...	332.45	3,503.81
	To Hostel For Girls :		
	Staff—Salary & Allowances ...	615.06	
	Electricity Charges ...	279.69	
	Utensils & Stores ...	1,569.73	
	Contingencies ...	116.97	2,581.45
1,46,764.88			Rs. 1,57,652.39

Previous Year	INCOME	Rs. nP.	Rs. nP.
1,46,764.88	Brought Forward ...		1,57,652.39
1,46,764.88			Rs. 1,57,652.39

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR
COLLEGE OF ENGINEERING & EXPANSION OF TRAINING CAPACITY OF THE
Income & Expenditure Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Mechanical Engineering Department :		
	Teaching Staff –		
71,621.19	Salary & Allowances ...	73,302.41	
	Teaching Staff – Pay under revision of		
12,388.33	Pay Scales-1st revision ...	5,234.69	
	Teaching Staff— Pay under revision of		
—	Pay Scales-2nd revision ...	5,372.90	
	Laboratory & Office Assist.		
1,450.00	Salary & Allowances ...	1,484.21	
	Technical Staff-Mistries, Helper, Bearers—		
15,022.95	Salary & Allowances ...	17,682.99	
6,709.80	Provident Fund Contribution...	6,999.85	
189.61	Leave Vacancies & Allowances	269.15	
11,758.18	Laboratory Teaching Expenses	13,532.22	1,23,878.42
1,19,140.06			
	,, Electrical Engineering Department :		
	Teaching Staff—		
28,879.42	Salary & Allowances ...	48,265.32	
	Teaching Staff— Pay under revision of		
4,350.00	Pay Scales-1st revision ...	550.00	
	Teaching Staff— Pay under revision of		
—	Pay Scales-2nd revision ...	13,158.71	
	Laboratory & Office Assist.		
1,600.16	Salary & Allowances ...	2,533.17	
	Technical Staff-Mistries, Helpers, Bearers—		
5,385.07	Salary and Allowances ...	6,212.79	
2,696.64	Provident Fund Contribution...	5,019.71	
25.03	Leave Vacancies & Allowances	133.66	
10,147.47	Laboratory Teaching Expenses	12,237.21	88,110.57
53,083.79			
	Carried over ...		2,11,988.99

UNIVERSITY TECHNOLOGY
DEGREE COURSES IN ENGINEERING
year ended 31st March, 1961

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Fees from Students :**		
4,800.00	Mechanical Engineering ...	6,480.00	
14,400.00	Electrical Engineering ...	19,440.00	
12,920.00	Civil Engineering ...	19,440.00	
	Tele-Communication		66,890.00
17,880.00	Engineering ..	21,530.00	
50,000.00			
	,, **Recurring Grant :**		
	University Grants Commission :		
1,33,137.00	For Maintenance ...	1,53,259.00	
	Govt. of West Bengal		
1,33,137.00	For Maintenance ...	1,53,259.00	
	University Grants— Commission :—		
	For revision of Pay		
15,175.82	Scales-2nd revision ...	38,539.68	
	Govt. of West Bengal :		
	For Revision of Pay		3,48,851.63
2,81,449.82	Scales 1st revision ...	3,793.95	
	,, **Grant from Govt. of West Bengal**		
	For Educational Tour ...	1,930.83	
	Less unspent balance refunded	234.04	1,696.79
3,31,449.82	Carried over ...		4,17,438.42

JADAVPUR
COLLEGE OF ENGINEERING
EXPANSION OF TRAINING CAPACITY OF THE
Income & Expenditure Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	Brought Forward ...		2,11,988.99
	„ **Civil Engineering Department :**		
	Teaching Staff—		
19,024.97	Salary & Allowances ...	20,444.18	
	Teaching Staff—		
	Pay under revision of		
320.16	Pay Scales-1st revision ...	—	
	Teaching Staff—		
	Pay under revision of		
—	Pay Scales-2nd revision ...	4,253.10	
	Laboratory & Office Assist—		
1,384.83	Salary & Allowances ...	1,444.82	
	Technical Staff—Mistries		
	Helpers & Bearers—		
8,148.39	Salary & Allowances ..	9,051.45	
963.28	Provident Fund Contribution ...	1,894.95	
70.73	Leave Vacancies & Allowances	158.70	
7,842.05	Laboratory Teaching Expenses	7,048.04	44,295.24
37,754.41			
	„ **Physics :**		
	Teaching Staff—		
1,015.00	Salary & Allowances ...	9,422.50	
1,123.66	Bearer „ „ ...	1,153.61	
57.62	Provident Fund Contribution ...	140.35	
791.82	Laboratory Teaching Expenses	1,470.12	12,186.58
2,988.10			
	„ **Mathematics :**		
	Teaching Staff—		
10,635.15	Salary & Allowances ...	12,292.17	
711.19	Bearer „ „ ...	741.75	
541.62	Provident Fund Contribution ...	539.60	13,573.52
11,887.96			
	„ **Telecommunication Engineering Department :**		
	Teaching Staff—		
42,158.14	Salary & Allowances ...	44,818.14	
	Teaching Staff—		
	Pay under revision of Pay		
437.90	scales 1st revision ...	300.00	
42,596.04		45,118.14	
	Carried Over ...		2,82,044.33

UNIVERSITY
& TECHNOLOGY
DEGREE COURSES IN ENGINEERING
year ended 31st March, 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
3,31,449.82	Brought Forward ...		4,17,438.42
	By Balance carried down ...		5,043.71
3,31,449.82	Carried over ...		4,22,482.13

