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Supervised by
JADAVPUR UNIVERSITY

Jadavpur University

ANNUAL REPORT

(FROM 1st APRIL, 1959 TO 31st MARCH, 1960)

NOT TO BE LENT OUT



JADAVPUR UNIVERSITY

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ANNUAL REPORT

1959-1960

The following is a report on the working of the University during the period from 1. 4. 59 to 31. 3. 60.

CONDOLENCE

The University condoled the death of Sri Haripada Bhowmick, a member of the University. The University also condoled the deaths of Sri Manmatha Kumar Chakravorty, Professor of Electrical Engineering and Sri Kunjalal Sengupta, Lecturer in Chemistry, who had served the College of Engineering & Technology for about 17 years and 40 years respectively.

MEMBERS OF THE UNIVERSITY

The University completed the first four years of its existence on the 23rd. of December, 1959. A list of members of the University as reconstituted after the completion of the first four years in terms of the Jadavpur University Act is given in *Appendix "A"*.

PRESIDENT

As provided in Section 6 (1) (a) of the Act, Dr. Bidhan Chandra Roy, B.A., M.D., D. Sc., M.R.C.P. (London), F.R.C.S. (Eng.), F.S.M.F. (Bengal) was selected President of the University for a fresh term of four years with effect from 24th. December, 1959.

RECTOR

Dr. Triguna Sen, Dr. Ing. (Munich), A.M.M.E. (B. Tech.), M.I.E. (Ind.) was appointed Rector of the University as per provision under section 7 of the Act for a fresh term of four years with effect from 17. 1. 1960.

TREASURER

Sri Sasanka Sekhar Bagchi, A.M.E.E., B.E.E., M.I.E. (Ind.) was appointed Honorary Treasurer of the University as per provision under section 8 of the Act for a fresh term of four years with effect from 24. 12. 1959.

DONATIONS

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

Master Joy, care Shri J. K. Gupta of M/s. Voltas Ltd., Calcutta, donated a sum of Rs. 300/- out of his savings. Shri D. Sengupta of M/s. Brooke Bond Ltd., donated a sum of Rs. 3,000/- for awarding a gold centred Medal in memory of his father late Sarada Sengupta.



Mrs. Kumudini Seal donated a sum of Rs. 2,500/- for the construction of a gymnasium in the University Hostel.

The Students Union of the University College of Engineering & Technology donated a sum of Rs. 1,000/- to the Students' Aid Fund.

BUILDINGS

Two Hostels at an approximate cost of Rs. 1,70,300/- each with an accommodation for 54 students in each Hostel were nearing completion. One Hostel would be for girls.

The new stores and office buildings of the N. C. C. were completed.

The premises of the Department of Chemical Engineering were considerably expanded. A new wing of 10,000 sq. ft. floor area to accommodate the Departmental Library and a seminar for Post-graduate students was completed.

The construction of the building for the University Health Centre was completed but could not be commissioned because of the lack of funds pending sanction by the State Government.

The construction of the 2nd. and 3rd. floors on the top of the Civil Engineering building to accommodate the department of Tele-Communication Engineering and the building for the Physics Laboratories and Mathematics class-rooms were completed during the period under report. By completing the construction of buildings, the University added some 50,000 sft. to its existing accommodation.

ADMINISTRATION

Some changes were made as to designation and personnel. The designation "Dean of the College" was changed to that of the "Principal of the University College" and the designation "Chairman of the Faculty" to that of "Dean of the Faculty".

Prof. Hem Chandra Guha, Head of the Department of Electrical Engineering, thus became the "Dean of the Faculty of Engineering and Technology", Dr. Bibhutibhusan Sen, Head of the Department of Mathematics, the "Dean of the Faculty of Science", and Shri Asim Kumar Datta, the Dean, College of Arts, the Principal of the University College of Arts, Professor Prafulla Kumar Guha was appointed the Dean, Faculty of Arts (with effect from 30. 3. 60) and Professor Dr. Anil Kumar Mazumdar, the Principal of the University College of Science.

The term of Shri Tarak Nath Bhattacharyya as Financial Adviser was further extended up to 31. 3. 60.

Prof. Gopal Chandra Sen was appointed Professor-in-Charge of Mechanical Engineering in addition to his duties as the Provost. Prof. Sachindra Nath Mukherjee was appointed Head of the Department of Chemistry.

Sri Debendra Nath Chakrabartty was appointed Controller of Examinations with retrospective effect from 1st. July, 1959.

Sri Satyendra Nath Khan was appointed Assistant Registrar with effect from 26th. October, 1959.

UNIVERSITY RULES

The Rules of the University framed under the Act and adopted in May 1956 were amended.

NEW PAY SCALES

On the recommendation of the University Grants Commission the University adopted the revised scales of pay for Readers and Lecturers in the Faculty of Engineering and Technology with retrospective effect from 1st. April 1956. The designation of "Assistant Professor" was changed to that of "Reader".

TEACHERS

There were 275 (including 6 Part-time and 17 Visiting) teachers on the Staff of the University of whom 267 were men and 8 women. There were 110 in the Faculty of Engineering, 87 in the Faculty of Science and 78 in the Faculty of Arts. The distribution among the different cadres and departments is given in *Appendix "B"*.

The following teachers were granted leave or extension thereof during the period under report for higher studies abroad :

Chemical Engineering :

Sri Aditya Prasad Sinha, Lecturer, was granted further extension of study leave for a period of one year with effect from 12.12.59 to 11.12.60 to continue his studies at the Institute of Chemical Engineering, Moscow.

Electrical Engineering :

Sri Manmatha Kumar Das, Lecturer, was granted further extension of study leave for a period of six months with effect from 4.4.59 to 3.10.60 to work for his doctorate degree in the University of Karlsruhe, West Germany.

Sri Gopal Chandra De, Lecturer, now on deputation in Germany with a fellowship from the German Democratic Republic was granted an extension of leave for another year with effect from 2.1.60 to complete his course.

Inorganic Chemistry :

Sri Jaygopal Sen Gupta, Lecturer, was granted study leave without pay for a period of one year with effect from 29.9.59 to join the Louisiana State University, U.S.A.

Organic Chemistry :

Dr. Amareshwar Chatterjee, Lecturer, was granted an extension of study leave for one year with effect from 1.8.59 to 31.7.60 for post-doctoral work in Harvard University, U.S.A.

Mathematics :

Sri Ramendra Kumar Bhattacharyya, Lecturer, was granted study leave without pay for one year with effect from 1.11.59 to 31.10.60 to join the Stanford University, U. S. A., on being awarded a fellowship.

History :

Sri Amitava Mukherjee, Lecturer, was granted leave on deputation for one year without pay with effect from 25.6.59 to join the University of Pennsylvania for post-graduate studies in History leading to the Master's degree.

Economics :

Sri Arun Kumar Datta, Lecturer, was granted study leave for one year on half pay from 24.7.59 to join the University of Rochester, U.S.A.

Sri Paramesh Roy, Lecturer, was granted leave without pay for one year with effect from 15.3.60 to join the Oxford University.

Comparative Literature :

Sri Naresh Chandra Guha, Reader, was granted study leave on half pay for one year with effect from 23.6.59 to join the North Western University, U.S.A.

English :

Sri Debabrata Mukherjee, Lecturer, was granted study leave for one year with effect from 9.9.59 to join the Exeter University, U.K.

International Relations :

Dr. Prithwish Chandra Chakravarti, Professor, was granted leave on deputation for a period of four months with effect from 1.1.60 to join the University of Indiana, Bloomington, U.S.A., as a Visiting Professor.

The following teachers were granted lien on their service during the period under report :

Geological Sciences :

Sri Kanailal Chakravorty, Lecturer, was granted lien on his service for a period of one year with effect from 1.7.59 to take up the Junior Research fellowship of the National Institute of Science in India.

Dr. Tarun Kumar Bhattacharyya, Lecturer, was granted an extension of lien on his service for a period of one year with effect from 18.6.59 to continue in the Department of Atomic Energy, New Delhi, as Senior Scientific officer (Petrology).

Chemical Engineering :

Prof. Dilip Kumar Datta, was granted lien on his post for a period of one year with effect from 1.12.59 to join the National Sugar Institute, Kanpur, as Chemical Engineer.

Chemical Engineering : (Contd.)

Dr. Bimalendu Ghosh, Professor, who had been on study leave for research work at the National Research Council, Canada, rejoined his post on 19. 6, 59.

Mechanical Engineering :

Sri Amiya Kumar Dey, Reader, who had been on leave for higher studies at the University of Illinois since 1. 9. 59 with a T. C. M. Scholarship, rejoined his post on 1st. September, 1959 after obtaining the Master's degree.

Organic Chemistry ;

Dr. Kalyanmoy Sen, Lecturer, joined the Department of Chemistry, University of Tennessee, U. S. A. as a Post-doctoral Research fellow, on being granted leave without pay for one year with effect from 8. 3. 60.

History :

Sri Ranjit Guha, Lecturer, joined the University of Manchester as an Assistant in the Faculty of Economics and Social studies on being granted leave without pay for one year with effect from 3. 11. 59.

The undermentioned teachers joined the University during the period under report on the dates indicated against each of them :

Mechanical Engineering :

Sri Abani Mohan Das	Lecturer	15.7.59
Sri Balaram Bose	"	3.8.59
Sri Nikhil Nath Roy	"	1.8.59
Sri Nirmalya Bhusan Sengupta	"	4.1.60
Sri Khagendra Nath Kundu	"	11.1.60
Sri Nripendra Kumar Das Talukdar	"	17.8.59

Electrical Engineering :

Sri Pranab Kumar Bandopadhyay	Lecturer	21.9.59
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Chemical Engineering :

Sri Jyotirmoy Sarkar	Reader	17.8.59
Sri Tarun Kumar Choudhury	Lecturer	28.9.59
Sri Anil Kumar Banerjee	Lecturer	1.9.59
Sri Birendra Nath Srimani	"	28.3.60
Sri Pratul Chandra Dutta	"	28.7.59

Inorganic Chemistry :

Sri Asim Bhusan Chatterjee	Lecturer	3.11.59
Sri Gurupada Banerjee	"	1.9.59
Sri Nirmalendu Nath Roy	Reader	7.9.59

Physics :

Sri Narendra Nath Gupta	Lecturer	12.8.59
Sri Dilip Sen	..	16.11.59
Sri Premtosh Syam	..	1.3.60

Geological Sciences :

Dr. Supriya Roy	Reader	15.7.59
Sri Arun Kumar Bhattacharyya	Lecturer	22.9.59

Mathematics :

Sri Biswanath Chakraborty	Lecturer	10.8.59
Sri Samir Ranjan Majumdar	..	29.9.59
Sri Bikash Ranjan Das	..	21.9.59
Sri Prafulla Chandra Dutta	Reader	3.11.59

History :

Sri Debaprasad Chaudhury	Lecturer	4.1.60
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International Relations :

Sri Tarun Chandra Bose	Lecturer	10.8.59
Dr. Werner Rehfeld	Part-time	1.11.59
Sri Kalyan Kumar Ghosh	Lecturer	15.1.60
Sri Benoy Bhusan Mukherjee	Part-time	16.1.60
Sri Gouripada Bhattacharjee	Lecturer	8.1.60
Sri Prosanta Kumar Guha	Research & Ref. Officer	16.1.60

Economics :

Dr. Ambica Ghosh	Lecturer	16.7.59
Sri Arjun Kumar Sengupta	..	18.11.59

Sanskrit :

Sri Nirmal Kanti Basu	Lecturer	18.11.59
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Bengali :

Sri Ganesh Charan Basu	Professor	1.4.59
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Comparative Literature :

Sri Sudhindra Nath Datta	Visiting Lecturer	3.11.59
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Foreign Language :

Sm. Larissa Sen	Part-time	11.11.59
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English :

Dr. Satyendra Nath Roy	Lecturer	1.7.59
Sri Harijiban Ghosh	..	14.9.59

Humanities :

Sm. Aparna Basu	Lecturer	3.11.59
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Resignation, Retirement and termination of service on expiry of the period of appointment.

Mechanical Engineering :

Sri Nikhil Nath Roy	Lecturer	Resigned on	18.	4.	60
Sri Sukhomoy Roy	"	"	1.	8.	59
Sri Ananga Mohan Chatterjee	"	Retired	30.	6.	59

Chemical Engineering :

Sri Gurupada Banerjee	Lecturer	Resigned on	1.	3.	60
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Physics :

Sri Mrinal Kanti Kar Gupta	Lecturer	"	1.	5.	59
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Geological Sciences :

Sri Swadesh Priya Sanyal	Lecturer	Resigned on	1.	7.	59
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International Relations :

Miss Chaya Bhattacharyya	Lecturer	Resigned on	2.	10.	59
Dr. Gottfried Fisher	Part-time.	on expiry of			
		term of			
		appointment	1.	10.	59
Sri Syamalendu Banerjee	Lecturer	Resigned on	1.	1.	60
Sri Subimal Kumar Mukherjee	Reader	Resigned on	1.	8.	59
Sri Timothy William Legatt	Lecturer	on expiry of the			
		term of appointment	14.	11.	59
Sri Surajit Sengupta	Visiting Lecturer	on			
		expiry of the term of			
		appointment	1.	1.	60

RE-APPOINTMENT

The undermentioned Teachers were re-appointed after retirement for a fresh term as indicated against each of them.

1. Sri Amiya Kumar Basu, Professor of Mechanical Engineering re-appointed for one year with effect from 1. 7. 59.
2. Sri Provat Kusum Ray, Asst. Professor of Chemical Engineering, re-appointed for one year with effect from 1. 7. 59.
3. Sri Jatindra Mohan Palit, Asst. Professor of Electrical Engineering, re-appointed for one year with effect from 1. 7. 59.

OTHER ACTIVITIES OF TEACHERS

English :

Professor Prafulla Kumar Guha, Head of the Department of English, Presided over the All India English Teachers' Conference at Baroda. Professor Guha also delivered a course of three Lectures on Shakespeare's comic spirit, Character and catastrophe in Shakespearian Tragedy and Modern Problem Plays at Srinagar, on an invitation from the University of Jammu and Kashmir.

Comparative Literature :

Professor Buddhadeva Bose, Head of the Department of Comparative Literature was appointed by the University Grants Commission to be a member of the working group to consider all aspects of the question relating to the change of medium of instruction from English to regional languages. He attended the first meeting of the group at New Delhi.

