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MS University of Baroda

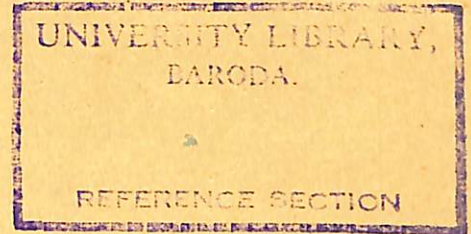
Twelfth
Annual Report

1960-61

51

NOT TO BE ISSUED

**The Maharaja Sayajirao University
of Baroda**



TWELFTH ANNUAL REPORT

1960-61



BARODA

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

TWELFTH ANNUAL REPORT, 1960-61

(1st April, 1960 to 31st March, 1961)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TWELFTH ANNUAL REPORT, 1960-61

INTRODUCTION

The idea of establishing a University at Baroda was engaging the attention of the former Government of Baroda State since the year 1909. Some schemes for the establishment of a University were framed but none of them materialised. In 1925, The Baroda University Commission with Professor A. G. Widgery as Chairman was appointed. It made out a strong case for the immediate establishment of a unitary residential University at Baroda having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration. Besides the faculties, the University was to have the Institute for Oriental Studies, the Institute for Gujarati Studies, the School of Fine Arts, the School of Nursing and the School of Domestic Science. Provision was also to be made for extension courses, library movement as a University extension movement and compulsory medical examination. Circumstances, however, were not favourable to the establishment of a separate University but the idea was not given up. The following institutions for higher education were established in Baroda during two decades that followed :

1. The Secondary Teachers' Training College in 1935
2. The Sayaji Golden Jubilee Science Institute in 1937
3. The Pratapsinh College of Commerce and Economics in 1942
4. Government orders were passed for the establishment of Medical and Engineering Colleges which ultimately began functioning from 1949.

In 1947, His Highness Maharaja Sir Pratapsinh Gaekwad encouraged the idea of the University and appointed a Committee under the Chairman-

ship of Shri K. M. Munshi to offer practical suggestions for its early establishment. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended that the University should be primarily a teaching and residential University with an affiliating side to accommodate mofussil colleges and should institute the tutorial system of instruction. All the existing higher educational institutions including the Central Library, the Oriental Institute and the Kalabhavan were to be taken over by the University. The Committee also recommended that the Government should give a block grant of Rs. 25 lakhs annually to the University for the first five years.

The Government of Baroda in their Order No. (R) 169-39 dated the 21st February, 1949, decided to establish a residential University for Baroda. Due to the subsequent merger of the Baroda State with the State of Bombay, the Baroda Government restricted the jurisdiction of the University to the area within a radius of ten miles of the University Office. The University started working on the 30th April, 1949 with the following institutions :

(a) Constituent Institutions under the management of the University :

1. The Baroda Arts and Science College
2. The Pratapsinh College of Commerce and Economics
3. The Secondary Teachers' Training College
4. The Kalabhavan and the Engineering College
5. The Music College
6. The Oriental Institute

(b) Constituent College managed by the then Government of Bombay :

7. The Baroda Medical College

(c) Constituent recognised Institutions managed by the then Government of Bombay :

8. The Baroda Museum and Picture Gallery
9. The Baroda Sanskrit Mahavidyalaya

By June, 1950 the institutions taken over were re-organised into six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, Technology and Engineering. The First Year and the Intermediate classes in Arts and Commerce were organised into a separate institution called the Intermediate College. Three new Faculties of Fine Arts, Home

Science and Social Work were also started from June, 1950. The management of the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the Old Baroda High School were taken over by the University from the then Government of Bombay in 1951. The University continued to follow the Bombay University courses and the standards of admissions, examinations, etc. in the old Faculties during the academic years 1949-50 and 1950-51. During this period, new courses and standards of admissions and examinations were prescribed and they were introduced year after year from June, 1951 onwards. The first examinations of the University were held in March-April, 1951.

Since then the Faculties have made considerable progress. The old courses have been thoroughly revised special emphasis being laid on tutorials and home-assignments consistent with the special requirements of a teaching University. At the same time proper arrangements were made for the starting of new departments and courses, provision of adequate staff, improving old buildings and providing new buildings and sanctioning the necessary grants for library, equipment and contingent expenditure. A new institution called the Polytechnic to conduct diploma courses in Civil, Electrical and Mechanical Engineering was started in the year 1957-58. The Intermediate College was discontinued from the year 1958-59 and instead the Preparatory Unit was started and it conducts Preparatory Courses in Arts, Science and Commerce. The developments during the preceding years are described in the eleven Annual Reports published so far. This twelfth Annual Report covers the period from 1st April, 1960 to 31st March, 1961 and is submitted to the Senate in accordance with Section 24(2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

CHAPTER I—GENERAL

1. Institutions in the University

Constituent and Recognised Institutions (under Sections 42 and 69 of the Act):