JADAVPUR
COLLEGE OF ENGINEERING
EXPANSION OF TRAINING CAPACITY OF
Income & Expenditure Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	Brought Forward		2,82,044.33
	To **Telecommunication Engineering Department** (*Contd.*)	45,118.14	
42,596.04	Teaching Staff— Pay under revision of Pay Scales 2nd revision ...	12,121.86	
	Laboratory & Office Assistant—		
2,738.84	Salary & Allowances ...	1,564.84	
	Technical Staff—Mistries, Helpers, Bearers—		
26,822.36	Salary & Allowances ...	32,615.88	
3,516.13	Provident Fund Contribution ...	5,933.23	
80.57	Leave Vacancies & Allowances	285.62	
10,302.11	Laboratory Teaching Expenses	18,666.24	
98.25	Repairs & Maintenance ...	1,349.69	
—	Education Tour ...	3,153.87	
74.95	Books & Journals ...	703.44	
1,050.19	Contingencies ...	2,107.92	1,23,620.73
87,279.44			
	,, **Chemistry :**		
	Teaching Staff—		
2,610.00	Salary & Allowances ...	2,201.21	
631.21	Laboratory Teaching Expenses	1,569.06	3,770.27
3,241.21			
	,, **Office Expenses :**		
3,413.06	Office Staff—Salary & Allowances ...	3,578.65	
7,214.91	Mistries, Helpers, Bearers Salary & Allowances ...	7,782.71	
421.26	Provident Fund Contribution ...	547.47	
441.01	Leave Vacancies & Allowances ...	1,137.97	13,046.80
11,490.24			
4,584.61	,, Balance carried down ...		—
Rs. 3,31,449.82			Rs. 4,22,482.13
—	To Balance Brought down ...		5,043.71
8,506.58	,, Unspent balance carried to Balance Sheet ...		3,462.87
Rs. 8,506.58			Rs. 8,506.58

UNIVERSITY
& TECHNOLOGY
THE DEGREE COURSES IN ENGINEERING
year ended 31st March 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
3,31,449.82	Brought Forward ...		4,22,482.13
Rs. 3,31,449.82			Rs. 4,22,482.13
4,584.61	By Balance brought down ...		—
3,921.97	,, Unspent balance carried from last Year ...		8,506.58
Rs. 8,506.58			Rs. 8,506.58

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR
COLLEGE OF ENGINEERING
Income & Expenditure Account for the year ended 31st March, 1961.

Degree Courses in Civil Engineering

Previous year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Civil Engineering Department :		
69,894.46	Teaching Staff— Salary & Allowances ...	95,061.05	
3,741.93	Teaching Staff— Pay under revision of Pay Scales—1st revision ...	1,252.52	
—	Teaching Staff— Pay under revision of Pay Scales—2nd revision ...	12,963.95	
1,374.19	Laboratory Assistant— Salary & Allowances ...	1,468.71	
12,204.46	Technical Staff—Mistries, Helpers, & Bearers— Salary & Allowances ...	13,479.52	
4,410.89	Provident Fund Contribution...	7,559.21	
3,981.22	Leave Vacancies & Allowances	474.29	
3,493.71	Laboratory Teaching expenses	2,062.52	
—	Repairs & Maintenance ...	1,054.66	
9,151.09	Field work expenses ...	7,824.80	
5,000.00	Electricity charges ...	5,000.00	
1,286.95	Books & Journals ...	1,174.49	
1,101.83	Contingencies ...	1,021.22	1,50,396.94
1,15,640.73			
4,253.92	Expenses on Educational Tour		—
—	,, Unspent balance carried to Balance Sheet ...		19,070.53
1,19,894.65		Rs. ...	1,69,467.47

UNIVERSITY
& TECHNOLOGY
year ended 31st March, 1961.

Civil Engineering

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Fees from Students		
34,700.00	Tuition Fee ...		42,011.00
	,, Recurring Grant		
26,418.00	University Grants' Commission For Staff & Maintenance ...	36,316.00	
48,000.00	Govt. of West Bengal For Staff & Maintenance	72,632.00	
2,993.54	University Grants' Commission For revision of Pay Scales 2nd revision ...	15,780.09	
—	Govt. of West Bengal For revision of Pay Scales 1st revision ...	748.38	1,25,476.47
1,12,111.54			
—	**,, Grant from Govt. of West Bengal** For Educational Tour ...		1,980.00
7,783.11	,, Excesss of Expenditure over Income ...		—
1,19,894.65		Rs. ...	1,69,467.47

JADAVPUR
COLLEGE OF ENGINEERING
Income & Expenditure Account for the

Post-Graduate Course

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	,, Teaching Staff—		
4,445.00	Salary & Allowances ...	9,695.00	
—	,, Pay under revision of Pay Scales 2nd revision ...	320.00	
	,, Laboratory Assistant—		
546.33	Salary & Allowances ...	1,600.98	
515.23	,, Bearer—Salary & Allowances...	751.18	
1,553.12	,, Research Scholar ...	1,996.99	
152.25	,, Repairs & Maintenance ...	393.03	
613.60	,, Provident Fund Contribution...	815.15	
—	,, Leave Vacancies & Allowances	70.66	
10,363.90	,, Laboratory Teaching ...	9,905.13	
	,, Research Expenses ...	223.99	
—	,, Books & Journals ...	413.33	
422.23	,, Contingencies ...	1,291.42	
18,611.66			27,476.86
269.34	,, Balance carried down ...		1,437.14
18,881.00		Rs. ...	28,914.00
269.34	,, Unspent balance carried to Balance Sheet.		1,706.48
269.34		Rs. ...	1,706.48

UNIVERSITY
& TECHNOLOGY
Year Ended 31st March, 1961. (Contd.)

in Food Technology

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Grant from University Grants' Commission :		
18,881.00	For Staff & Maintenance ...		28,859.00
	,, Revision of Pay Scales-2nd revision ...		55.00
18,881.00		Rs. ...	28,914.00
269.34	By Balance brought down ...		1,437.14
	,, Unspent balance carried from last year ...		269.34
269.34		Rs. ...	1,706.48