Bengali :

Sri Ajit Kumar Datta, Reader of Bengali was invited to represent Bengal in the national symposium of poets held in connection with the Republic Day Celebrations at New Delhi.

History :

Professor Susobhan Chandra Sarkar, Head of the Department of History, was appointed a member of the Regional Committee for the survey of Records. He represented the University at the last meeting of the Records Commission and of the Research and Publication Committee of the Commission held at New Delhi.

Economics :

Sri Probbhat Kumar Sarbadhikari, Reader of Economics, was invited to deliver a course of lectures on "Economic theory and its application to planning" at the Research Training School, Indian Statistical Institute.

Chemical Engineering :

Dr. Bimalendu Ghosh, Professor of Chemical Engineering, was elected Joint Secretary of the Indian Institute of Chemical Engineers. Professor Dr. Tuhin Kumar Roy, Head of the Department of Chemical Engineering was elected the Honorary Editor of the "Indian Chemical Engineers". He was also elected to serve on the All India Board of Technical Studies in Chemical Engineering and the Scientific Sub-Committee of the Executive Council of the Central Fuel Research Institute.

Geological Sciences :

Sri Bankim Chandra Mukherjee, Reader of Geological Sciences, was invited by the Indian Statistical Institute to deliver a course of lectures on Coal Petrology.

Food Technology :

Dr. Arabinda Nath Bose, Professor of Food Technology, attended the meetings of the undermentioned Research Committees :

- (a) State Fisheries Advisory Board ;
- (b) Working Party on Food Technology, Indian Council of Medical Research ;
- (c) State Agricultural Research Committee ; and
- (d) Scientific Sub-Committee of the Central Food Technological Research Institute.

Mechanical Engineering :

Sri Amiya Kumar Dey, Assistant Professor of Mechanical Engineering was elected a member of the American Society of Mechanical Engineers.

The undermentioned teachers added to their qualifications by obtaining Doctor of Science and Doctor of Philosophy (Calcutta University) during the period under report :

Physical Chemistry :

Dr. Mibir Nath Das, Reader,	D. Sc.
Sri Lochhu Pochali, Lecturer,	D. Phil.

Inorganic Chemistry :

Sri Asit Kumar Roy, Lecturer,	D. Phil.
Sri Rabindra Lal Datta, Lecturer,	D. Phil.

Organic Chemistry :

Sri Amalendu Banerjee, Lecturer,	D. Phil.
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Mathematics :

Sri Bimal Bhusan Chatterjee, Reader,	D. Phil.
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Philosophy :

Sri Pranab Kumar Sen, Lecturer,	D. Phil.
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FIRST Ph.D. OF THE UNIVERSITY

Sri Sisirkumar Sen Gupta had the distinction of being the first Ph. D. of the University. He worked under the supervision of Prof. Dr. Bidyut Kamal Bhattacharyya and his thesis on "Synthesis of Fused Ring System" was examined by Dr. D. H. R. Barton of Imperial College, London and Prof. E. E. Van Tamelen of the University of Wisconsin.

RESEARCH

During the period under report research work on various subjects and problems was carried on in the different departments of the University. Eleven new research schemes were sanctioned by the Council of Scientific and Industrial Research. The Chemical Engineering Department was chosen as one of the Extramural Centres of research by the Central Fuel Research Institute. The installations in the High Tension Laboratory of the Department of Electrical Engineering were completed and various industrial organisations in and around the city have been taking full advantage of the testing facilities of the High Tension Laboratory. Special mention may be made of the recent testing of a 2,000 KVA-66/NKV, 3-Phase transformer manufactured by Messrs. Hindusthan Electric Co. Ltd., Calcutta. Sri Dhurjati Prasad Mukherjee, the renowned Scholar and a former Professor at the Lucknow and Aligarh Universities was appointed to give advice on various research activities in the Departments of Comparative Literature, History and International Relations. A process for "Parboiling of Rice" which was developed at the Food Technology Laboratory of the University was demonstrated by the Ministry of Food and Agriculture, Government of India at the World Agricultural Fair, Delhi. A list of subjects and papers published during the period under report is given in *Appendix "C"*.

VISITING LECTURERS DURING THE SESSION 1959-60

	Names	No. of Lectures	Subjects
1.	Prof. Dr. S. K. Banerjee D. Sc., F. N. I.	30	Exploration of Geophysics
2.	Dr. M. Dutta, Chief Engineer, State Electricity Board, West Bengal	15	Hydroelectric Generation and installation ; Electricity- Tarriffs.
3.	Sri S. Dutta. B. Sc., Eng. of M/s. Dodsal (Private) Ltd.	15	High Voltage Technique.
4.	Dr. B. Sen, Chief Chemist, Titaghur Paper Mills, Titaghur	5	Paper Technology
5.	Sri R. B. Rao, M. Sc., F. R. S. A., F. C. A. Works Manager, Britannia Biscuit Co. Ltd. Calcutta	10	Bakery Technology
6.	Sri A. K. Mustafi, B. Sc., A. I. S. M., Chief Drilling Engineer, Kilburn & Co., Private Ltd.	15	Modern Drilling Practice.
7.	Prof. S. K. Bose, B. Sc., A. R. S. M., (Lond.) Ex-Professor of Mining and sometime Principal, Indian School of Mines and Applied Geology, Dhanbad	45	Mining Methods and Praticce.
8.	Sri A. K. Bhattacharji, Assessor. Calcutta Corporation	6	Valuation for Rating.
9.	Sri Priya Guha, Chief Architect, Calcutta Corporation	7	Architectural composition.
10.	Sri P. K. Sanyal, Managing Agents, Turner, Morrison & Co. Private Ltd., Calcutta	6	Long span Prestressed Con- crete roof.
11.	Sri Amitabha Guha, B. Sc. (Cal.), B. E. (Cal.), A. M. I., Struct. E. (Lond.) Engineer, Simplex Cement Piles (India) Ltd.	10	Waterways, Harbours & Docks.
12.	Sri D. A. Osborne, Chief Engineer, Mackintosh Burn (P.) Ltd. Calcutta	1	Constructional Technique.
13.	Sri Subir Das Gupta, Executive Engineer, Public Helth Engg. Dept. Government of West Bengal	16	Public Health Engineering.

COURSES OF STUDY

With the session 1959-60 the University may be said to have completed the main structure of the courses of study in the different Faculties.

The syllabus for Post-graduate course in Chemistry was adopted.

The syllabi for Post-graduate and under-graduate courses in Comparative Literature were modified and adopted.

The Post-graduate course in Food Technology of one year's duration leading to the degree of Master of Technology (M. Tech.) was started.

The most noteworthy development was the introduction of Part-time Degree courses of 4 years' duration in Civil, Mechanical and Electrical Engineering leading to the degrees of Bachelor of Civil Engineering (B. C. E.), Bachelor of Mechanical Engineering (B. M. E.) and Bachelor of Electrical Engineering (B. E. E.). Jadavpur is the first Indian University to introduce this course. During the period, Certificate and Diploma Courses in French, German and Russian Languages were instituted.

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	359	Boys - 77 Girls - 3	80
Arts	43	Boys - 11 Girls - 18	29
Degree :			
Arts	42	Boys - 7 Girls - 5	12
Science	252	Boys - 38 Girls - 2	40
Engineering	12,245	Boys - 363 Girls - 7	370
Post-graduate :			
Arts	1,108	Boys - 109 Girls - 94	203
Science	394	Boys - 35 Girls - 3	38
Engineering	21	Boys - 17 Girls - -	17

Subjectwise breakup is given in *Appendix "D"*.

RECOGNITION

The University recognised the degrees and examinations of other Universities and bodies as follows :—

1. The School Final Examination (Science side) conducted by the School Final Examination Board (Science side), Government of West Bengal, was recognised by this University as equivalent of the School Final Examination of the Board of Secondary Education, West Bengal.

2. The German Abitur Examination was considered as adequate qualification for entry to the degree standard of this University.

3. The Pre-University examinations of the University of Rajasthan were recognised as equivalent of the Preparatory examinations of this University on a reciprocal basis.

4. The Preparatory Examinations in Arts and Science of the Maharaja Sayajirao University of Baroda were recognised as the equivalent of the Preparatory Examination of this University on a reciprocal basis.

5. The Preparatory Examinations of Thailand were recognised as the equivalent of the Preparatory Examinations of this University.

6. The following degrees and examinations of the Marathawada University were recognised by this University as qualifying students :—

I. For admission to the degree courses in Arts and Science.

(i) Pre-University examinations in Humanities and Science.

(ii) Intermediate examinations in Arts and Science.

II. For admission to the Post-graduate courses :—

(i) Bachelor of Arts and Science examinations (Old 4 Year degree courses).

(ii) Bachelor of Arts and Science Second Year examinations only 3 Year Honours Degree courses as equivalent of B.A. and B.Sc. Part-I examinations of this University.

7. B.A., B.Sc., M.A. and M.Sc. examinations of the Calcutta University were recognised as equivalent of the corresponding examinations of this University on a reciprocal basis.

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

Arts	...	18 (12 men and 6 women)
Science	...	18 (16 men and 2 women)
Engineering & Technology	...	1 (man)
Total		<u>37</u>

EXAMINATIONS

An important change was made in the system of examination in the Engineering Degree Courses. It was provided that of the maximum marks in each theoretical paper at the different University examinations 70% will be allotted to the University Examinations and 30% to the Periodical examinations. Modification was also made in the B.A. and B.Sc. Part I examinations by providing that students who failed in not more than one subject would be promoted to the third year class but would not be admitted to the B.A. and B.Sc. degrees unless they have passed in that subject at the Supplementary examination.

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

		Pre-University		Bachelor's Degree		Master's Degree		Total
		Boys	Girls	Boys	Girls	Boys	Girls	
Arts	{ Appeared	15	19	4	3	64	49	154
	{ Passed	13	18	4	3	52	39	129
Science	{ Appeared	97	Nil	47	4	35	1	184
	{ Passed	82	Nil	36	4	25	1	148
Engineering & Technology	{ Appeared	—	—	231	Nil	5	Nil	236
	{ Passed	—	—	227	Nil	5	Nil	232

Post-Graduate

Engineering—3 students were placed in the First Class and 2 in the Second Class.

Arts—10 students were placed in the First Class and 81 in the Second Class.

Science—14 students were placed in the First Class and 12 students in the Second Class.

Degree

Engineering—17 students passed in the First Class with Honours. 138 students were placed in the First Class and 30 in the Second Class. At the Supplementary examination in all 45 students appeared and 42 passed. 19 students were placed in the First Class and 23 in the Second Class.

Arts—7 students were placed in the Second Class.

Science—16 students were placed in the First Class and 24 in the Second Class.

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

STUDENTS ON ROLLS

The number of students in the University rose from 2140 (1894 boys and 246 girls) to 2626 (2311 boys and 315 girls). Of these the Facultywise breakup was as follows :

	Pre-University		Undergraduate		Post-graduate		Doctorate	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Arts ...	12	19	59	57	213	192	12	6
Science ...	83	2	255	9	109	10	16	2
Engineering & Technology ...	—	—	1,514	18	37	Nil	1	Nil

The distribution among the different courses and classes is given in *Appendix "G"*.

Foreign students :

There were 15 foreign students in the University. The Facultywise distribution is shown below :

	Faculty of Engineering & Technology	Faculty of Arts	Faculty of Science	Total
Nepal	7	×	×	7
Burma	1	1	×	2
Ceylon	×	5	×	5
Pakistan	1	×	×	1
	<u>9</u>	<u>6</u>	<u>×</u>	<u>15</u>

NATIONAL CADET CORPS

The N. C. C. Units of the University held a combined social service and Cadre Camp on the University Campus for two weeks. The activities included, amongst other things :

- (i) Construction and repair of roads
- (ii) Construction of a miniature range
- (iii) Clearing and levelling the area around the N. C. C. Quarters.

At the close of the Camp, prizes were distributed before a large and distinguished gathering. Sri Bhupati Majumdar, Minister-in-charge of Commerce and Industries, Government of West Bengal, presided and Dr. D. M. Sen, Secretary, Education Department, Government of West Bengal graced the occasion as the Guest-in-Chief.

Air Marshal Subrata Mukherjee, Chief of the Air-Staff, paid a visit to the University and addressed the Cadets of all the Units.

SPORTS

During the period under report, the University participated in the following Inter-University Tournaments :

1. Football
2. Cricket
3. Hockey
4. Lawn Tennis
5. Rowing
6. Swimming

The University Cricket Team beat Bihar and Gauhati Universities and lost to Calcutta in the Inter-University Cricket Tournament.

The Swimming Team came out third in the Inter-University Swimming Competition.

STUDENTS' ACTIVITIES

(a) Sri Jayanta Kumar Sen of 4th. year Mechanical Engineering Class was awarded a prize for standing third at the All India Debate Competition held at the B. E. College.

(b) Sri Nisith Singh of the 2nd. year Mechanical Engineering Class own the First Prize in Glider, Payload and Scale Solid, and the Second Prize in open duration and Concourse d' elegance at the All India Model Aircraft Rally at Barrackpore.

(c) Sri G. S. Sokhy of the 4th. year Electrical Engineering class was declared University Blue of the session 1959-60. He represented the University in Football, Hockey and Lawn Tennis.

(d) The Annual Social Service Camp of the students of the University was held at Benebhau near Kalikapur in the flood devastated area some 9 miles from the University. In addition to a contribution of Rs. 1000/- from the Chief Minister's Relief Fund, clothes and food grains were collected and funds raised from the students, teachers and staff of this University. About 100 students in rotation participated in the Camp which lasted for one month. The Director of Youth Welfare was in charge of the Camp.

INDUSTRIAL & TECHNICAL EXHIBITION

The Eighth Annual Industrial and Technical Exhibition was formally opened on 26th. December by Sri Bhupati Mazumdar, Minister, Commerce & Industries, Government of West Bengal. The exhibition consisted mainly of models, some of which were working ones, made by the students especially for the occasion. It is worth mentioning in this connection that a commercial

firm became interested in the model of "Automatic Change Counter" which was designed by the students of Electrical Engineering Class, and they offered to obtain a manufacturing licence for the model.