- (1) (a) Faculty of Arts: Provides courses leading to the degrees of B.A. and M.A. and guidance in research for the Ph.D. degree. It also provides a Post-graduate course leading to the Diploma in Library Science.
- (b) Oriental Institute: Provides facilities for research work in Sanskrit and Ancient Indian Culture and undertakes publication work in Gujarati, Marathi and Sanskrit.
- (c) Baroda Sanskrit Mahavidyalaya: Provides courses leading to the degrees of 'Shastri', 'Acharya' and guidance for research for the degree of 'Vachaspati', the diploma of 'Visharad' and the certificates of 'Pauranic' and 'Upadhyaya'.
- (2) Faculty of Science: Provides courses leading to the degrees of B.Sc. and M.Sc. and guidance in research for the Ph.D. degree. It also provides a one-year Pre-Medical course.
- (3) Faculty of Education and Psychology: Provides courses leading to the degrees of B.Ed., M.Ed., B.A. (Psychology) and M.A. (Psychology) and guidance in research for the Ph.D. degree. The Faculty also provides instruction for the courses leading to Post-graduate diplomas in (i) Educational Administration, (ii) Guidance and Counselling and (iii) Applied Linguistics and Under-graduate diploma in Teaching. The University Experimental School is attached to the Faculty for experiments in Education and Psychology and conducts classes from Standard I to Standard XI leading to the examination for the Secondary School Certificate of the Gujarat State.
- (4) Faculty of Commerce: Provides courses leading to the degrees of B.Com. and M.Com., Post-graduate diplomas in (i) Banking and (ii) Co-operation, Under-graduate diploma in Co-operation and guidance in research for the Ph.D. degree.

- (5) (a) Faculty of Medicine (The Medical College): Provides courses leading to the Degrees of M.B.B.S., M.D., M.S., M.Sc. and Ph.D. and Post-graduate diplomas in D.O., D.A., D.L. & O., D.M.R. & E., D.Ped., D.V. & D., T.D.D., D.C.P. and D.G.O. The College is managed by the Government of Gujarat.
- (b) Sheth Ujamshi Pitambardas Ayurvedic Research Unit: Provides facilities for research in Ayurveda.
- (6) (a) Faculty of Technology and Engineering: Provides courses leading to the degrees of B.E. and M.E. (Civil, Mechanical and Electrical), B.Text. (Eng.), B. Text. (Tech.) and B. Arch., the diplomas in Textile Chemistry and Textile Technology and the certificate courses for Turners and Fitters, Wiremen, Carpentry, Dyeing and Weaving and guidance in research for the Ph.D. degree in Textile Chemistry.
- (b) Polytechnic: Provides courses leading to the diplomas in Civil, Electrical and Mechanical Engineering.
- (7) (a) Faculty of Fine Arts: Provides courses leading to the degrees of B.A. (Fine) and M.A. (Fine), Post-diploma and diploma courses in Painting, Sculpture and Applied Arts, Post-graduate diploma course in Museology, diploma courses in Textile Design and certificate courses in Photography, Lithography, Pottery, Wood-work, Bronze-Casting and Process and Block-Making.
- (b) College of Indian Music, Dance and Dramatics: Provides courses leading to the degrees of B.Mus. and M.Mus. and diplomas in Music (Vocal and Instrumental), Dance and Dramatics, an advance diploma course in Dance and a three year S.S.C. course in Vocal Music.
- (8) Faculty of Home Science: Provides courses leading to the degrees of B.Sc. (Home) and M.Sc. (Home) and the Post-graduate diploma in Nursery School Education. The Chetan Balwadi with a Kindergarden class is also attached to the Faculty for experiments and observations in Child Development.

- (9) Faculty of Social Work: Provides a Post-graduate course leading to the degree of M.S.W.
- (10) Preparatory Unit: Provides courses leading to the Preparatory examinations in Arts, Science and Commerce.
- (11) The Museum and Picture Gallery (managed by the Government of Gujarat):

2. Number of Students in the University

The following statements show the number of students in the University and the number of non-University students at the commencement of the year:

Statement showing the number of students in the University at the commencement of the year 1960-61