JADAVPUR

RESEARCH SCHEMES IN FACULTIES

Income & Expenditure Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Chemistry		
6,098.39	Research Personnel ...	5,223.30	
16,262.19	Research Expenses ...	18,752.63	23,975.93
22,360.58			
	,, **Physics :**		
817.74	Research Personnel ...	1,287.09	
12,038.41	Research Expenses ...	9 556.18	10,843.27
12,856.15			
	,, **Research Scheme of Dr. S. C. Ganguli :**		
	(Physics)		
1,800.00	Research Assistant ...	—	
3,143.20	Istrument ...	1,238.65	
450.79	Books ...	95.40	
535.81	Chemicals ...	30.98	
380.53	Contingencies ...	871.03	2,236.06
6,310.33			
	,, **Research Scheme under Kumar P. N. Roy :**		
25,382.40	Charitable Trust (Physics & Chemistry) ...		8,750.45
944.25	,, Pankajini Bose Research Fellowship in Physics : ...		3,150.00
11,356.99	,, Research Scholarship out of Government of India Grant...		18,601.72
	,, Research Scholarship in Bengali out of Govt. of West Bengal Grant :		
1,300.00			1,200.00
361.04	,, Survey of Small Scale Industries ...		—
	,, **Scheme on Import Implications on Economic Development :**		
7,532.52	Staff ...	1,560.35	
954.31	Travelling & Halting Allowances ..	316.89	
850.00	Processing & Tabulation of Data ...	2,467.74	
617.57	Stationery, Typing etc.	177.37	
2,388.75	Equipment & Other Accessories ...	—	4,522.35
12,343.15			
93,214.89	Carried over ..		73,279.78

UNIVERSITY

OF ARTS & SCIENCE & ENGINEERING

Year Ended 31st March, 1961

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Kumar P. N. Roy Charitable Trust :**		
	Income from Rent of donated Buildings at Alipur ...		13,113.00
15,193.90			
	,, Research Scholarship from Govt. of India ...		17,564.30
11,903.66			
	,, Research Scholarship in Bengali from Govt. of West Bengal ...		1,100.00
1,200.00			
	,, **Grant from Govt. of India :**		
	Scheme on Import Implications on Economic Development ...		2,051.00
18,429.00			
	,, **Grant from Govt. of West Bengal :**		
	For Research Scheme of Dr. S. C. Ganguli Research Assistant ...	1,800.00	
	Contingencies ...	1,200.00	3,000.00
8,200.00			
	,, **Grant from Govt. of West Bengal :**		
	For Research in Geological Science ...		5,839.63
—			
	,, **Research Grant from Firms :**		
	1. Binartium & Co. Private Ltd. for Geological Sciences	1,200.00	
900.00			
	2. Eyre Smelting Co. Private Ltd. for Food Technology :		
	Staff 3,000.00		
	Contingencies 1,500.00	4,500.00	
	3. Tuins Products Co. for Food Technology :		
	Staff 375.00		
	Contingencies 75.00	450.00	
	4. Indian Hard Metal Private Ltd. for Geological Sciences	10,000.00	16,150.00
	,, University Grants Commission For Research work Firmentation Technology :		
	Staff		
	Contingencies ...	2,613.33	
	,, Excess of expenditure over income carried down ...	1,000.00	3,613.33
37,388.33			
93,214.89	Carried Over ...		82,210.28

JADAVPUR UNIVERSITY

RESEARCH SCHEME IN FACULTIES OF ARTS & SCIENCE ENGINEERING

Income & Expenditure Account for the year ended 31st March 1961 (Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
93,214.89	Brought Forward		73,279.78
	To Research Scheme on Population Council :		
	Staff ...		222.23
	,, Research Expenses in Geological Sciences :		
	(Out of Grant from Govt. of West Bengal) ...		2,986.75
	,, Research Scheme in Food Technology :		
	(Out of Grant from Eyre Smelting Co. Pr. Ltd.)		
	Staff ...	1,991.94	
	Contingencies ...	1,596.30	3,588.24
	,, Research Scheme in Food Technology :		
	(Out of Grant from Tuins Products Co.)		
	Staff ...	733.87	
	Contingencies ...	78.77	812.64
	,, Research Scheme in Geological Science :		
	(Out of Grant from Indian Hard Metal Pr. Ltd.) ...		900.00
	,, Research Scheme on Fermentation Technology :		
	(Out of University Grants Commission Grant)		
	Contingencies ...		420.64
93,214.89			Rs. 82,210.28
37,388.33	To Balance Brought down ...		19,779.02
10,059.78	,, Balance transferred to Balance Sheet		25,099.96
47,448.11			Rs. 44,878.98

Previous Year	INCOME	Rs. nP.	Rs. nP.
93,214.89	Brought Forward ...		82,210.28
93,214.89			Rs. 82,210.28
13,131.38	By Balance of Research Fund—Dr. S. C. Ganguli & others carried from last year ...		10,059.78
34,316.73	,, Amount transferred to Summary of Income & Expenditure Account ...		34,819.20
47,448.11			Rs. 44,878.98

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY

RESEARCH SCHEMES SPONSORED BY THE COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH INDIAN COUNCIL OF AGRICULTURAL RESEARCH

Income & Expenditure Account for the year ended 31st March 1961

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To **Schemes of Council of Scientific & Industrial Research :**		
	(a) Research Scheme on Characteristics of Gases :		
	Staff ...	6,143.46	
10,454.17	Contingencies ...	1,945.16	8,088.62
	(b) Research Scheme on Coal Petrology :		
	Staff ...	3,600.00	
4,369.45	Contingencies ...	994.38	4,594.38
	(c) Research Scheme on Helices in Antenna problems :		
1,467.35	Staff ...		198.00
	(d) Research Scheme on High Frequency Titration :		
	Staff ...	684.94	
902.62	Contingencies ...	981.97	1,666.91
	(e) Research Scheme on Investigation of Steriods :		
	Staff ...	3,173.78	
5,652.84	Contingencies ...	994.14	4,167.92
	(f) Research Scheme on Non-Aquous Acid Base Titration :		
	Staff ...	5,167.74	
6,232.23	Contingencies ...	2,313.03	7,480.77
	(g) Research Scheme on Pressure Leaching of Copper Ores :		
	Staff ...	3,586.67	
3,997.50	Contingencies ..	998.19	4,584.86
	(h) Research Scheme on Studies on Storage & Respiration of Regional Fruits :		
	Staff ...	4,556.74	
5,287.89	Contingencies ...	2,048.46	6,605.20
	(i) Research Scheme on Separation of Heavy Metals by Ion Exchange :		
	Staff ...	7,800.00	
7,628.48	Contingencies ...	2,818.27	10,618.27
	(j) Research Scheme on Varietal Suitability :		
3,378.36	Staff ...		801.64
49,370.89	Carried over ...		48,806.57