CENTRE FOR STUDIES IN INDIAN HERITAGE & CULTURE

A centre for study of the different aspects of the Indian Culture was started under the name "Centre for Studies in Indian Heritage and Culture" with Prof. P. K. Guha, Dean, Faculty of Arts as President and Sri Amiya Dey, Lecturer in Comparative Literature as Secretary. The centre received a donation of about 150 books and a grant of Rs. 600/- for books and periodicals from the Bengal Branch of the Gandhi Smarak Nidhi.

WORLD UNIVERSITY SERVICE

The Jadavpur University Unit of World University Service formed in 1959 with Dr. T. Sen, Rector, as Chairman was formally approved by the Indian National Committee as a constituent Unit. The National Committee sent Rs. 900/- for help to students who had suffered in the last floods. A grant of Rs. 2701/- for the students' canteen was also approved by the National Committee.

PLAN INFORMATION CENTRE

Jadavpur was one of the six Universities selected by the Ministry of Information & Broadcasting for the establishment of a Plan Information Centre. The Centre is located in the Library Building.

STATISTICAL UNIT

A new section in the University office, the Statistical Unit, was set up during the period under report with a Statistical Officer in charge. The Unit sponsored by the University Grants Commission, has the function of collecting statistical data from the different departments of the University and to compile them for the use of the University and for sending statistical returns required by the Central and State Governments, the University Grants Commission and other bodies.

LIBRARY

During the period under report 14,250 volumes of books and 5,310 journals (loose copies), pamphlets, reprints and other serial material were added bringing the total collection to 95,000. Valuable gifts accounted for about 6,000 volumes of rare and out of print materials, most of which was donated by Maharaj Kumar S. C. Nandy of Cossimbazar (4,952 volumes). 73,545 volumes of books & journals were issued for home use and 51,719 volumes were issued for reference and reading room use during this period. Valuable book donations were also received from various institutions and persons as given on the next page :

1. Lok Sabha Secretariat	25 volumes
2. Ministry of Education, Govt. of India	43 "
3. Ministry of Scientific Research and Cultural Affairs, Govt. of India	8 ..
4. Embassy of U. S. S. R., New Delhi	53 ..
5. Planning Commission, Govt. of India	10 ..
6. Library Congress, Washington, U. S. A.	15 ..
7. British Information Service, Calcutta	14 ..
8. British Council, Calcutta	3 ..
9. Chief of CARE in India, Delhi (under Wheat Loan Educational Exchange Programme)	263 ..
10. U. S. I. S., Calcutta	37 ..
11. Sri Dwijendra Nath Ghosh, Calcutta	57 ..
12. Consul General of the U. S. S. R., Calcutta	6 ..
13. Ministry of External Affairs, Govt. of India	4 ..
14. Navajiban Trust, Ahmedabad	4 ..
15. Central Water & Power Commission, Govt. of India	3 ..
16. Embassy of Czechoslovak Republic, New Delhi	15 ..
17. Maharaj Kumar S. C. Nandy of Cossimbazar	4952 ..
18. Mrs. Surama Ghosh, Calcutta	51 ..
19. Royal Netherlands Embassy, New Delhi	4 ..
20. Sri Arun Kumar Roy Chaudhury, Calcutta	345 ..
21. Miss Anu Bandopadhyaya, Calcutta	779 ..
22. Indian Statistical Institute, Calcutta	4 ..
23. Reserve Bank of India, Eco. Dept., Bombay	7 ..
24. Indian Institute of Public Administration, New Delhi	3 ..
25. Trustees of Parsi Panchayat Funds & Property, Bombay	19 ..
26. Chief Engineer, Hirakud Dam Project	5 ..
TOTAL ...	<u>6829 volumes</u>

OFFICE & OTHER STAFF :

The University had during the period a staff of 209 in the office, laboratories, library and workshop. Darwans, malis, bearers and sweepers numbered 182. The different categories of staff were as follows :

LIBRARY & OFFICE STAFF :

Chief Librarian	...	1
Librarian	...	1

Head Assistant	...	1
Store Keeper	...	1
Cashier	...	1
Stenographer	...	1
Steno-typist	...	1
Cataloguer	...	4
Junior Assistant	...	41
Supervisor	...	3
Senior Assistant	...	10

CONVOCATION :

The Annual Convocation was held on 27th. December. The Convocation address was delivered by Dr. Rajendra Prasad, the President of India.

In all 399 students received their degrees, details of which are as follows :

Doctor of Philosophy in Science (Ph.D.)	...	1
Master of Chemical Engineering (M.Ch. E.)	...	3
Master of Mechanical Engineering (M.M.E.)	...	3
Master of Science (M. Sc.)	...	27
Master of Arts (M.A.)	...	91
Bachelor of Science (B. Sc.)	...	40
Bachelor of Arts (B.A.)	...	7
Bachelor of Chemical Engineering (B. Ch. E.)	...	55
Bachelor of Electrical Engineering (B.E.E., Power)	...	54
Bachelor of Electrical Engineering (B.E.E. Com.)	...	2
Bachelor of Mechanical Engineering (B.M.E.)	...	116
TOTAL :		399

A list of Medals awarded during the Convocation to the students for outstanding results in the Examinations is given in *Appendix "F"*

DEVELOPMENT & EXPANSION :

During the year under report the University submitted schemes for the development of post-graduate studies and research in all the three Faculties. The University Grants Commission sent out two Visiting Committees on the recommendations of which grants totalling Rs. 18,80,000/- were sanctioned by the University Grants Commission for the construction of buildings of the total plinth area of 1,00,000 sft. for the development of the existing post-graduate courses in Arts & Science. During the same period the Commission sanctioned Rs. 65,000/- for the construction of building of the plinth area of 4,250 sft. for the new post-graduate course in Food Technology. The sum of Rs. 2,00,000/- was sanctioned for books for the development of post-graduate courses in Inter-

national Relations, Comparative Literature, Physics, Chemistry, Mathematics & Geological Sciences and the sum of Rs. 5,37,000/- was granted for equipment and furniture for these courses. Necessary financial assistance, of a recurring nature, was also received from the Commission for starting the Part-time Degree Courses in Engineering.

BODIES OF THE UNIVERSITY

The names of members of the different bodies of the University are given in *Appendix 'H'*.

DISTINGUISHED VISITORS :

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

- | | | |
|---------------------------|-----|---|
| 1. Prof. Neils Bohr | ... | (Nobel Laureate, Denmark) |
| 2. Dr. James Greig | ... | (British Association for the advancement of Science) |
| 3. Sir Walter Puckey | ... | (U. K.) |
| 4. Prof. A. L. Basham | ... | (School of Oriental & Slavonic Studies, London University) |
| 5. Prof. W. H. Sebrell | ... | (Director, Institute of Protein Sciences and adviser to U.N.I.C.E.F.) |
| 6. Dr. F. W. Cooper | ... | (Education Officer, Institution of Productive Engineers, U. K.) |
| 7. Prof. P. Butter | ... | (Professor of English, Belfast University). |
| 8. Prof. J. P. Miller | ... | (Head of the Department of Economics, Yale University). |
| 9. Prof. R. E. Peck | ... | (Illinois Institute of Tech.) |
| 10. Dr. Stephen North Hay | ... | (Asstt. Professor, Chicago University). |
| 11. Dr. W. B. Reddaway | ... | (Director, Department of Applied Economics, Cambridge University). |
| 12. Mr. Pifor Sekelj | ... | (Yugoslavia), |

Extension work by the University Teachers :

Under the University Grants Commission Scheme, a series of extension lectures on different subjects of general interest was delivered by the teachers of the University during the period under report. Great co-operation was received from the Ramkrishna Institute of Culture, Cultural Freedom Library, Vivek Sangha of Viveknagar, Purva Jadavpur Sanskritik Sangha of Santoshpur and Lake View High School, Calcutta.

Miscellaneous :

The total number of academic working days was 205.

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

University	...	...	8
Academic Council	...	...	7
Administrative Council	...	...	8
Finance Council	...	...	1

FINANCES

The following non-recurring grants were received by the University during the year 1959-60 :—

A.

I. University Grants Commission :

		Rs.
(a)	Equipment for Civil Engg. ...	75,000
(b)	Equipment for expansion of training capacity of existing degree course in Engg. ...	1,00,000
(c)	Construction of Library Building and Reading Room ...	30,000
(d)	Building for expansion of training capacity of existing degree course in Engg. ...	4,92,000
(e)	Books on Scientific and technical subjects ...	30,000
(f)	Books and Journals on Humanities ...	15,000
(g)	Equipment for P. G. Development and Research in Physics ...	40,000
(h)	Equipment for P. G. Development and Research in Chemistry ...	40,000
(i)	Equipment for P. G. Development and Research in Geological Sciences ...	26,666
(j)	Equipment for P. G. Development Research in Mathematics ...	3,334
(k)	Library books for P. G. Development and Research in Science ...	50,000
(l)	Construction of students' Health Centre ...	15,000
(m)	Library books for P. G. Development and Research in International Relations and Comparative Literature ...	10,000
		<u>9,27,000</u>

II. Government of India

(a)	Equipment for fundamental Research	<u>18,470</u>
-----	------------------------------------	---------------

III. Government of West Bengal

(a) Equipment for Civil Engg. ...	12,856
(b) Construction of Library Building & Reading Room	15,000
(c) Boiler shed for Chemical Engg. ...	14,713
(d) Equipment for P. G. Development & Research in Physics ...	20,000
(e) Equipment for P. G. Development & Research in Chemistry ...	20,000
(f) Major repair of workshop ...	25,000
(g) Furniture for College of Arts and Science ...	1,29,899
(h) Fans for College of Arts & Science ...	9,140
	2,46,608

Non-recurring expenditure during the year :

Building construction ...	5,20,110
Equipment ...	4,84,413
Furniture & Fixtures ...	1,10,007
Books & Journals ...	81,014
	11,95,544

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

1. University Grants Commission

	Rs.
(a) Building programme of India International Centre ...	20,000
(b) Maintenance of existing degree course in Engineering ...	5,98,000
(c) Revision of pay scales of teachers ...	65,966
(d) Part-time Degree course ...	8,200
(e) Expansion of training capacity of existing degree course in Engg. ...	1,33,137
(f) Maintenance of Civil Engg. ...	26,418
(g) Maintenance of P. G. Food Technology ...	18,881
	8,70,602

2. Government of India

(a) Plan Information Centre ...	676
---------------------------------	-----

3. Govt. of West Bengal

(a) Maintenance of University ...	8,50,000
(b) Building programme of India International Centre	10,000

(c) Extension work of University teachers	...	3,290
(d) Setting of Statistical Unit	...	5,000
(e) Revision of pay scales of teachers	...	3,996
(f) Maintenance of Chemical Engg. Dept.	...	1,70,000
(g) Maintenance of College of Arts & Science	...	30,000
(h) Expansion of Training capacity of existing degree course in Engg.	...	1,33,137
(i) Maintenance of Civil Engg.	...	48,000
(j) Subvention for Dearness allowance	...	80,704
		<u>13,34,127</u>

Overall financial position of the various departments of the University :

Revenue Income	...	Rs. 31,69,974
Revenue Expenditure	...	Rs. 35,69,319

C. Research Activities

Revenue Income :

(a) C. S. I. E.	...	82,657
(b) I. C. A. R.	...	8,193
(c) Govt. of India	...	18,429
(d) Govt. of West Bengal	...	9,400
(e) University Grants Commission	...	2,755
(f) Others	...	16,094
		<u>1,37,528</u>
Total Revenue Expenditure	...	<u>1,83,020</u>

**MEMBERS OF THE
JADAVPUR UNIVERSITY**

1959-60

- President —Dr. Bidhan Chandra Roy, M. D., D. Sc.,
M. R. C. P. (Lond.), F. R. C. S. (Eng.)
- Rector —Dr. Triguna Sen, Dr. Ing. (Munich), A. M. M. E.
(B. Tech.), A. M. I. Mech. E. (Lond.), M. I. E.
(Ind.),
- Treasurer —Sri Sasanka Sekhar Bagchi, B.E.E., M.I.E. (Ind.)
- Dean, Faculty of Engineering & Technology —Professor Hem Chandra Guha, B. Sc. (Edin.),
Mem. A.I.E.E. (U.S.A.), M.I.E.E. (Lond.), M.I.E.
(Ind.)
- Dean, Faculty of Science —Professor Bibhuti Bhusan Sen, D. Sc., F.N.I.
- Dean, Faculty of Arts —Professor Prafulla Kumar Guha, M.A. (Cal.)
(appointed Dean with effect from 30.3.60).
- Principal, University College of Engineering & Technology —Dr. Triguna Sen, Dr. Ing. (Munich), A.M.M.E.
(B. Tech.), A.M.I. Mech. E. (Lond.), M.I.E. (Ind.)
- Principal, University College of Arts —Sri Asim Kumar Datta, M.A. (Cal. et. Oxon),
Barrister-at-Law.
- Principal, University College of Science —Professor Anil Kumar Majumdar, D. Sc.
- President, Alumni Association, N. C. E., Bengal —Sri Bhupati Majumdar.
- Chairman, Institution of Engineers, Bengal Centre —Sri Narendra Nath Sen Gupta, M.I.E.E., M.I.E.
(Ind.)
- Mayor, Calcutta Corporation —Sri Bejoy Kumar Banerjee.
- Two elected Professors —
—Professor Bidyut Kamal Bhattacharyya, D. Sc.
(Organic Chemistry.)
—Professor Tuhin Kumar Roy, M. Sc. (Cal.), Sc. D.
(M.I.T.), M.A.I. Ch. E., A.M.I.I. Ch. E.
Head of the Deptt., Chemical Engineering.
- Two elected Teachers (other than Professors)
—Sri Bireswar Prasad Ghosh, B M.E., A.M.I.E.
(Ind.)
—Sri Rabindra Nath Bhattacharyya, M.A.

Two elected Registered Graduates—

- Sri Khagendra Mohan Chakraborty, B.E.E.,
A.M.I.E. (Ind.)
—Sri Dinendra Kumar Nandi, B.M.E., A.M.I.E. (Ind.).

Eight Members elected by the
National Council of Education—

- Sir Dharendra Nath Mitra, Kt., C.B.E.
Sri Ajendra Krishna Ghose, B.L., Attorney-at-Law.
Sri Prafulla Kanta Banerjee
Sri Rash Behari Dey, V.D.E. (Berlin), A.A.I.E.E.
Sri Sachindra Bhusan Dutt, B. Sc. (Cal), B. Ch. E., M.I.E.
Sri Himangsu Sekhar Sinha, B.E.E.
Sri Bhupendra Nath Banerjee, B.E.E., M.I.E. (Ind.).
Sri Sasanka Sekhar Bagchi, B.E.E., M.I.E. (Ind.).

Nominated by the Legal
Representative of the Late
Brojendra Kishore Roy
Choudhuri of Gouripur.

—Sri Birendra Kishore Roy Chowdhury, B.A.

Nominated by the Legal
Representatives of the Late
Maharaja Suryya Kanta
Acharyya Choudhury.

—Sri Snehangshu Kanta Acharyya,
Barrister-at-Law

Nominated by the Legal
Representatives of the
Late Raja Subodh Chandra
Mallik.

—Sri Sudeb Chandra Dutta, A.M.E.E.

Secretary, Ministry of
Education, Government of
India.

—Sri K. G. Saiyidain.

Joint Secretary,
Ministry of finance,
Government of India.

Secretary, Education
Department, Government
of West Bengal.

—Dr. Dharendra Mohan Sen, M.A., Ph.D. (Lond.)

Secretary, Department
of Finance, Government
of West Bengal.

—Sri Himadri Narayan Ray, I.C.S.

One Nominee of the All
India Council for Technical
Education

—Vacant

Teachers of Different cadres and Departments

(As on 31. 3. 60.)

Faculty of Arts

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

Language Class—1*

Faculty of Science

	Physics	Chemistry	Mathematics	Geological Sciences
Principal—1 †				
Professor	1	3	1	1
Reader	5	6	5	2
Lecturer	15	22	14	9+3*

Faculty of Engineering & Technology

	Mechanical Engg.	Electrical Engg.	Chemical Engg.	Civil Engg.	Tele. Com. Engg.	Engg. Economics	Food Technology
Principal—1	1	1	1	1	1		X
Professor-in-Charge	3+1*	3	2	1	1	1*	1
Professor	18	5	4	2	1	1	1
Reader	25	11+3*	5+2*	6+5*	3		1*
Lecturer	...	...	...	...	...	...	...

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

RESEARCH & PUBLICATIONS

MECHANICAL ENGINEERING

Research :

1. "Effect of Alternate stresses on the Mechanical Properties of "Metals" by Sri B. L. Das—work completed.
2. "Influence of Bonding Materials on Permeability and compressive strength of Mogra Sand" by Sri B. D. Banerjee—work completed.

Publications :

1. "Turbulent Boundary Layer over Heated and Unheated, Plane, Rough surfaces" by Dr. Benoyendra Chanda, Published as Technical Report by the Colorado State University for the United States Air Force (AFCRO, TN-58-428 ASIIA-AD 152599).
2. "Flanning Project & Production by Sri K. C. Chatterjee, Transactions, Institution of Engineers (India), December, 1959.
3. "Economy in Production" by Sri G. C. Sen, Transactions, Institution of Engineers (India) December, 1959.
4. "Engineering Economy and Utilisation of Personnel" by Sri M. Sen Gupta, Transactions, Institution of Engineers (India), December, 1959.
5. "Mechanics of Energy Dissipation in Hydraulic Structures" by Dr. Benoyendra Chanda, Transactions, Institution of Engineers (India), December, 1959.

ELECTRICAL ENGINEERING

Research :

- | | | |
|--|---|---|
| 1. Design of Voltage Stabilisers | } | The research schemes in progress in the Electrical Measurements Laboratory. |
| 2. Design of Harmonic Analysers | | |
| 3. "Eddy current effects in the solid rotor of a polyphase machine". | } | The work in progress in the Electrical Machine Laboratory. |
| | | |

Publications :

1. "Design of Transducers"—by Sri J. K. Choudhury and Sri S. K. Ghosh. Journal of Scientific & Industrial Research (India) September, 1959.
2. "Magnetic Measurements with the Bridged T. Network"—by Sri J. K. Choudhury and Sri P. C. Sen—Electronic and Radio Engineer, London, November, 1959.
3. "Magnetic Measurements at Power, Audio and Radio Frequencies"—by Sri J. K. Choudhury—Proceedings of Indian Science Congress, January, 1960.

CHEMICAL ENGINEERING

Research :

1. "The quantitative study of mass transfer kinetics in extraction of thorium and rare earths with organic solvents" (continued from previous year) under the Government of India Research Training Scheme—Sri S. N. Chatterjee.
2. "Production of elemental sulphur from natural sulphides" (continued from previous year) under the Government of India Research Training Scheme—Sri S. M. Ghosh.
3. "Low temperature oxidation characteristics of Indian coal" (continued from previous year) under the Government of India Research Training Scheme—Sri K. Samanta.
4. "Flow of non-Newtonian fluids" (continued from previous year) under the Government of India Research Training Scheme—Sri B. C. Par.
5. "Pressure leaching of copper ores with oxygen and ammonia" (continued from previous year) under the C. S. I. R. Scheme—Sri R. N. Bagchi.
6. "Design of Dust filter" under C. S. I. R. Scheme—Sri S. K. Guha.
7. "A study of submerged combustion" under C. S. I. R. Scheme—Sri N. Purakayastha.

Publications :

1. "A generalised correlation for dispersed phase Hold-up below loading point in packed countercurrent liquid-liquid extraction column"—Sri S. R. Ghosal, Sri S. N. Chatterjee & Sri D. K. Dutt—Trans. Ind. Inst. Chem. Eng. Vol. XI 23-30, 1958-59.
2. "Kinetics of catalytic Dehydration of Ethanol on Activated Alumina" Sri N. C. Roy and Sri N. K. Bose—Trans. Ind. Inst. Chem. Eng., Vol. XI, 1-10 (1958-59).
3. "Sinkversuche mit isometrischen Teilchen in Flussigkeiten" Sri K. C. Roy Choudhury & W. Fritz—Chemical Engg. Science, London, Vol. II, 92-98, 1959.
4. "Anaerobic Fermentation of Distillery waste by enriched methane culture" Sri B. K. Rao & Sri T. K. Ghosh—J. Sci. & Ind. Res. 18c (9) 176, 1959.
5. "Stoichiometry of continuous fermentation of Acetic Acid in enriched cultures of methano bacteria" Sri B. Das Gupta & Sri T. K. Ghosh—J. Sci. & Ind. Res. 18c (9), 178, 1959.
6. "Utilization of Wastes Part-I Principles of sewage sludge fermentation—its recent development and future prospects" Sri T. K. Ghose—Sci. & Cul. 25, 175, 1959.

FOOD TECHNOLOGY

Research :

C. S. I. R. SPONSORED SCHEME—work in progress

1. **Varietal** Suitability for Preservation of Fruits & Vegetables
2. Storage and Respiration of Fruits and Vegetables.
3. Heat **Resistance** of Bacterial Spores.

I. C. A. R. Sponsored Schemes—work in progress

4. Microbial Flora Associated with Fresh Water Fish
5. Transport and Short-time Preservation of Fish

I. C. M. R. Sponsored Scheme—work in progress

6. Par-boiling of Rice

West Bengal Government sponsored scheme—work in progress

7. Investigation into Adulteration of Processed Foods.

University grants commission fellowship—work in progress

8. Investigation into Bio-chemical changes accompanying Endospore Formation in *B. subtilis*.

FERMENTATION TECHNOLOGY

C. T. I. R. Sponsored schemes—work in progress

1. Study of the characteristics of gases obtained by fermentation of fresh and partly digested primary sludge.
2. Correlating Bio-chemical Oxygen Demand with the amount and nature of components both organic and inorganic present in various waste waters.
3. Bacterial production of sulphur from sulphates using cheap hydrogen-donors

University Grants Commission Fellowship—work in progress

4. Bacterial production of Lactic Acid from cheap carbohydrate source.

Publications :

FOOD TECHNOLOGY

1. Studies on heat resistance of *B. Subtilis* spore—I—Effect of different chemicals—Sri A. N. Bose and Sri A. K. Roy—J. Sci. & Ind. Res. 18c, 248 (1959).

2. Changes in Chemical composition of fish-tissue during storage—Sri A. N. Bose and Sri D. Roy Chowdhury—J. & Proc. Inst. Chem. (India), 31, 171, (1959).
3. Storage loss of sulphur dioxide in the ripe mango pulps preserved with bisulphites—Sri A. N. Bose and Sri S. B. Lodh—J. & Proc. Inst. Chem (India) 32, 9, (1960).
4. Dehydration of Foods—Sri A. N. Bose, FAO Regional Seminar on Food Technology for Asia and Far East, Mysore (1959).
5. Fish and Fish Products—Sri A. N. Bose—Annual Review of Biochemical and Allied Research in India, 30, 125 (1959).
6. Patent : Application was filed for a patent on "Improvement in or relating to soaking, gelatinizing and drying for the process of parboiling of rice and to equipment therefor."

FERMENTATION TECHNOLOGY

1. Activated sludge production and the treatment of organic wastes—Sri T. K. Ghose—Proceedings of the Symposium on Utilization of by-product of leather industries, Central Leather Research Institute, February, 1960.
2. Studies on the rate of demineralization of graphite by phase exchange process—Sri T. K. Ghose & Sri A. P. Sinha—Presented at the Centenary Celebration Symposium, Indian Institute of Science, Bangalore--J. Metals, Mines and Fuels, VIII 7, 107, (1960).

CIVIL ENGINEERING

RESEARCH :

Post Graduate :

(i) Sri N. Chaudhury, Reader, completed his thesis on "Behaviour of Twin-Twisted Bars in Re-inforced concrete Beams subjected to Bonding". The thesis was submitted to the University as part fulfilment of his M. C. E. Examination 1959 (which has since been completed).

(ii) The undermentioned four Teachers who were registered for Post-graduate course of the University for the Degree of M. C. E. were assigned research problems for part compliance to the requirements, as indicated against each of them :—

Sri Jyotirmoy Sarkar—

“Strength characteristics of R. C. Rectangular Beams with Twin-Twisted Re-inforcement at low percentages of tension steel without stirrups and top rods”

Sri Subhas Das—

“Behaviour of Twin-Twisted bars as Re-inforcement in Concrete Beams without stirrups and compression steel and at high percentages of tension steel.”

Sri Bholanath Ghose—

“Strength characteristics of rectangular R. C. Beams with Twin-Twisted tension steel and compression re-inforcement (at equal and fifty percent of tension steel)”.

Sri A. K. Mitra—

“Studies of work hardened single bars in R. C. Rectangular Beams and T-Beams as well as Replacement value of Compression Steel”.

(iii) The following problems taken up during the year under review are still under investigation :—

“Study of strength characteristics of compacted clay sample under various degrees of compaction—by Sri P. Som.

“Soil Mechanics in relation to Pile Action”—by Sri K. Ray.

Undergraduate Research Problems—(in part fulfilment of Sessional work relating to Project and Thesis.)

(i) The following two research problems were completed by the undergraduate students of the outgoing 4th. year class (appearing in May, 1960) and Problems of experimental studies completed are—

(a) Crushing Strength of Concrete Cubes at 7-days', 14-days' and 28-days' tests for different degrees of salinity in water and with different gradings of aggregates.

(b) Crushing strength of Concrete Cubes at 7-days', 14-days' and 28-days' tests for various water cement ratios and with different gradings of aggregates.

(ii) The 3rd. year students were given the following problems for theses :—

Comparison of average Crushing Strengths of Concrete with maximum values induced on Beams subjected to Bending at 7-days', 14-days' and 28-days' tests for various water-cement ratios and with different gradings of aggregates. (work in progress)

Publications :

“A Critical Review of the analysis of Suspension Bridges” by Sri P. Som. Published in “Engineer” Annual No. 1959 April.

ORGANIC CHEMISTRY

Publications :

1. Synthesis of Decalone by, Sri Bidyut Kamal Bhattacharyya and Sri Karuna Prasad Roy Chaudhury, Science and Culture, 24, 338 (January), 1959.
2. Synthesis of 1 : 2 : 3 : 4 : 10 : 11-Hexahydro-1-methyl-2-oxofluorene by Sri Bidyut Kamal Bhattacharyya, Sri Amareswar Chatterjee and Sri Beda Prasad Sen, Science and Culture, 24, No. 11, 533 (1959).
3. Studies in Michael Condensation. Part. IV Condensation of 8-Methyl-bicyclo (4 : 3 : 0)-nonanone-4 with 1-methyl-2-acetyl-cyclohexene, by Sri Sisir Kumar Sen Gupta and Sri Bidyut Kamal Bhattacharyya, J. Ind. Chem. Soc., 36, 273 (1959).
4. Studies in the Friedel Craft reaction. Part IV. Synthesis of 7-isopropyl-3-keto-6-methoxy-1 : 2 : 3 : 9 : 10 : 10 a-hexahydrophenanthrene, by Sri Sisir Kumar Sen Gupta, Sri Rabindra Nath Biswas and Sri Bidyut Kamal Bhattacharyya, J. Ind. Chem. Soc. 36, 695 (1959).
5. Studies in Michael condensation. Part V. Synthesis of 2-4b-dimethyl-1 : 7-diketo-1 : 2 : 3 : 4 : 4a : 4b : 5 : 6 : 9 : 10 : 10a-dodeca-bydrophenanthrene, by Sri Amalendu Banerjee, Sri Barid Baran Mukherjee and Sri Bidyut Kamal Bhattacharyya, J. Ind. Chem. Soc. 36, 755 (1959).
6. Synthesis of 1-acetyl-cis-8-methyl hydrindane, by Sri Shubhabrata Raymahasay, Sri Sisir Kumar Sengupta and Sri Bidyut Kamal Bhattacharyya, J. Ind. Chem. Soc. 36, 765 (1959).
7. Role of Electronic, Steric and other Factors in Dieckmann cyclisation. The cyclisation of ethyl-2-methyl-1, 2, 5-tricarboxylate, by Sri Jadugopal Dutta and Sri Rabindra Nath Biswas, Proc. 47th. Indian Sci. Congr., Part III, 147.