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By **Schemes of Council of Scientific & Industrial Research :**		
	(a) Research Scheme on Characteristics of Gases :		
	Staff ...	7,903.55	
7,810.75	Contingencies ...	1,968.16	9,871.71
	(b) Research Scheme on Coal Petrology :		
	Staff ...	3,600.00	
4,450.00	Contingencies ...	485.57	4,085.57
	(c) Research Scheme on High Frequency Titration :		
	Staff ...	1,257.52	
2,479.85	Contingencies	500.00	1,757.52
	(d) Research Scheme on Investigation of Steriods :		
	Staff ...	2,824.50	
5,754.19	Contingencies ...	1,000.00	3,824.50
	(e) Research Scheme on Non-Aquous Acid Base Titration :		
	Staff ...	7,267.74	
6,007.63	Contingencies ...	2,398.04	9,665.78
	(f) Research Scheme on Pressure Leaching of Copper Ores :		
	Staff ...	5,000.00	
4,057.70	Contingencies ...	739.80	5,739.80
	(g) Research Scheme on Studies on the Storage & Respiration of Regional Fruits :		
	Staff ...	4,336.33	
4,978.34	Contingencies ...	2,000.00	6,336.33
	(h) Research Scheme on Separation of Heavy Metals by Ion Exchange :		
	Staff ...	7,300.00	
8,030.37	Contingencies ...	2,979.76	10,279.76
	(i) Research Scheme on Study of Bacterial Production of Sulpher :		
	Staff ...	3,000.00	
4,346.77	Contingencies ...	2,310.60	5,310.60
47,915.60	Carried over ...		56,871.57

JADAVPUR UNIVERSITY

RESEARCH SCHEMES SPONSORED BY THE COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH & INDIAN COUNCIL OF AGRICULTURAL RESEARCH

Income and Expenditure Account for the year ended 31st March 1961—(Contd.)

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
49,370.89	Brought Forward ...		48,806.57
696.46	(ji) Research Scheme on Mercaptans as Modifiers in Emulsion Polymerisation :		—
4,157.37	(k) Research Scheme on Study of Bacterial Production of Sulpher : Staff ...	3,000.00	
	Contingencies ...	2,437.02	5,437.02
2,948.65	(l) Research Scheme on Study of Indian Gums : Staff	2,741.94	
	Contingencies	927.44	3,669.38
3,333.42	(m) Research Scheme on Investigation of Hydrochryso Fluorive Ring System : Staff ...	4,800.00	
	Contingencies ...	1,068.34	5,868.34
3,279.65	(n) Research Scheme on Role of Solvent Temperature—Steric & Electronic : Staff ...	4,389.00	
	Contingencies ...	1,022.17	5,411.17
1,388.53	(o) Research Scheme on Resonance Energy Transfer between Fluoroscent Molecule: Staff ...	4,993.10	
	Contingencies ...	723.28	5,716.38
2,655.59	(p) Research Scheme on Photo Chemical Reaction : Staff ...	3,000.00	
	Contingencies	954.03	3,954.03
3,217.16	(q) Research Scheme on Development of Heat Resistance : Staff ...	3,000.00	
	Contingencies ...	1,273.34	4,273.34
4,766.18	(r) Research Scheme on Phenomena of Electrical Discharge Through Gases : Staff ...	3,000.00	
	Contingencies ...	864.55	
	Equipment ...	3,967.46	7,832.01
1.00	(s) Research Scheme on Design of Dust Filter : Staff ...	2,873.75	
	Contingencies ...	1,000.80	3,874.55
75,814.90	Carried over ...		94,842.79

Previous Year	INCOME	Rs. nP.	Rs. nP.
47,915.60	Brought Forward ...		56,871.57
3,000.00	(j) Research Scheme on Study of Indian Gums : Staff ..	4,500.00	
	Contingencies ...	1,948.65	6,448.65
3,333.33	(k) Research Scheme on Investigation of Hydrochryso Fluorive Ring System : Staff	4,800.00	
	Contingencies	1,200.00	6,000.00
3,328.75	(l) Research Scheme on Role of Solvent Temperature—Steric & Electronic : Staff ...	4,464.00	
	Contingencies ...	1,450.90	5,914.90
2,879.03	(m) Research Scheme on Photo Chemical Reaction : Staff ..	3,000.00	
	Contingencies ...	776.56	3,776.56
3,290.32	(n) Research Scheme on Development of Meat Resistance : Staff ...	3,000.00	
	Contingencies ...	1,426.84	4,426.84
6,500.00	(o) Research Scheme on Phenomena of Electrical Discharges through Gases ; Staff ...	2,232.76	
	Equipment	3,000.00	
	Contingencies ...	1,500 00	6,732.76
1,500.00	(p) Research Scheme on Design of Dust Filter : Staff	2,750.00	
	Contingencies ...	751.00	3,501.00
1,500.00	(q) Research Scheme on Measurement of Anisotrophy of Absorption : Staff ...	1,750.00	
	Contingencies ...	250.00	2,000.00
1,500.00	(r) Research Scheme on Study of Submerged Combustion : Staff ...	2 750.00	
	Contingencies ...	750 00	3,500.00
74,747.03	Carried over		99,172.28

JADAVPUR

RESEARCH SCHEMES SPONSORED BY THE COUNCIL OF

INDIAN COUNCIL OF

Income & Expenditure Account for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
75,814.90	Brought Forward ...		94,842.79
—	(t) Research Scheme on Combustion of Pulverised Coal : Contingencies ...		144.00
—	(u) Research Scheme on Measurement of Anisotrophy of Absorption : Staff ...	2,750.00	
	Contingencies ...	481.07	3,231.07
1.00	(v) Research Scheme on Study of Submerged Combustion : Staff ...	3,000.00	
	Contingencies ...	493.24	3,493.24
—	(w) Research Scheme on Structure Metamorphism & Gramtisation of Manganese ore : Staff	2,800.00	
	Contingencies ...	1,000.80	3,800.80
611.30	(x) Research Scheme on Determination of Heat Resistance : ..		—
17.10	(y) Research Scheme on Investigation of Varatrum Alkaloids ..		—
846.84	(z) Research Scheme on Production of Riboflavin : ...		—
77,291.14	Carried over ...		1,05,511.90

UNIVERSITY

SCIENTIFIC & INDUSTRIAL RESEARCH &

AGRICULTURAL RESEARCH

year ended 31st March, 1961 (Contd.)

Previous Year	INCOME	Rs. nP.	Rs. nP.
74,747.03	Brought Forward ...		99,172.28
—	(s) Research Scheme on Structure Metamorphism & Gramtisation of Manganese Ore : Staff ...	2,800.00	
	Contingencies ...	1,000.00	3,800.00
1,950.00	(t) Research Scheme on Resonance Energy Transfer Between Fluoroscent Molecule : Staff ...	1,200.00	
	Contigencies ...	111.47	1,311.47
1,758.96	(u) Research Scheme on Helices on Antenna Problems :		—
4,056.97	(v) Research Scheme on Varietal Suitability : ...		—
144.00	(w) Research Scheme on Combustion of Pulverised Coal : ...		—
82,656.96	Carried Over ...		1,04,283.75

JADAVPUR UNIVERSITY

RESEARCH SCHEMES SPONSORED BY THE COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH & INDIAN COUNCIL OF AGRICULTURAL RESEARCH

Income & Expenditure Account for the year ended 31st March 1961.—(Contd.)

Previous Year	EXPENDITURE.	Rs. nP.	Rs. nP.
77,291.14	Brought Forward ...		1,05,511.90
	To Indian Council of Agricultural Research:		
	(a) Research Scheme on Study of Microbial Flora of Fresh Water & Deep Sea Fish :		
	Staff ...	3,780.00	
	Apparatus ...	517.72	
	Chemicals & Fish ...	947.70	
5,535.13	Stationery, Printing & Contingencies ...	192.01	5,437.43
	(b) Research Scheme on Improved Method of Transport & Preservation of Fish :		
	Staff ...	2,349.51	
	Apparatus ..	1,006.62	
	Chemicals & Fish	888.29	
—	Stationery, Printing and Contingencies ...	155.64	4,400 06
	(c) Research Scheme on Processing of Inedible or Unpopular Fish :		
332.00			
7,692.08	Balance carried forward ...		—
Rs. 90,850.35			Rs. 1,15,349.39

Previous Year	INCOME	Rs. nP.	Rs. nP.
82,656.96	Brought Forward ...		1,04,283.75
	By **Indian Council of Agricultural Research** :		
	(a) Research Scheme on Study of Microbial Flora of Fresh Water & Deep Sea Fish :		
	Staff ...	3,780.00	
	Apparatus ...	517.72	
	Chemicals & Fish ...	947.70	
8,193.39	Stationery, Printing & Contingencies ...	189.22	5,434.64
	(b) Research Scheme on Improved Method of Transport & Preservation of Fish :		
	Staff ...	2,349.51	
	Apparatus ...	1,006.62	
	Chemicals & Fish	888.29	
—	Stationery, Printing & Contingencies ...	155.64	4,400.06
	,, Balance carried down ...		1,230.94
Rs. 90,850.35			Rs. 1,15,349.39

C. S. I. R. Scheme

To Balance Brought down ...	1,230.94	By Unspent Balance carried from last year's account ... (C.S.I.R. Scheme) 13,721.95
,, Balance carried from last year's account ... (I.C.A.R. Scheme)	193.11	
,, Balance transferred to Balance Sheet ...	12,297.90	
	Rs. 13,721.95	Rs. 13,721.95

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR

DEVELOPMENT OF HIGHER SCIENTIFIC

Income & Expenditure for the

Previous Year	EXPENDITURE	Rs. nP.	Rs. nP.
	To Teaching Staff—		
5,310.77	Salary & Allowances ...	9,363.33	
	,, Other Staff—		
	Salary & Allowances ...	3,561.25	
206.26	,, Provident Fund Contribution ...	194.27	13,118.85
5,517.03			Rs. 13,118.85

DEVELOPMENT OF HIGHER EDUCATIONAL &

Income & Expendi ure Account for the

		Rs. nP.	Rs. nP.
	To **Department of International Relations :**		
1,096.57	Teaching Staff— Salary & Allowances ...	4,262.09	
	Non-Teaching Staff— Salary & Allowances ...	4,237.74	
33.55	Duptry & Peon— Salary & Allowances ..	1,314.20	
	Provident Fund Contribution ...	36.53	9,850.56
	,, **Department of Comparative Literature :**		
	Research Fellow ...	3,232.76	
	Publication of Research Work...	1,613.85	4,846.61
1,130.12			Rs. 14,697.17

UNIVERSITY

EDUCATION & RESEARCH

Year Ended 31st March, 1961

Previous Year	INCOME	Rs. nP.	Rs. nP.
	By Recurring Grant :— University Grants' Commission :		
2,755.00	For Staff & Maintenance ...		7,505.00
	,, Excess of Expenditure over Income carried to Summary of Income & Expenditure		
2,762.03	Account ...		5,613.85
5,517.03			13,118.85

RESEARCH IN HUMANITIES & SOCIAL SCIENCES

year ended 31st March 1961

		Rs. nP.	Rs. nP.
	By Recurring Grant :— University Grants' Commission :		
	For Staff & Maintenance ...		8,000.00
	,, Excess of Expenditure over Income carried to Summary of Income & Expenditure		
1,130.12	Account ...		6,697.17
1,130.12			14,697.17