INORGANIC CHEMISTRY

Publications

1. Separation of niobium and tantalum with phenyl arsonic acid, by Sri A. K. Majumdar and Sri A. K. Mukherjee, Anal. Chim. Acta. 21, 330 (1959).
2. Use of high frequency oscillometer. Part, I Estimation of silver, by Sri A. K. Majumdar and Sri A. K. Mukherjee, Anal. Chim. Acta 20, 511 (1959).
3. Spectrophotometric determination of Osmium, Part. I Anthranilic acid as a reagent, by Sri A. K. Majumdar and Sri J. G. Sengupta, Anal. Chim. Acta 20, 532 (1959).
4. Spectrophotometric determination of Osmium, Part II, Sulphanilic acid as a reagent, by Sri A. K. Majumdar and Sri J. G. Sengupta, Anal. Chim. Acta. 21, 260 (1959).

5. Use of high frequency Oscillometer. Part. II Estimation of inorganic ions with chromate and oxalate, by Sri A. K. Majumdar and Sri B. K. Mitra, *Anal. Chim. Acta*, 21, 29 (1959).
6. Electrochromatography in the separation of ions. Part VII. separation of fourth group elements, by Sri A. K. Majumdar and Sri B. R. Singh, *Anal. Chim. Acta*, 20, 275 (1959).
7. Amperometric determination of palladium with mercapto compounds, by Sri A. K. Majumdar and Sri M. M. Chakrabartty, *Anal. Chim. Acta*, 20, 386 (1959).
8. Spectrophotometric determination of palladium, Part III 2-mercapto-benzothiozole and 2-mercapto benzimidazole as analytical reagents, by Sri A. K. Majumdar and Sri M. M. Chakraborty, *Anal. Chim. Acta*, 20, 379 (1959).
9. Spectrophotometric determination of copper with tiron, by Sri A. K. Majumdar and Sri C. P. Savariar, *Anal. Chim. Acta*, 21, 53, (1959).
10. Spectrophotometric determination of osmium with tiron, by Sri A. K. Majumdar and Sri C. P. Savariar, *Anal. Chim. Acta*, 21, 146 (1959).
11. Spectrophotometric determination of iron with Quinolinic acid, by Sri A. K. Majumdar and Sri S. P. Bag, *Anal. Chim. Acta*, 21, 524 (1959).
12. Spectrophotometric determination of iron with 2-oxy-3-napthoic acid, by Sri A. K. Majumdar and Sri C. P. Savariar, *Anal. Chim. Acta*, 21, 47 (1959).
13. Direct estimation of niobium with N-benzoyl-N-phenyl-hydroxylamine, by Sri A. K. Majumdar and Sri A. K. Mukherjee, *Anal. Chim. Acta*, 21, 245 (1959).
14. Spectrophotometric determination of molybdenum (vi) with 9-methyl-2, 3, 7-trihydroxy-6-fluorone, by Sri A. K. Majumdar and Sri C. P. Savariar, *Anal. Chim. Acta*, (under publication).
15. Spectrophotometric determination of titanium with 9-methyl-2, 3, 7-trihydroxy-6-fluorone, by Sri A. K. Majumdar and Sri C. P. Savariar, *Anal. Chim. Acta*, (under publication).
16. O-Carboxy-phenylazo 1,8-Dihydroxy-napthalene 3,6-disulphonate (sodium salt) as an analytical reagent, by Sri A. K. Majumdar and Sri C. P. Savariar, *Naturwissenschaften*, 46, 323 (1959).
17. Separation of zirconium from niobium and tantalum with salicyl hydroxamic acid, by Sri A. K. Majumdar and Sri A. K. Mukherjee, *Anal. Chim. Acta*, 22, 25 (1960).
18. Spectrophotometric determination of osmium, platinum and ruthenium by organic reagents, by Sri A. K. Majumdar and Sri J. G. Sengupta, *Naturwissenschaften*, 46, 374 (1959).
19. Spectrophotometric determination of osmium, Part III, o-amino-phenol-p-sulphonic acid as a reagent, by Sri A. K. Majumdar and Sri J. G. Sengupta, *Anal. Chim. Acta* (under publication).

20. Spectrophotometric determination of osmium, Part IV, 1-amino-8-naphthol-3, 6-disulphonic acid as a reagent, by Sri A. K. Majumdar and Sri J. G. Sengupta, *Anal. Chim. Acta* (under publication).

21. Paper Chromatography in the separation of alkali and alkaline earth metals, by Sri A. K. Majumdar and Sri Bijoli K. Pal, *Z. Anal. Chem.* (under publication).

22. Determination of niobium and tantalum with Cinnamyl-hydroxamic acid and N-cinnamoyl-N-Phenyl hydroxylamine, by Sri A. K. Majumdar and Sri A. K. Mukherjee, *Anal. Chim. Acta* (under publication).

23. Separation of niobium, tantalum, titanium and zirconium from each other, by Sri A. K. Majumdar and Sri A. K. Mukherjee, *Anal. Chim. Acta* (under publication).

24. O-carboxyphenylazo chromotropic acid (sodium salt) as an analytical reagent Part I. chelatometric titration of thorium, zirconium and iron, by Sri A. K. Majumdar and C. P. Savariar, *Z. Anal. Chem.* (under publication).

25. O-carboxyphenyl-azo chromotropic acid (sodium salt) as an analytical reagent Part II. Spectrophotometric determination of thorium and aluminium, by Sri A. K. Majumdar and Sri C. P. Savariar, *Z. Anal. Chem.* (under publication).

26. Estimation of niobium and tantalum in presence of various ions and in steel with N-benzoyl-N-phenyl hydroxylamine, by Sri A. K. Majumdar and Sri A. K. Mukherjee, *Analyst* (under publication).

27. Spectrophotometric studies on the nature of iron complexes with pyridine and quinoline carboxylic acids, by Sri A. K. Majumdar and Sri S. P. Bag, *Anal. Chim. Acta* (under publication).

28. A thermodynamic study of some Metal-biguanide complexes by Sri D. Sen and Sri A. K. Chakraborty (*Proc. 47th. Ind. Sci. Cong. Part III pp. 174, (1960).*)

29. Pyridine complex of pentavalent rhenium, by Sri D. Sen and Sri B. Sur (*ibid, 175*).

30. Complex compounds of quadri—and pentavalent rhenium with pyridine and its analogues, by Sri D. Sen and Sri B. Sur (communicated to *Science and Culture*).

31. Spectrophotometric estimation of manganese with Organic hydroxamic acids, by Sri A. K. Chakraborty (communicated to the third International Conference on Analytical Chemistry, Charles University, Praha, Czechoslovakia).

32. The use of hydroxamic acids as Gravimetric Reagents for titanium and zirconium, by Sri A. K. Chakraborty (communicated to the Third International Conference on Analytical Chemistry, Charles University, Praha, Czechoslovakia).

33. Anionic manganese (III) hydroxamic acid complexes, by Sri A. K. Chakraborty, Proc. 47th. Ind. Sci. Abstracts, Part III, pp. 175, (1960).
34. Polarographic studies on copper biguanide Chelate, by Sri Asit Kumar Roy, Proc. 47th. Ind. Sci. Cong. Abstr. Part III, (1960).
35. Spectrophotometric determination of iron with-3-oximinomethyl salicylic acid, by Sri Asit Kumar Roy, Proc, 47th. Ind. Sci. Congr. Abstr. Part III (1960).
36. 3-Oximinomethyl salicylic acid as an analytical reagent, Part I. Gravimetric estimation of copper and nickel and separation of Copper from various metal ions, by Sri Asit Kumar Roy, J. Indian Chem. Soc. (under publication).
37. 3-Oximinomethyl salicylic acid as an analytical reagent, Part II. Spectrophotometric determination of uranium, by Sri Asit Kumar Roy, Indian Chem. Soc. (under publication).
38. Stability of Copper-biguanide complexes by Bjerrum method, by Sri Asit Kumar Roy, Z. anorg. Chem. (under publication).
39. Thenoyltrifluoroacetone as colorimetric reagent—Sri A. K. De and Sri S. M. Khopkar, Chem. & Ind. 26, 854 (1959).
40. Ion-Exchange studies of uranium—Sri Asit Roy, Sri S. M. Khopkar and Sri A. K. De, Science and Culture, 25, 443 (1960).
41. Rapid extraction of copper with 2-thenoyltrifluoroacetone-Direct Colorimetric determination in the organic phase—Sri S. M. Khopkar and Sri A. K. De, Z. Anal. Chem. 171, 241 (1959).
42. Cation exchange behaviour of uranium on Amberlite IR-120, Separation from mixtures—idem, Anal. Chim. Acta, 22, 1953 (1960).
43. Rapid extraction of iron with 2-thenoyltrifluoroacetone. Direct colorimetric determination in the organic phase—idem. *ibid.*, to appear in March, 1960.
44. Simultaneous extraction and spectrophotometric determination of cerium with 2-thenoyltrifluoroacetone—idem, Anal. Chem. (in press).
45. Rapid extraction and spectrophotometric determination of uranium with 2-thenoyltrifluoroacetone—idem, Analyst (in press),
46. Anion exchange studies of uranium in sulphate and carbonate solutions. Separation from mixtures—idem, Anal. Chim. Acta, (in press)
47. Cation exchange behaviour of lead on Dowex 50W-X8. separation from mixtures idem, Talanta (communicated).
48. Extraction of chromium with 2-thenoyltrifluoroacetone—Sri S. K. Majumdar and Sri A. K. De, Anal. Chem. (communicated).
49. Liquid—liquid extraction studies of iron with tributyl phosphate—idem, Talanta (communicated).

50. Liquid-liquid extraction of vanadium with tributyl phosphate—idem, Anal. Chem. (communicated).
51. Studies on the metal complexes of hydroxamic acids Part III—by Sri R. L. Datta, J. Indian Chem. Soc. 36, 285 (1959).
52. Studies on the Metal complexes of hydroxamic acids, Part IV—by Sri R. L. Datta, *ibid*, 36, 339 (1959).
53. Guanylalkylureas as their metallic complexes, Part I—by Sri R. L. Datta, *ibid*, 36, 499 (1959).
54. Guanylalkylureas and their metallic complexes, Part II—Sri R. L. Datta, *ibid*, 36, 567 (1959).
55. Guanylalkylureas and their metallic complexes Part III—by Sri R. L. Datta, *ibid*, 36, 567 (1959).
56. Complex compounds of Guanylalkylureas with Co. (III), Cr (III) and Pd. (II) (a note)—by Sri R. L. Datta and Sri B. Sur, Science and Culture, 25, 381 (1959).
57. Complex compounds of a n-hexylbiguanide—by Sri R. L. Datta—*z anorg. Chem.* 392, 237 (1959).
58. Complex compounds of hexamethylene dibiguanide—by Sri R. L. Datta, J. Indian Chem. Soc. 37, 32 (1960).
59. Complex compounds of Zinc biguanides and guanylalkylureas—by Sri B. Sur, J. Indian Chem. Soc. 36, 798 (1959)
60. Guanylalkylureas and their metallic complexes, Part V & VI—by Sri R. L. Datta and B. Sur (communicated to J. Indian Chem. Soc.)

PHYSICAL CHEMISTRY

Research :

1. Ion-exchange investigations :

Interaction of ions in exchange reactions with synthetic resins, both cationic and anionic, was the subject matter of investigation for the last two years.

The whole work was completed during the period and a thesis was drawn up and submitted to the Calcutta University for the D. Phil. (Science) degree.

2. Colloid Chemical Research :

Researches on the Electrokinetic potential and its dependance on the dielectric constant of the medium of suspension were carried out. The work was mainly directed to different systems such as glass, quartz and barytes. One paper was published having the title :

“Dependence of electrokinetic potential on the dielectric constant of the medium—Part I. The Glass System and another paper on the same subject on,

The Barytes and the Quartz system have been communicated to the Journal of Ind. Chem. Soc. and has been accepted for publication. Researches on the stability and electrokinetic potential of colloids have been extended to the case of Arsenius sulphide sol. in nonaqueous media. The work is progressing.

3. High Frequency Titration :

This work was continued in collaboration with research fellows sanctioned by the Council of Scientific and Industrial Research. Two notes were published on this in the "Science and Culture" and the third note, worked out during the period, is ready for communication.

4. Studies on Indian Plant Gums :

The work is in progress. One paper entitled 'Viscometric titration of *Acacia* Catechuic acid' has been published in the Journal of Polymer Science, 1959, 39, 552. Another paper on the conductometric and potentiometric titrations has been communicated to the Journal of C.S.I.R. and accepted for publication. Two more papers on the properties of *Azorectic* Acid have been communicated for publication in the journal of Physical Chemistry.

5. Polarographic Investigation :

During the period under review the effect of viscosity on the diffusion current and half wave potential was studied in respect to the waves of Zn and Cd ions. The results were interesting in as much as it was observed that a dilute solution (0.1M) yielded more reproducible results and constancy of the half-wave potential. The results have been communicated to the symposium on Electro-chemistry organised at Karaikundi. Another interesting piece of work in this connection was done on the conversion of Quinone to Semiquinone in connection with investigations on the efficacy of an oral contraceptive. This has been published as a note in the Science and Culture 1959, July issue.

6. Photochemical Researches and Resonance Energy Transfer :

During this period schemes of work on Photochemical reactions and resonance energy transfer were formulated. Investigations on the phenomenon of fluorescence in condensed systems were taken up. It was contemplated to take two aspects of the problem—(1) the mechanism of quenching of fluorescence in solution, (ii) probability of resonance energy transfer between excited molecules. Some progress was made on the quenching of fluorescence of *anthracene*, *rhodamin* and *anthranilic acid* by nitrobenzene and the effect of concentration and viscosity was studied by Lumetron Fluorimeter. Two notes based on this work were published in the Proceedings of the Indian Science Congress. One paper on Photochemical reactions has been communicated to the Proceedings of the National Institute of Sciences of India and accepted for publication.

The work on Conc. quenching of fluorescent substances has already been started. A new apparatus for the front face measurement of fluorescence is under construction.