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR

Satatement of Expenditure out of Non-Recurring Grant Received from Govt. of India

Purpose of Grant	Total Grant received upto 31st March 1961	
	Govt. of India & University Grants Commission	Govt. of West Bengal
1. Engineering & Technology	Rs. nP.	Rs. nP.
(a) Purchase of Equipment for Development of Research in Chemical Engineering	20,000.00	8,992.00
(b) Purchase of Equipment for Civil Engineering ...	2,15,000.00	1,07,500.00
(c) Purchase of Equipment for expansion of Training Capacity of the Degree Courses in Engineering ...	4,19,832.00	Nil
(d) Books for Civil Engineering ...	16,667.00	8,333.00
(e) Building for additional accommodation for existing Degree Courses in Engineering ...	3,30,000.00	1,65,000.00
(f) Building for Civil Engineering	4,00,000.00	2,00,000.00
(g) Building for expansion of Training Capacity of the Degree Course in Engineering :	9,04,500.00	Nil
(h) Purchase of Furniture for Civil Engineering ...	23,333.00	11,667.00
(i) Major Repair of Work-Shop ...	50,000.00	25,000.00
(j) Extension to Chemical Engineering Building (For Departmental Library)	Nil	Nil
(k) Gas Plant & Shed ...	Nil	18,696.00
(l) Boiler Shed for Chemical Engineering	Nil	10,713.14
(m) Equipment for Overseer Course (Since abolished)	Nil	183.89
(n) Equipment for Fermentation Technology (Grant paid by Volkart Foundation) ...	Nil	35,600.00
(o) Equipment for Post Graduate Course in Food Technology ..	15,000.00	Nil
Carried Over ...	23,94,332.00	5,91,685.03

UNIVERSITY

University Grants Commission & Govt. of West Bengal Upto 31st March 1961

Total	Total Expenditure upto 31st March 1961			Balance as on 31st March, 1961.
	Progressive total expenditure upto 31st March, 1960.	Actual Expenditure during 1960-61	Progressive total expenditure upto 31st March'61	
Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.
28,992.00	24,821.39	2,092.50	26,913.89	2,078.11
3,22,500.00	2,26,767.60	1,07,040.88	3,33,808.48	*—11,308.48*
4,19,832.00	3,16,254.81	1,38,803.49	4,55,058.30	*—35,226.30*
25,000.00	22,007.27	899.74	22,907.01	2,092.99
4,95,000.00	7,65,247.17	1,70,846.89	9,36,094.06	1,58,905.94
6,00,000.00				
9,04,500.00	8,57,461.89	*—43,472.92*	8,13,988.97	90,511.03
35,000.00	35,207.34	Nil	35,207.34	*—207.34*
75,000.00	73,196.74	12,847.93	86,044.67	*—11,044.67*
Nil	5,576.53	1,709.83	7,286.36	*—7,286.36*
18,696.00	12,539.00	5,416.25	17,955.25	740.75
10,713.14	2,430.11	7,924.02	10,354.13	359.01
183.89	Nil	Nil	Nil	183.89
35,600.00	34,895.48	704.52	35,600.00	Nil
15,000.00	1,102.50	19,170.55	20,273.05	*—5,273.05*
29,86,017.03	23,77,507.83	4,23,983.68	28,01,491.51	1,84,525.52

JADAVPUR

Statement of Expenditure out of Non-Recurring Grant Received from Govt. of India

Purpose of Grant	Total Grant received upto 31st March 1961.	
	Govt. of India & University Grants Commission	Govt. of West Bengal.
	Rs. nP.	Rs. nP.
Brought Forward ...	23,94,532.00	5,91,685.03
1. Engineering & Technology—(*Contd.*)		
(p) Furniture for Post Graduate Course in Food Technology : ...	10,000.00	Nil
(q) Rehabilitation of Equipment for College of Engineering & Technology...	1,00,000.00	Nil
(r) Building for Food Technology ...	Nil	30,000.00
2. Scientific Education & Research		
(a) Equipment for Development of Research :		
(1) Physics ...	1,39,667.00	32,500 00
(2) Chemistry ...	65,000.00	32,500.00
(3) Geological Sciences ...	25,000.00	Nil
(b) Equipment for Development of Post Graduate Course :		
(1) Physics ...	80,000.00	40,000.00
(2) Chemistry ...	80,000.00	40,000.00
(3) Geological Sciences ...	53,332.00	26,666.00
(4) Mathematics ...	3,334.00	1,666.00
(c) Books & Journals on Scientific & Technical Subject : ..	95,000.00	Nil
(d) Equipment for Fundamental Research to Individual Workers ...	67,999.85	Nil
(e) Library Books for Post Graduate Development in Science ..	1,00,000.00	Nil
(f) Equipment for College of Arts & Science ...	Nil	3,25,000.00
(g) Furniture for College of Arts & Science ...	Nil	2,42,399.00
(h) Fans for College of Arts & Science ..	Nil	16,840.00
(i) Building for Post Graduate Science ...	3,25,000.00	1,46,500.00
(j) Extension of the College of Arts & Science ...	Nil	Nil
Carried over ...	35,38,664.85	15,25,756.03

UNIVERSITY

University Grants Commission & Govt. of West Bengal upto 31st March 1961

Total	Total Expenditure upto 31st March 1961			Balance as on 31st March, 1961.
	Progressive total expenditure upto 31st March 1960.	Actual Expenditure during 1960-61	Progressive Total expenditure upto 31st March 1961.	
Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.
29,86,017.03	23,77,507.83	4,23,983.68	28,01,491.51	1,84,525.52
10,000.00	5,468.99	3,881.90	9,350.89	649.11
1,00,000.00	Nil	947.10	947.10	99,052.90
30,000.00	Nil	41,718.86	41,718.86	*—11,718.86*
1,72,167.00	91,931.20	49,489.16	1,41,420.36	30,746.64
97,500.00	98,338.16	Nil	98,338.16	*—838.16*
25,000.00	Nil	18,849.08	18,849.08	6,150.92
1,20,000.00	99,773.26	17,752.49	1,17,525.75	2,474.25
1,20,000.00	70,504.39	53,880.73	1,24,385.12	*—4,385.12*
79,998.00	31,612.04	41,790.89	73,402.93	6,595.07
5,000.00	1,464.75	Nil	1,464.75	3,535.25
95,000.00	71,292.69	9,842.27	81,134.96	13,865.04
67,999.85	29,644.35	37,661.32	67,305.67	694.18
1,00,000.00	41,184.89	35,130.72	76,315.61	23,684.39
3,25,000.00	2,90,081.55	749 00	2,90,830.55	34,169.45
2,42,399.00	1,63,865.34	32,609.52	1,96,474.86	45,924.14
16,840.00	14,891.15	1,815.97	16,707.12	132.88
4,71,500.00	32,534.03	5,13,378.00	5,45,912.03	*—74,412.03*
Nil	46,379.06	15,923.18	62,302,24	*— 62,302.24*
50,64,420.88	34,66,473.68	12,99,403.87	47,65,877.55	2,98,543.33

JADAVPUR

Statemeut of Expenditure out of Non-Recurring Grant Received from Govt. of India,

Purpose of Grant	Total Grant received upto 31st March 1961.	
	Govt. of India & University Grants Commission	Govt. of West Bengal
	Rs. nP.	Rs. nP.
Brought Forward ...	35,38,664.85	15,25,756.03
3. Humanities & Social Sciences :		
(a) Library Building & Reading Room (Including Furniture & Equipment) ...	4,38,850.00	2,19,475.00
(b) Books & Journals on Humanities ...	1,20,000.00	Nil
(c) Books & Journals on Post Graduate Development for International Relations & Comparative Literature...	26,000.00	13,000.00
(d) Construction of New Hostels	1,20,000.00	1,00,000.00
(e) Construction of Students Health Centre	30,000.00	Nil
(f) University Staff Quarters ...	Nil	Nil
4. General :		
(a) Building for N. C. C. Staff Quarters ...	Nil	2,10,733,06
(b) Ceiling Fans for N. C. C. Office ...	Nil	7,350.00
(c) World University Service for Co-operative Canteen Project ...	Nil	2,900.00
	42,73,514.85	20,79,214.09

UNIVERSITY

University Grants Commission & Govt. of West Bengal Upto 31st March, 1961

Total	Total Expenditure upto 31st March, 1961.			Balance as on 31st March 1961.
	Progressive total expenditure upto 31st March 1960.	Actual expenditure during 1960-61.	Progressive Total expenditure upto 31st March 1961.	
Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.	Rs. nP.
50,64,420.88	34,66,473.68	12,99,403.87	47,65,877.55	2,98,543.33
6,58,325.00	6,13,398.81	48,315.42	6,61,714.23	*—3,389.23*
1,20,000.00	1,00,847.68	12,627.33	1,13,475.01	6,524.99
39,000.00	11,315.45	27,743.88	39,059.33	*—59.33*
2,20,000.00	79,522.23	2,18,385.67	2,97,907.90	*—77,907.90*
30,000.00	6,121.00	16,500.00	22,621.00	7,379.00
Nil	Nil	13,921.20	13,921.20	*—13,921.20*
2,10,733.06	2,06,263.77	Nil	2,06,263.77	4,469.29
7,350.00	Nil	7,350.00	7,350.00	Nil
2,900.00	Nil	Nil	Nil	2,900.00
63,52,728.94	44,83,942.62	16,44,247.37	61,28,189.99	2,24,538.95

GUPTA & MITRA
Chartered Accountants
Auditors.

JADAVPUR UNIVERSITY

Statement of Deficit Incurred After Utilisation of Govt. Grant on certain Schemes upto 31st March 1961.

Non-Recurring

Purpose of Grant		Deficit
		Rs. nP.
1. Purchase of Equipment for Existing Degree Courses in Engineering ...		52,042.27
2. Purchase of Equipment for Post Graduate Course in Engineering Geology ...		283.74
3. Building & Furniture for Existing Degree Courses in Engineering ...		6,85,258.23
4. Building for College of Arts & Science ...		1,00,116.28
5. Construction of Building & Purchase of Land for Hostel ...		53,295.14
6. Recreation Hall cum Auditorium .		41,084.87
7. Equipment for Chemical Engineering ...		709.89
		9,32,790.42
Less Ad hoc Grant received to wipe off the deficit upto 31. 3, 59.		
(i) Govt. of India	2,82,400.00	
(ii) Govt. of West Bengal	5,55,194.00	8,37,594.00
		Rs. 95,196.42

Examined the above figures from the Books and found the same in accordance therewith. Subject to our separate report of even date, certified that the expenditures have been incurred for the purpose for which the Grants were sanctioned and that otherwise the terms and conditions mentioned in the sanction have been fulfilled.

Dated, Calcutta,
The 29th September 1961,
P-14, Mission Row Extension,
Calcutta.

GUPTA & MITRA
Chartered Accountants
Auditors

JADAVPUR UNIVERSITY LIBRARY

JADAVPUR UNIVERSITY

SUBSIDIARY EAR-MARKED PRIZE & SCHOLARSHIP FUNDS

As at 31st March, 1961

(A) DWIJENDRA MEMORIAL SCHOLARSHIP FUND

To Expenses during the year	Rs. 278.75	By Balance (as per last a/c)	Rs. 50,000.00
To Balance carried to balance sheet	50,000.00	By Interest on Investment	278.75
	50,278.75		50,278.75

(B) MANILAL CHATTERJEE & OTHERS STIPEND FUND

To Expenses during the year	Rs. 115.50	By Balance (as per last a/c)	Rs. 3,679.52
To Balance carried to balance sheet	3,683.90	By Interest on Investment	119.88
	3,799.40		3,799.40

(C) HIRANMOYEE DEVI SCHOLARSHIP FUND

To Expenses during the year	Rs. 45.00	By Balance (as per last a/c)	Rs. 135.00
To Balance carried to balance sheet	300.00	By Receipt during the year	210.00
	345.00		345.00