Publications :

1. Estimation of Ba, Ca & Mg ions and determination of hardness of water—Sri S. N. Mukherjee, Sri P. K. Bhattacharyya and Sri A. S. Bhattacharyya, *Sci. & Cul.* (1959), 25, 1953.
2. Viscometric titration of Acacia Catechuic acid—Sri S. N. Mukherjee & Sri V. K. Kulshrestha, *Jour. Phy. Sci.* 1959, 39, 252.
3. Conversion of Quinone to Semiquinone—Sri S. N. Mukherjee & Sri S. N. Sanyal, *Sci. & Cul.* 1959 July issue.
4. Introduction to Physical Chemistry—Sri S. N. Mukherjee—Vols. I & II.
5. Estimation of Methacrylic Esters with Mercuric Acetate by Nonaqueous Titration—Sri K. L. Mallik and Sri M. N. Das—*Chemistry and Industry*, 162, 1959.
6. Conductivity and pH measurements in Acacia Catechuic acid—by Sri Kulshrestha and Sri Mukherjee—Communicated to the Journal of Council of Scientific & Industrial Research.
7. Viscometric conductometric and potentiometric & pH measurements in Azre Ch. acid—by Sri Kulshrestha and Sri Mukherjee—both communicated to the Journal of Physical Chemistry,
8. High Frequency Titration—estimation of mercaptans—by (Miss) B. Ray, Sri K. L. Mallik and Sri S. N. Mukherjee—communicated to Science and Culture.
9. Thermal and Photochemical Oxidation of Glycerol by $K_2Cr_2O_7$ soln.—Part I by (Miss) K. K. Rohatgi—*Transaction of National Institute of Sciences, India*, 26, 507, 1960.
10. Distribution of Two Ions between Ion-exchanges and solution—by Sri L. Pochali—*J. Ind. Chem. Soc.* 37, 451 (1960).
11. Ion-exchange Reaction with Heteroionic Synthetic Resins. Part I. Cation Exchange—by Sri L. Pochhali; *J. Ind. Chem. Soc.* 37, 521 (1960).
12. Ion-exchange Reaction with Heteroionic Synthetic Resins. Part II. Anion Exchange by Sri L. Pochhali, *J. Ind. Chem. Soc.* 37, 527 (1960).

MATHEMATICS

Research :

1. Solution of biharmonic equation in trilinear co-ordinates—Dr. B. Sen (One paper has been accepted for publication in the Indian Journal of Theoretical Physics),

2. Motion of Incompressible Viscous Fluid—Sri S. R. Khamrui (one paper has been accepted for publication in the Bulletin of the Calcutta Mathematical Society and another paper is to be published in the Journal of Science and Engineering Research).

3. Problems of torsional Vibrations of Elastic Solids—Sri A. K. Mitra (one paper has been accepted for publication in the Indian Journal of Theoretical Physics).

4. Water Waves—Sri Ashim Ranjan Sen.

5. Motion of Solids in liquids—Sri S. Majumdar

6. Problems of Thermo-elasticity—Sri B. Das.

7. Rigid Inclusions in Elastic Solids—Sm. Smriti Kana Bhowmick (one paper has been accepted for publication in Zeitschrift fur angewandte Mathematik und Physik).

8. Dynamical behaviour of localized axisymmetric turbulence with the help of Fourier representation—Sri K. M. Ghosh.

9. Dynamical Problems of Elasticity—Dr. S. K. Chakravarty.

Publications :

1. Note on the bending of a thin equilateral plate under tension—Dr. B. Sen, Z. A. M. M. Band 40 (1960).

2. Propagation of Elastic Waves in an Infinite plate of cylindrically Aeolotropic Material—Sri Manindra Mitra, Z. A. M. P. Vol. X (1959) pp. 579-583.

3. Solution of the buried source problem for an extended two-dimensional source in an elastic medium—Sri Manindra Mitra—Proc. National Institute of Science of India—Vol. 25 (1959) pp. 236-242.

4. On disturbance generated by a pulse of pressure on the surface of a cavity in an elastic medium—Sri Sakti Kanta Chakravarty—Indian Journal of Theoretical Physics—Vol. 6 pp. 85-89 (Published in 1959).

5. Surface Waves on fluid of finite depth due to arbitrary surface impulse and elevation—Sri Ashim Ranjan Sen—Journal of Technology, Vol. IV, no 2, 1959.

6. On compressional waves in the direction of the axis of a cylindrical hole in an anisotropic medium having hexagonal symmetry—Sri Sakti Kanta Chakravarty, Bulletin of the Calcutta Mathematical Society—Vol. 51 (1959) pp. 141-145.

7. A note on the torsional vibration of a conical bar with varying rigidity and density—Sri Achintya Kumar Mitra, Journal of Technology, Vol. IV (1959) pp. 37-39.

PHYSICS

Research :

During the period under report, the following research problems were undertaken by the Departments —

- (i) Theoretical Physics.
- (ii) Fluorescence spectra and Photo-conductivity.
- (iii) Micro-wave spectroscopy and Discharge phenomena in gases.
- (iv) Radio-carbon dating.
- (v) Nuclear emulsion technique.
- (vi) Hall & Thermo-electric effect in Semi-conductors.
- (vii) Cosmic rays.

Publications :

1. Bound states in Quantum electrodynamics—Sri T. C. Roy, *Science and Culture*, March, 1959.
2. Bound states in Quantum electrodynamics—Sri T. C. Roy (accepted for publication in *Zeits. f. Physik*).
3. Induced Lightning strokes—Sri S. D. Chatterjee and Sri B. K. Dutta (accepted for publication in *Indian Journal of Physics*, April, 1960).

GEOLOGICAL SCIENCES

Research :

Progress in research work by the staff and Research Scholars of the Department was satisfactory during the period under report. The Government of West Bengal sanctioned an annual grant of Rs. 3,000/- for investigation of ore minerals of West Bengal. In addition one research scholar is working on sedimentological problems under a scheme sanctioned by the Ministry of Scientific Research & Cultural Affairs, Government of India, while another scheme on Coal Petrology sanctioned by C. S. I. R. is also in progress. The National Institute of Science of India offered a Junior Research Fellowship (Rs. 400/- p. m.) to Sri K. L. Chakravarty, M. Sc. a Lecturer of the Department to continue research on the genesis of the chromite ores of India under the guidance of Sri. S. Deb, F. N. I. Sri Chakravarty has taken study leave from the University for one year to study the problem of chromite mineralisation.

Publications :

1. Ore Microscopy and its industrial applications—by Sri. S. Deb—*Indian Minerals*, Vol. 13, No. 3. 1959.
2. Mineragraphic study of vanadium-bearing titaniferous magnetite associated with the gabbro-anorthosites of Nausahi, Keonjhar Dt. Orissa, India—the textural relations and paragenesis. Sri K. L. Chakravarty—*Proc. N. I. S. I.* Vol. 25, No. 5, 1959.

3. Study of coal occurrences from Bachra area, Ranchi District, North Karanpura Coalfields, with special reference to their chemical and petrological characters and their correlation—by Sri Bankim Mukherjee and Sri Jayanta Datta—Proc. N. I. S. I. Vol. 25A, No. 5, 1959.

4. Mineralogy and Texture of the Manganese Ore Bodies of Dongari Buzurg, Bhandara District, India—by Sri Supriya Roy—Economic Geology Vol. 54. No. 8. 1959.

5. Origin of the chromite deposits associated with the ultrabasic rocks of the Eastern part of the Indian Peninsula—by Sri S. Deb and Sri K. L. Chakravarty Communicated to International Geological Congress to be held at Copenhagen in August, 1960.

6. Thermal experiment with the titanium bearing chromite and vanadium bearing titaniferous magnetites of Nausahi (Keonjhar District), Orissa—by Sri K. L. Chakravarty—Science & Culture, Vol. 25, 1959.

7. Manganese minerals in the iron-ore deposits of Sulaipat-Badampahar Range Mayurbhanj and their origin—by Bankim Mukherjee and K. L. Chakravarty—Jr. Mines, Metals and Fuels, July, 1959.

8. Trend of differentiation in the gabbro-anorthosite suite of rocks from Nausahi, Keonjhar District, Orissa—by Sri S. Deb and Sri K. L. Chakravarty—Proc. Ind. Sc. Congress, 1960, 47th. session.

9. Hydrothermal alteration of the wall-rocks in the Mosaboni copper mines, Singhbhum, Bihar—by Sri S. Deb and Sri S. C. Sarkar—Proc. Ind. Sc. Congress 1960, 47th. session.

10. Differential thermal analysis of coal from Bukbuka seam near Khalari, North Karanpura coalfield, Ranchi District—by Sri B. C. Mukherjee and Sri A. Basu—Proc. Ind. Sc. Congress, 1960, 47th. session.

11. Studies on diformation characteristics of conglomerates along shear zone between Gandamara and Toira, Singhbhum District—by Sri B. C. Mukherjee and Sri K. Roy—Proc. Ind. Sc. Congress, 1960. 47th. session.

12. Mineralogy and texture of the manganese ores of Kodur, Shrikakalam District, Andhra Pradesh, India—by Sri S. Roy—Proc. Ind. Sc. Congress, 1960. 47th. session.

13. Note on the structural studies of an **Archaean** tract near the trijunction of Bankura, Midnapore and Purulia District, West Bengal—by Sri P. S. Chakrabarty—Proc. Ind. Sc. Congress, 1960. 47th. session.

14. Importance of Parseoni group—a separate gonditic ore bearing formation the Sausar sequence—by Sri Nitin Kumar Basu—Proc. Ind. Sc. Congress—1960, 47th. session.

15. Coronadite from the manganese ores of Dongari Buzurg and Kodur, India—by Sri Supriya Roy—Naturwissenschaften, Heft 2, S. 71, 1959.

16. Variation in etch behaviour of Jacobsite with different cell dimensions --by Supriya Roy—Nature-Vol. 183, pp. 1256-1257, 1959.

HISTORY

Research :

1. Sri Ranajit Guha, Lecturer, is continuing his work on "Agrarian History of Early British Bengal"—at present on an assignment with the Manchester University.
2. Sri S. K. Maity, Lecturer, is continuing his research on Economic History of 'Ancient India in the Post-Gupta Age A. D. 550—A. D. 750'.
3. Sri Asit Sen has completed his thesis on 'Popular Pressures in Sultanate Politics' under the supervision of Sri S. C. Sarkar.
4. Srimati Usha Chakravarti has almost finished her thesis on 'The Condition of Bengali Women in the second half of the 19th. Century' under the guidance of Sri S. C. Sarkar.
5. Sri Kalyan Sen has begun his research on 'Bengali Political Thought, 1835-1905 under the supervision of Sri B. P. Mukherji.
6. Sri Sasankasekhar Parui has commenced his work on 'Castes and Professions in Early Indian History' under the guidance of Sri S. K. Maity.

Publications :

1. Edition of 'The Norris Embassy to Aurangazeb' by late H. Das, re-arranged, condensed, and annotated by Sri S. C. Sarkar, published by Firma K. L. Mukhopadhyay 1960.
2. 'Mysticism in the History of Science'—by Sri S. C. Sarkar, in 'Enquiry' No. 2—1960.
3. 'Caste in Ancient India'—by Sri. S. K. Maity, in 'Man in India' Vol. 40, No. 1—1960-
4. Gold content of the Imperial Gupta gold coins (Indian Museum, Calcutta). Proceedings of The Indian History Congress—1959 :—Sri S. K. Maity.
5. Gold content of the Sasanka's gold coins (Indian Museum, Calcutta). Proceedings of The Indian History Congress—1959 :—Sri S. K. Maity.
6. Gold content of the Mediaeval Dynasties gold coins of Central and Northern India (Indian Museum, Calcutta).—Proceedings of the Indian History, Congress—1959 :—Sri S. K. Maity.
7. Gold content of the Mediaeval Dynasties gold coins of Northern India (Indian Museum, Calcutta).—Proceedings of the Indian History Congress—1959 :—Sri S. K. Maity.
8. 'Karmadevi'—by Sri N. S. Bose—'Itihasa' Vol. VIII, No. 3—1959.
9. 'Rammohan Roy'—by Sri N. S. Bose—'Adhunatan', 1959.
10. A peep into the Socio-economic condition of Bengal in the second half of the 18th. century—by Sri N. S. Bose—Calcutta Review, April, 1960.
11. Gordon Childe—by Sri B. P. Mukherjee—"Bingsha Satabdi"—Annual, 1959.

COMPARATIVE LITERATURE

Research :

1. The Oriental Influence on W. B. Yeats at North-Western University U. S. A.—Sri Naresh Guha.
2. The Development of the Bengali Novel—Sri Manabendra Mohan Banerji (Sri Banerji has been appointed a Research Fellow in the department and is working under the guidance of Sri Buddhadeva Bose.)

PUBLICATIONS

SRI ALOKERANJAN DAS GUPTA

1. Shilpacharya Schiller (Schiller the Artist) : Visva-Bharati Patrika.—1959
2. Ekjan Bishishta Shikahabrati (A Distinguished Educationist : Tanayendranath Ghose) : Visva-Bharati Patrika—1959.
3. Michael O Amader Renaissance (Michael Madhusudan Datta and our Renaissance) Desh—1959.
4. Alore Phulki O' Abanindranather Gadya—Visva-Bharati Patrika—1959.

SRI BUDDHADEVA BOSE

1. Comparative Literature in India (in English) : Yearbook of Comparative and General Literature 1959 (Published by the University of North Carolina, U. S. A.)
2. Twins in Suffering : Dostoevsky and Baudelaire (in English), contributed as Preface to an edition of Dostoevsky's Notes from Underground and the Double published by Messrs. Rupa & Co., Calcutta—1960.
3. Charles Baudelaire O Adhunik Kavita (Charles Baudelaire and Modern Poetry) in Bengali : Kavita, Calcutta—1959.
4. An English Version of Rabindranath's Poem, "Duhsamay", Kavita, Calcutta—1960.
5. An English version of a poem by Sri Jibanananda Das : Kavita, Calcutta 1960.
6. English renderings of three of his own poems : Kavita, Calcutta—1960.
7. Two poems translated into English from his own Bengali : Quest, Bombay—1960.
8. Nature in Modern Poetry (In English). The Indian Listener—1960.
9. Nilanjaner Khata (The Notebooks of Nilanjan), a novel in Bengali—Bengal Publishers, Calcutta—1960.
10. Adhunik Bangala Kavita (An Anthology of Modern Bengali Poetry). Enlarged new edition : M. C. Sarkar & Sons, Calcutta—1960.
11. Transformations : A Poem translated into English from his own Bengali—Indian Literature (Sahitya Akademi, New Delhi).—1960.

SRI SUDHINDRANATH DATTA

1. Poems translated from French, German and Italian, into English, contributed to Kavita, Calcutta—1960.
2. Two poems translated into English from his own Bengali : Kavita, Calcutta—1960.

INTERNATIONAL RELATIONS

Publications

1. Neo-Nazism in West Germany. Sri Ansu Kumar Datta (Calcutta Review, June)—1960.
2. India faces China—Sri S. N. Dhar (The Vigil, Calcutta,—1960).
3. Dutch Sources relating to Indonesian Nationalism—Sri R. K. Vasil (International Studies, Vol. I, No. 2, New Delhi).
4. Expansionism of New China. Sri J. K. Roy—Anvil, 1959.
5. Communism and Militarism. Sri J. K. Roy—Anvil, 1960.
6. Spy-plane and International Law. Sri J. K. Roy—Anvil, 1960.

SANSKRIT

Research

There are at present five Research workers attached to the Department, and their work is being supervised by Sri S. Bhaduri and Sri R. Mukherji. The subjects assigned to them were as follows :—

- (1) The Concept of Time in Indian Philosophy.
- (2) A Critical Study of the Vaisesika Categories.
- (3) Development of the Alamkaras in Sanskrit.
- (4) Evolution of the Concept of Poetry in Sanskrit.
- (5) Studies in the Problem of Vyanjana.

PUBLICATIONS

SRI RAMARANJAN MUKHERJI

1. Critical Edition of Kavyaprakasa with English Exposition (Chapters I to V—Ready for publication.)
2. Samskriter Mahakavya—'Udbodhana', Chaitra, 1366 B. S.
3. Role of New Universities in India—accepted for publication in "Indian Journal of Education".

Sri GOPIKAMOHAN BHATTACHARYYA

1. Is Nyaya-Vaisesika Realistic?—The Calcutta Review, Dec. 1959.

SM. SUKUMARI BHATTACHARYYA

1. Rudra from the Vedas to the Mahabharata—accepted for publication in "The Journal of Bhandarkar Oriental Research Institute."

SANSKRIT

SRI SITANATH GOSWAMI

1. Khyativadah—Manjusa, October, 1959
2. Namah—Swastika, Puja Special Number.—1366 B. S.
3. Rakhibandhana—Swastika, August, 1959.
4. Ramanujiyasathyatimandanam—Manjusa, November, 1959.
5. Jaganmithyatvavada O Naitikata—Devajana, Chaitra, 1366 B.S.
6. Rasagangadhare Rasasvarupam—Manjusa, March, 1960.
7. Atmabhiswas—Swastika, March, 1960.
8. Nescience as defined by Citsukhacarya—accepted for publication in the "The Mother."

BENGALI

PUBLICATIONS :

SRI A. DUTT

1. Kabijibani—Bhabatosh Datta O Prachin Kabiwalar Gan—Visva-Bharati Patrika (Sravan—Asvin, 1366).
2. Bhasha-Silpi Abanindra Nath—Visva-Bharati Patrika (Kartick—Paus, 1366).

SRI P. R. GHOSH

1. Bhudeb Sahitya Prasange—Udbodhan (Baisakh, 1366).
2. Giti-Gunja—Atulprasad—Udbodhan (Ashar, 1366).
3. Pyarichand Mitra O Bangla Sahitya—Udbodhan (Kartik, 1366).
4. Derozio Prasange—Udbodhan (Phalgun—Chaitra, 1366).
5. Shivnath Shastri Prasange—Bulletin of R. K. M. Ashram (Narendrapur) December, 1959.

SRI M. GOSWAMI

1. Mukundaramer Chandi-Mangal—Udbodhan (Chaitra, 1365 : April, 1959).
2. Chaitanya Charitamrita—Udbodhan (Sravan, 1366 : July, 1959).
3. Madhusudaner Krishna Kumari Natak—Mandira (Baisakh, 1366 : April, 1959).
4. Bankimchandra Bisha-Briksha—Mandira (Sravan, 1366 : July, 1959).

ENGLISH

Publications :

- Sri S. N. Ray—One more truth about Rossetti—Bulletin of the Department of English, Calcutta University—Vol. I No. 1 Autumn, 1959.
- Sri P. K. Guha—Character and Catastrophe in Shakespearian Tragedy. Journal of the University of Jammu and Kashmir—Vol. II No. 2 December, 1959,

APPLICATIONS FOR ADMISSION

COURSES	No. of Applicants	Number Admitted		Total
		Boys	Girls	
Preparatory Arts—	43	11	18	29
Degree Course—(Arts)				
Philosophy	4	—	—	—
Sanskrit	4	1	—	1
English	4	1	—	1
Bengali	3	1	2	3
Comparative Literature	—	—	—	—
Economics	7	—	—	—
International Relations	12	3	1	4
History	8	1	2	3
P. G. Arts—				
Philosophy	69	8	23	31
Sanskrit	19	5	3	8
English	134	22	10	32
Bengali	172	12	18	30
Comparative Literature	46	6	12	18
Economics	233	16	3	19
International Relations	212	19	11	30
History	223	21	14	35
Preparatory Science	359	77	3	80
Degree Course—(Science)				
Mathematics	51	8	—	8
Physics	72	7	1	8
Chemistry	73	10	—	10
Geological Sciences	56	13	1	14
P. G. Science—				
Mathematics	233	30	2	32
Physics	139	4	1	5
Chemistry	16	—	—	—
Geological Sciences	6	1	—	1
Engineering Degree Courses—				
Mechanical Engineering	3566	90	—	90
Electrical Engineering	3188	90	—	90
Civil Engineering	2897	90	—	90
Chemical Engineering	1458	57	3	60
Tele-Communication Engineering	1136	36	4	40
Post-Graduate Engineering Courses—				
Mechanical Engineering	8	8	—	8
Electrical Engineering	—	—	—	—
Civil Engineering	2	2	—	2
Chemical Engineering	5	4	—	4
Food Technology	6	3	—	3
Part-time Degree Courses (Engineering)				
Mechanical Engineering	66	20	—	20
Electrical Engineering	37	20	—	20
Civil Engineering	237	53	—	53

FINAL POST-GRADUATE EXAMINATIONS

HELD IN 1959

LIST OF SUCCESSFUL CANDIDATES

Mechanical Engineering :

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Bimaladas Banerjee
2.	Binod Lal Das

Chemical Engineering :

SECOND CLASS

(In order of merit)

1.	Kamalkumar Samanta
2.	Santi Ranjan Kundagrami

Civil Engineering :

FIRST CLASS

(In order of merit)

1.	Nilay Chaudhury
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Engineering & Applied Geology :

SECOND CLASS

1.	Krishna Chandra Garg
----	----------------------

Mathematics :

FIRST CLASS

(In order of Merit)

1.	Hari Sadhan Paul
2.	Sabyasachee Chakrabarti
3.	Kartick Chandra Dey
4.	Gopinath Sarkar

Mathematics (Contd.)

5. Ranjit Kumar Mahalanabis
6. Tushar Kanti Das
7. Asankur Maity
8. Susilchandra Manna

SECOND CLASS

(In order of merit)

S. Nos.	Names
9.	Binode Behari Maiti
10.	Dilip Kumar Dey
11.	Abdul Majed Molla
12.	Nihar Kumar Bandyopadhyay
13.	Niradbaran Chakrabarti
14.	Amal Kumar Ghosh
15.	Tushar Kanti Bandopadhyay
16.	Chhaya Ganguly

Geological Sciences

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Kalyan Kumar Ray
2.	Sachinath Mitra
3.	Pratip Kumar Das Gupta
4.	Bijoy Kumar Ghosh
5.	Ramendra Narayan Sinha Roy
6.	Purnendusekhar Pal

SECOND CLASS

(In order of merit)

7.	Kumar Banerjee
8.	Utpalendu Bhattacharya
9.	Sukomal Mukherjee
10.	Ajay Ranjan Basu

English

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Bimal Kumar Bandopadhyaya

SECOND CLASS

(In order of merit)

2.	Aparna Kundu (nee Maitra)
3.	Rajendra Chandra Mardaraj
4.	Ibha Das Gupta
5.	Parmatmi Debi Sharma
6.	Santwana Lahiri (nee Adhikari)
7.	{ Shachi Banerjee Bhabadeb Bandyopadhyay

Bengali

SECOND CLASS

(In order of merit)

S. Nos.	Names
1.	Prabhu Ranjan Ghosh
2.	Nirupama Bandyopadhyaya
3.	Anuradha Gupta
4.	{ Namita Bhattacharyya Kanika Sarkar
6.	Ratna Mukherjee (Mukhopadhyay)
7.	{ Saurindrakumar Maiti Sephalyka Chakraborty (nee Chattopadhyay)
9.	Anuradha Sen Gupta
10.	Mudrajita Das
11.	Dipali Mitra
12.	Sabita Datta
13.	Pratibha Niyogi (Siromoni)
14.	Sulekha Mukhopadhyay
15.	Mira Sanyal
16.	Shyamapada Chakarvarty

Sanskrit

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Kalipada Giri
2.	Ratna Chatterjee

SECOND CLASS

(In order of merit)

3.	{ Barendra Nath Bera Dharitri Bhattacharyya
5.	Aparna Datta
6.	Gita Guha
7.	Madhuchhanda Bhaduri
8.	Kiranbala Debi

Philosophy

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Sarnath Basu
2.	Sukhamoy Ghosh

SECOND CLASS

(In order of merit)

3.	Subrata Niyogi
4.	Manjima Sarkar
5.	Durga Majumdar
6.	{ Dilip Kumar Chakraborty Murati Mohan Mandal
8.	Sushil Kumar Lahiri

Economics

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Ranjit Kumar Sau

Economics (Contd.)

SECOND CLASS

(In order of merit)

S. Nos.	Names
2.	Rajkumar Jain
3.	Indrani Das Gupta
4.	Sibsankar Mukhopadyay
5.	Dhirendranath Chakrabarty
6.	Sudhir Kumar Ghosh
7.	Tapas Kumar Acharyya
8.	Bankim Chandra Deb
9.	Krishna Ghatak
10.	Gopal Krishna Chakravarty
11.	Salil Chattopadhyay
12.	Pankoj Behari Bardhan

History :

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Deba Prosad Choudury
2.	Kalyan Sen

SECOND CLASS

(In order of merit)

3.	{ Pabitra Bhaskar Sinha Biswanath Bandyopadhyay
5.	P. V. Gopala Krishna Rao
6.	{ Sasanka Sekhar Parui Atasi Sarkar
8.	Manindra Nath Sarkar
9.	Raj Krishna Das
10.	Pratima Deb
11.	Sudhir Kumar Ghosh
12.	Rabindra Nath Ghorai

History (Contd.)

S. Nos.	Names
13.	Ranjan Kumar Baral
14.	Tushar Kanti Ghosh
15.	Shib Shankar Kundu
16.	Arati Majumder

International Relations

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	{ Prasanta Kumar Guha Kalyan Kumar Ghosh

SECOND CLASS

(In order to merit)

3.	Jnanbrota Bhattacharyya
4.	Sasti Kinkar Chatterjea
5.	Salil Kumar Ghosh
6.	Pravat Kumar Chakravorti
7.	{ Radhika Ranjan Roy Sumitra Guha
9.	Ila Debi
10.	Maya M. Gidwani
11.	C. Jagapati Rao
12.	Samares Panja
13.	Tushar Kanti Pande
14.	Bireswar Chattopadhaya
15.	Ira Joarder
16.	{ Paritosh Sarkar Salil Kumar Roy
18.	Bharati Das Gupta

Comparative Literature :

SECOND CLASS

(In order of merit)

S. Nos.	Names
1.	{ Phulrani Guha Deepak Kumar Majumdar
3.	Dipak Kumar Chakravarty
4.	Dipali Gupta (Sen)
5.	Ashoke Kumar Maitra

FINAL BACHELOR'S DEGREE
EXAMINATION HELD IN 1959
LIST OF SUCCESSFUL CANDIDATES

Chemical Engineering :

FIRST CLASS WITH HONOURS

(in order of merit)

S. Nos.	Names
1.	Pratul Chandra Dutta

FIRST CLASS

(In order of merit)

2.	Vijay Kumar
3.	Jagdish Chand
4.	Bimal Chandra Bhattacharyya
5.	Sukumar Bandyopadhyay
6.	Saibal Kanti Guha
7.	Sital Kumar Banerjee
8.	Tarit Kumar Roy
9.	Smarajit Das
10.	Dwarika Nath Sarkar
11.	Pran Gopal Saha
12.	Dhurjjati Prosad Bhattacharje
13.	Himangsu Kumar Sadhukhan
14.	Samar Kumar Basu
15.	Nikhilananda Pramanik
16.	Partha Sarathi Bakshi Gupta
17.	Deba Prasad De
18.	Dilip Kumar Bhattacharjee
19.	Amal Kumar Nath
20.	Dhruba Prosad Gangopadhyay
21.	Ajit Kumar Bhaduri
22.	Tushar Kanti Das
23.	{ Sisir Kumar Ghosh Rathindra Nath Gupta
25.	Nilendu Sekhar Bagchi
26.	Mahindar Nath Sharma

Chemical Engineering (Contd.)

SECOND CLASS

S. Nos.	Names
27.	Dilip Kumar Mitra
28.	Jugal Kishore
29.	Amalendu Kar
30.	Dipak Ranjan Ghosal
31.	Dilip Kumar Biswas
32.	Asim Banerjea
33.	Pradip Roy
34.	Biswa Nath Mazumdar
35.	Shyamal Chandra Bhattacharjea
36.	Sushanta Sanyal
37.	Subhendu Roy
38.	Subhendu Sarkar
39.	Mukul Roy
40.	Purnendu Mitra
41.	Diptikumar Basu
42.	Bibek Ranjan Sinha
43.	Sukumarmohan Kundu
44.	Deby Prosad Roy
45.	Chandraket Prasad
46.	Mrinal Kanti Som
47.	Nripesh Kumar Das Purkayastha
48.	Subrata Ghatak
49.	Tarapada Acharyya
50.	Provanjan Sen
51.	Ram Niwas Tiwari
52.	Arun Kumar Bhaduri
53.	Ranjit Kumar Ghosh
54.	Soumyendra Mohan Saha
55.	Ullal Mohan Kini

Mechanical Engineering—

FIRST CLASS WITH HONOURS

(In order of merit)

S. Nos.	Names
1.	Santosh Kumar Bhattacharya
2.	P. K. Hariharan

Mechanical Engineering (Contd.)