(D) BIRESWAR DAS GUPTA MEMORIAL FUND

To Expenses during the year	Rs. 90.00	By Balance (as per last a/c)	Rs. 2,784.75
To Balance carried to balance sheet	2,785.50	By Interest on Investment	90.75
	2,875.50		2,875.50

(E) GANGURAM VERMA MEMORIAL FUND

To Expenses during the year	Rs. 170.00	By Balance (as per last a/c)	Rs. 4,000.00
To Balance carried to balance sheet	4,000.00	By interest in loans and overdrafts	170.00
	4,170.00		4,170.00

JADAVPUR UNIVERSITY

SUBSIDIARY EAR-MARKED PRIZE & SCHOLARSHIP FUNDS (*Contd.*)

(F) GOPIKRISTO BOSE STIPEND FUND

To Expenses during the year	Rs.	77.68	By Balance (as per last a/c)	Rs.	1,951.00
To Balance carried to Balance sheet		1,906.42	By Interest in investment		33.10
		1,984.10			1,984.10

(G) SRISCHANDRA BIRPROTAP MEMORIAL FUND

To Balance carried to balance sheet	Rs.	221.97	By Balance (as per last a/c)	Rs.	208.59
			By Interest on investment	Rs.	13.38
		221.97			221.97

(H) KRISTOMOHAN BOSE STIPEND FUND

To Expenses during the year	Rs.	24.00	By Balance (as per last a/c)	Rs.	1,801.85
To Balance carried to balance sheet		1,849.73	By Interest on investment		71.88
		1,873.73			1,873.73

(I) ARUNKUMAR BANDOPADHYAY MEMORIAL FUND

To Balance carried to balance sheet	Rs.	2,000.00	By Balance (as per last a/c)	Rs.	2,000.00

(J) JATINDRA KRISHNA MEMORIAL FUND

To Balance carried to balance sheet	Rs.	834.86	By Balance (as per last a/c)	Rs.	799.24
			By Interest on investment		35.62
		834.86			834.86

(K) ASHOKE MEMORIAL PRIZE FUNDS

To Balance carried to balance sheet	Rs.	512.65	By Balance (as per last a/c)	Rs.	481.27
			By Interest on investment		31.38
		512.65			512.65

JADAVPUR UNIVERSITY

SUBSIDIARY EAR-MARKED PRIZE & SCHOLARSHIP FUNDS (*Contd.*)

(L) K. P. DAS GUPTA MEMORIAL FUND

To Balance carried to balance sheet	Rs.	515.00	By Balance (as per last a/c)	Rs.	500.00
			By Interest on investment		15.00
		515.00			515.00.

(M) SUDHAKAR BURMAN MEMORIAL FUND

To Balance carried to balance sheet	Rs.	801.00	By Balance (as per last a/c)	Rs.	801.00
		801.00			801.00

(N) PRAMATHANATH BOSE MEMORIAL FUND

To Balance carried to balance Sheet	Rs.	1,000.00	By Balance (as per last a/c)		1,000.00
		1,000.00			1,000.00

(O) SURENDRANATH NANDAN MEMORIAL SCHOLARSHIP FUND

To Balance carried to balance sheet	Rs.	5,000.00	By Balance (as per last a/c)	Rs.	5,000.00
		5,000.00			5,000.00

(P) SURENDRANATH GHOSH MEMORIAL FUND

To Balance carried to balance sheet	Rs.	26,885.76	By Balance (as per last a/c)	Rs.	25,824.62
			By Interest on investment		1,061.14
		26,885.76			26,885.76

(Q) SM. PUSPA ROY GOLD MEDAL FUND

To Balance carried to balance sheet	Rs.	4,322.75	By Balance (as per last a/c)	Rs.	4,001.00
			By Interest on investment		321.75
		4,322.75			4,322.75

(R) GANESH JANANI DEVI MEMORIAL FUND

To Balance carried to balance sheet	Rs.	501.00	By Balance (as per last a/c)	Rs.	501.00
		501.00			501.00

JADAVPUR UNIVERSITY

SUBSIDIARY EAR-MARKED PRIZE & SCHOLARSHIP FUNDS (*Contd.*)

(S) SATISH CHANDRA DE GOLD MEDAL FUND

To Balance carried to balance sheet	Rs.	4,166.00	By Balance (as per last a/c)	Rs.	4,000.00
			By Interest on investment		166.00
		4,166.00			4,166.00

(T) ANUSILAN SAMITY COMMEMORATION STIPEND FUND

To Expenses during the year	Rs.	360.00	By Balance (as per last a/c)	Rs.	15,000.00
To Balance carried to balance sheet		15,238.50	By Interest on investment		598.50
		15,598.50			15,598.50

(U) SARADA GOLD MEDAL FUND

To Balance carried to balance sheet	Rs.	3,000.00	By Balance (as per last a/c)	Rs.	3,000.00
		3,000.00			3,000.00

(V) ALOKE KUMAR SARKAR MEMORIAL FUND

To Balance carried to balance sheet	Rs.	300.00	By Balance (as per last a/c)	Rs.	250.00
			By Receipt during the year from Sri Bimala Kanta Sarkar		50.00
		300.00			300.00

(W) MARY K. DAS & TARAK NATH DAS FUND

To Balance carried to balance sheet	Rs.	1,171.25	By Balance (as per last a/c)	Rs.	1,171.25
		1,171.25			1,171.25

(X) JOGENDRA NATH DAS MEMORIAL FUND

To Balance carried to balance sheet	Rs.	2,080.00	By Mrs. Mrinmoyee Dutt as contribution to the fund during the year	Rs.	2,080.00
		2,080.00			2,080.00

NOT TO BE LENT OUT



Published by P. C. V. Mallik, Registrar, Jadavpur University,
P. O. Jadavpur University, Calcutta-32 and Printed at
Navana Printing Works Private Limited,
47, Ganesh Chunder Avenue, Cal-13