S. Nos.	Names
3.	Sadhan Choudhury
4.	Ballabh Das Daga
5.	Amrit Kumar Paul
6.	Tapan Kumar Gupta
7.	Ananta Krishna Paul
8.	Satadal Chattopadhyay
9.	Ajit Kumar Bhattacharji

FIRST CLASS

(In order of merit)

10.	Pronab Ghosh
11.	Parimal Chandra Ghosh
12.	Guru Prasad Sen Gupta
13.	{ Taradas De { Krishnanath Chakrabarti
15.	Debabrata Bandyopadhyay
16.	Jibendra Kumar Bhattacharya
17.	Mukul Chandra Banerjee
18.	Ashutosh Deb
19.	Arun Kumar Mukhopadhyay
20.	Amal Kanti Dhar Choudhury
21.	Bimal Krishna Pramanick
22.	Bhabatosh Narayan Roy
23.	Sajan Kumar Sharma
24.	Sujit Kumar Basu
25.	Biswajit Misra
26.	Indushekhar Chakravarty (I)
27.	Suraj Ratan Binani
28.	Dulal Kumar Mazumdar
29.	Kalidas Banerjee
30.	Sakti Pada Jash
31.	Provat Kumar Roy
32.	Sunil Ranjan Dey
33.	Malay Kumar Sarkar
34.	Samarendra Nath Baul Majumder
35.	Mahesh Behari Lal
36.	Sandwip Kumar Mukherjee
37.	Subimal Chaudhury

Mechanical Engg. (Contd.)

S. Nos.	Names
38.	Guruzada Narayana Rao
39.	Samarendra Nath Talukder
40.	Debabrata Chakrabarty
41.	Ahi Bhusan Chatterjee
42.	Partha Sarathi Roy
43.	Dipak Kumar Thakurta
44.	Pritish Kumar Nag
45.	Satish Kumar Sood
46.	Mahijit Majumdar
47.	Adhir Ranjan Basu
48.	Rabindra Nath Ghosal
49.	Priti Bhusan Banik
50.	{Pranab Kumar Sinha Roy {Mrinal Kanti Paul
52.	Sachis Chakrabarti
53.	Manabendu Choudhury
54.	Bipul Kanti Chatterjee
55.	Sudhangshu Sekhar Paul
56.	Sailendra Nath Chakravarty
57.	Pran Gopal Bardhan
58.	Surjit Singh
59.	Sujit Kumar Biswas
60.	Ashoke Kumar Bhadury
61.	Vinodray Babulal Doshi
62.	Milan Kumar Halder
63.	Pankoj Kumar Ghosh
64.	Amal Kumar Chandra
65.	Ashim Kumar Chandra
66.	Anal Ghosh
67.	Swapan Kumar Bhattacharyya
68.	Achintya Kumar Banga
69.	Satya Sadhan De
70.	Arun Kanti Sen Gupta
71.	Bhaskar Gangopadhyay
72.	Kamal Kumar Roy Choudhury
73.	{Dilip Kumar Dutt {Shasthi Chandra Cakravorty {Ramesh Mohan Khanna
76.	Manabendra Kumar Saha
77.	Pyari Mohan Samal
78.	Sunil Ranjan Bandopadhyay

Mechanical Engg. (contd.)

S. Nos.	Names
79.	Arun Kumar Mukherjee (II)
80.	Dipak Kumar Bose
81.	Shafiher Rahman
82.	Rabi Mukherji (Mukhopadhyay)
83.	Parimal Kumar Kundagrami
84.	Minoo Shapporji Bhavnagri
85.	Amit Kumar Nandy
86.	Niranjan Basu
87.	Chaturbhuj Maity
88.	Brahmaprosad Chatarji (Chatterjee)
89.	Krishen T. Sippy
90.	Dilip Kumar Mukherjee
91.	Ardhendu Bikash Mandal
92.	Tara Pada Gupta
93.	Rajat Kumar Das Gupta
94.	Syed Mohammad Habibur Rahman
95.	A. K. Parthasarathy
96.	Sarbir Singh Sarang
97.	Mihir Kumar Bhattacharyya

SECOND CLASS

(In order of merit)

98.	Nirode Baran Patra
99.	Subhas Ranjan Roy
100.	Dipak Kumar Guha
101.	{ Himadri Banerjee { Manish Kumar Ghosh
103.	Biman Behari Mukherjee
104.	Manishamay Mitra
105.	Sandwip Kumar Bagchi
106.	Amulya Kumar Ghoshal
107.	Sankar Banerji
108.	Tapas Kumar Guha
109.	Baladeb Batabyal
110.	Satya Ranjan Bhattacharyya
111.	Sushil Kumar Mitra
112.	Dipak Kumar Dey
113.	Pijush Kumar Dutta
114.	Kalyan Kumar Sen Gupta
115.	Diwakar Singh
116.	Tirtha Nath Sarma

Electrical Engineering (Power Option)—

FIRST CLASS WITH HONOURS

(In Order of merit)

S. Nos.	Names
1.	P. K. Sankaranarayanan
2.	Prasanta Kumar Mukherjee (I)
3.	Virendra Kumar Bhandari
4.	Arun Kumar Ambalal Modi
5.	Jitendra Narayan Chakravorty
6.	Braja Kishore Das

FIRST CLASS

(In order of merit)

7.	Amal Kanti Mukhopadhyay
8.	Shyamal Kanti Mukhopadhyay
9.	Khalil Ahmad Siddiqi
10.	Paranandi Vallabha Narayanamurty
11.	Hirendra Nath Roy
12.	Surapati Charan Pramanik
13.	Tarak Nath Saha
14.	Vishnu Prasad
15.	Basanta Kumar Rautaraya
16.	Amitava Sen Gupta
17.	Narayan Chandra Roy
18.	Ashok Kumar Panda
19.	Pravat Kumar Seal
20.	Dipak Kumar Nandy
21.	Dilip Datta
22.	Bibekananda Mohanty
23.	Ramesh Charan Padhy
24.	Sisir Datta Gupta
25.	Monoranjan Patnaik
26.	Asokankur Chakraborty
27.	Kalyan Kumar Mukherjee
28.	Aksboya Kumar Panda
29.	Susanta Kumar Ghosh
30.	Ronodeb Goho
31.	Shyamal Krishna Roy
32.	Binoda Chandra Pati
33.	Aloke Kumar Mukherjee
34.	Bishnupada Maji
35.	Anil Kumar Mukherjee

Electrical Engg. (Contd.)

S. Nos.	Names
36.	Manash Kumar Singha
37.	Debesh Chandra Chatterji (Chattopadhyay)
38.	Bibhuti Bhusan Patro
39.	Sudhansu Chandra Bardhan
40.	Bimal Kumar Mukherji
41.	Probir Kumar Sett
42.	Udaya Chandra Panda
43.	Rupendra Lal Mitra
44.	Mohindar Chand Merwaha
45.	Biswanath Ganguly
46.	Sunil Kumar Pal
47.	Nabin Chandra Sarma
48.	Prithwish Chandra Roy
49.	Brotindra Nath Sanyal

SECOND CLASS

50.	A. V. Kishore
51.	Kamalpada Naskar
52.	Ajay Kumar Sen
53.	Samar Kumar Bhattacharyya
54.	Baridbaran Mukhopadhyay

Electrical Engineering (Communication Option)—

FIRST CLASS WITH HONOURS

(In order of merit)

1.	Aniruddha Bhattacharya
----	------------------------

FIRST CLASS

2.	Subratakumar De
----	-----------------

Mathematics (Honours)—

FIRST CLASS

(In order of merit)

1.	Pranab Kumar Muhuri
----	---------------------

SECOND CLASS

(In order of merit)

2.	Ashit Baran Ghose
3.	Ramesh Chandra Das

Physics (Honours)—

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Ramendra Lal Ray
2.	Supriya Ray
3.	Sanat Kumar Mandal

SECOND CLASS

(In order of merit)

4.	Somendra Lal Ray
5.	Shyamalendu Guha
6.	Ranajit Kumar Bandyopadhyay
7.	Rabindra Nath Gupta
8.	Kanti Bhusan Bhowmik
9.	Subrato Chattopadhyay
10.	Nirode Govinda Sinha
11.	Umapasanna Lahiri

Chemistry (Honours)—

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Leena Chanda
2.	Gouri Sikdar

SECOND CLASS

(In order or merit)

3.	Prokash Kumar Chowrashi
4.	Rabindranath Ray
5.	Leena Ray
6.	Santa Chatterjee
7.	Dipak Kumar Acharya
8.	{ Bivabasu Chattopadhyay
	{ Samir Sarkar
	{ Arun Kumar Mukhopadhyay

Geological Sciences (Honours)—

FIRST CLASS

(In order of merit)

S. Nos.	Names
1.	Rabitosh Chakravorty
2.	Ashit Baran Roy
3.	Aniruddha Gangopadhyay
4.	Dakshina Ranjan Nandy
5.	Kamal Ranjan Chakraborty
6.	Harimoy Nandi
7.	Dhrubajyoti Roy
8.	Sailendra Kumar Das
9.	Sailendra Nath Das
10.	Fanindra Nath Mitra

SECOND CLASS

(In order of merit)

11.	Sakti Priya Banerjee
12.	Anandedeb Mukherjee
13.	Sandip Kumar Shome
14.	Surjya Kumar De
15.	Bibhas Ranjan Biswas
16.	Bibhuti Bhusan Mullick

History (Honours)—

SECOND CLASS

(In order of merit)

1.	Manjari Paul
----	--------------

Economics (Honours)—

SECOND CLASS

(In order of merit)

S. Nos.	Names
1.	Himangsu Chattopadhyay
2.	Sadhana Das
3.	Krishnadas Sarkar
4.	Alokemoy Datta
5.	Ashis Kumar Chatterjee

International Relations (Honours)—

SECOND CLASS

(In order of merit)

1.	<u>Sutapa Ghoshdastidar</u>
----	-----------------------------

APPENDIX 'F'

1. S. N. Bando Memorial—For securing the highest aggregate—Kalyan Kumar
Gold Medal of marks in all the courses of the Ray
M. Sc. Examination. (Geological Sc.)
2. Pramatha Nath Bose—For standing First in Geological—Kalyan Kumar
Memorial Medal Sciences at the M.Sc. Examination. Ray
3. Satish Chandra De—For standing First in the First—Kalipada Giri
Gold Medal Class securing the highest aggregate of marks in all the courses of (Sanskrit)
the M.A. Examination.
4. Puspa Roy Gold Medal—For securing the highest marks in—Ratna Chatter-
the First Class among the girl jee (Sanskrit)
students in all the subjects of the
M.A. Examination.
5. Bepin Chandra Pal—For standing First in International—
Memorial Medal Relations at the M. A. Examina- { Prasanta
tion. Kumar Guha,
Kalyan Kumar
Ghosh.
6. Sibapriya Chatterjee—For standing First in Physics at—Ramendra
Memorial Medal the B. Sc. Examination. Lal Ray
7. Benoy Sarkar —For securing the highest aggregate—P. K. Sankara-
Memorial Gold Medal of marks in all the courses of the narayananElec-
Bachelor of Engineering Examina- trical Engg.
tion. (Power Option)
8. Arun Kumar Bando- —For securing the second highest—Aniruddha
padhyay Memorial aggregate of marks in all the Bhattacharya
Memorial courses of the Bachelor of Engi- Elec. Engg.
neering Examination. (Communica-
tion Option)
9. Alumni Association—For being the best all-round—Sadhan
Memorial graduate of the year, Choudhury

10. Jatindra Krishna Medal —For standing First in Chemical—Pratul Chandra Datta Engineering at the Bachelor of Engineering Examination.
11. Ashoke Memorial Medal —For standing First in Electrical—P. K. Sankaranarayanan Engineering (Power option) at the Bachelor of Engineering Examination.
12. Kiron Chandra Roy—For standing First in Electrical—Aniruddha Bhattacharya Memorial Medal Engineering (Communication option) at the Bachelor of Engineering Examination.
13. Srish Chandra Pratap Medal Bir—For standing First in Mechanical—Santosh Kumar Bhattacharyya Engineering at the Bachelor of Engineering Examination.
14. M. N. Chakraborty Memorial Medal —For securing the highest marks—P. K. Sankaranarayanan in the paper "Electric Power Generation" at the Bachelor of Engineering Examination (Power option).
15. T. N. Deb Memorial Medal —For standing First in the paper— { Kalyan Kumar Ray, Sachinath Mitra 'Metallic Minerals' at the M. Sc. Examination in Geological Sciences.
16. Sudhakar Barman Smriti Medal —For standing First in the paper—Saibal Kanti Guha of 'Industrial Chemistry' of the Bachelor of Engineering Examination.
17. Barindra Memorial Medal —For standing First in the subjects—Virendra Kumar Bhandari Electric Power Transmission and Electric Power Distribution (Combined) at the Bachelor of Engineering Examination.

18. M. N. Chakraborty—For having secured among the—P. K. Sankara-
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the highest percentage of the
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19. Pramatha Nath Bose—For standing First in the subject—Ballabh Das
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Engineering of the Bachelor of
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(History) at the First and Inter- (Mech. Engg.)
mediate Engineering Examina- P. K. Sankara-
tions. narayanan
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I II III	I II III	I II III	I II III	I II III	I II III	I II III	I II III
7 6 2	6 6 2	3 3 —	1 3 5	9 2 4	8 12 4	— 2 1	10 17 3
31 34 —	30 34 —	8 7 —	20 10 —	34 33 —	24 26 —	30 24 —	31 29 —

Preparatory +
Degree
Post-graduate...
...
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Mathematics	Chemistry	Physics	Geological Sciences
I II III	I II III	I II III	I II III
33 22 9	29 21 15	32 21 14	29 22 17
33 22	10 —	13 9	17 15

Preparatory +
Degree
Post-graduate...
...
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Mechanical	Electrical	Civil	Chemical	Tele-Com. Eng.
I II III IV	I II III IV	I II III IV	I II III IV	I II III IV
100 107 98 84	100 95 90 67	105 101 91 34	64 59 67 62	45 39 31 —
8 5 — —	— 9 — —	2 — — —	4 6 — —	— — — —

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...
...

* Total number of students—31

† Total number of students—85

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