Institutions	*Post-graduates courses		Degree courses		Diploma courses		Total		Grand Total 1960-61	Grand Total 1959-60	Grand Total 1958-59
	Men	Women	Men	Women	Men	Women	Men	Women			
	2	3	4	5	6	7	8	9	10	11	12
1 Faculty of Arts	138	60	548	298	—	—	686	358	1,044	1,129	1,031
2 Faculty of Science.. ..	168	18	423	66	—	—	591	84	675	657	562
3 Faculty of Education and Psychology	95	27	75	83	31	10	201	120	321	329	289
4 Faculty of Commerce	75	2	881	15	7	—	963	17	980	937	665
5 Faculty of Medicine	55	7	248	57	—	—	303	64	367	389	407
6 Faculty of Technology and Engineering	20	—	1,418	20	257	—	1,695	20	1,715	1,609	1,592
7 Faculty of Fine Arts	19	—	66	14	160	†10	145	24	169	148	119
8 Faculty of Home Science.. ..	—	14	—	322	—	—	—	336	336	307	243
9 Faculty of Social Work	57	19	—	—	—	—	57	19	76	62	65
10 Preparatory Unit	—	—	1,081	260	—	—	1,081	260	1,341	1,270	1,230
11 College of Indian Music, Dance and Dramatics	2	2	22	16	—	—	24	18	42	36	38
12 Baroda Sanskrit Mahavidyalaya	4	—	5	1	20	2	29	3	32	34	42
13 Polytechnic.. ..	—	—	—	—	912	4	912	4	916	819	575
Total	633	149	4,767	1,152	1,287	26	6,687	1,327	8,014	7,726	6,858

* Includes Ph.D. and Master's degree and Post-graduate diploma students.

† Includes Post-diploma students also.

Statement showing non-University students at the commencement of the year 1960-61

Institution	Men	Women	Grand Total 1960-61	Grand Total 1959-60	Grand Total 1958-59
(a) Diploma Courses :					
1 College of Indian Music, Dance and Dramatics	271	153	424	326	480
(b) Certificate Courses :					
1 Faculty of Technology and Engineering	210	—	210	191	155
2 Faculty of Fine Arts	13	7	20	18	16
3 Baroda Sanskrit Mahavidyalaya ..	30	8	38	44	54
(c) S.S.C. Courses :					
1 University Experimental School.. ..	243	180	423	398	393
(d) Nursery Courses :					
1 Chetan Balwadi	25	35	60	60	60
2 Kindergarten	13	12	25	25	25
Total	805	395	1,200	1,062	1,183

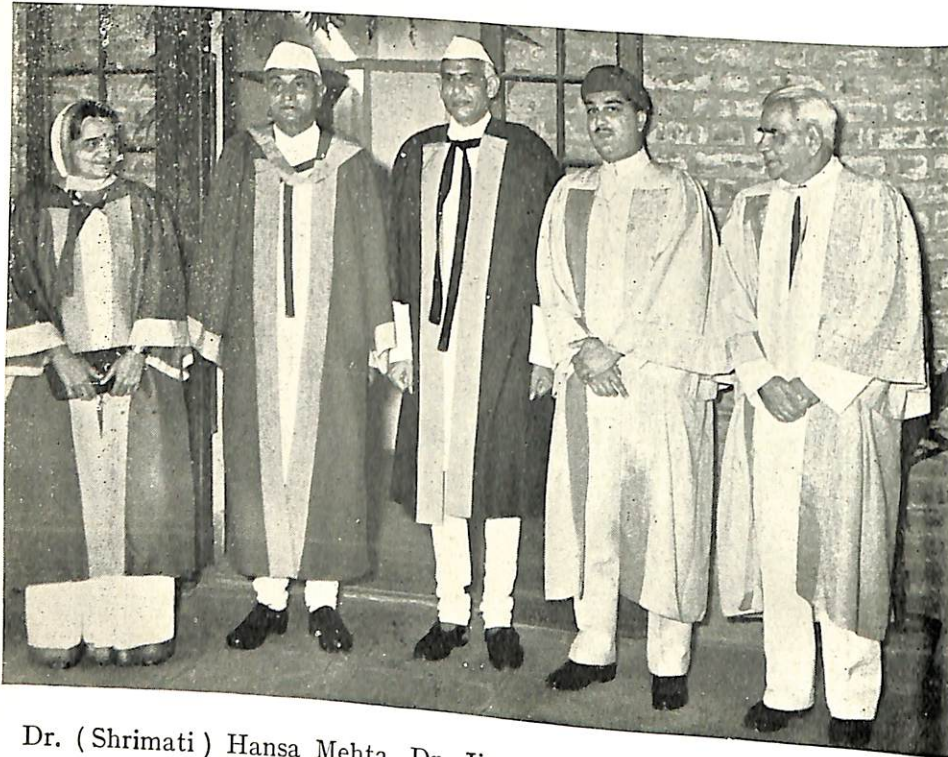
3. Special features of the year :

(1) Progress of important Research Projects :

Several departments of the University are engaged in research work. 189 students registered for Ph.D. degree and 15 for M.Ed. degree by research in previous years and 28 registered this year for the Ph.D. degree and several teachers carried on research work.

(A) The following research projects financed by the Government of India, Planning Commission, University Grants Commission, State Government or other outside bodies like I.C.M.R., C.S.I.R., etc. are in progress :

<i>Faculty/ Department</i>	<i>Research Scheme</i>	<i>Name of the Financing Body</i>
FACULTY OF ARTS		
<i>Hindi</i>	Exploration of Hindi Literary Wealth of Gujarat	University Grants Commission and the State Government
<i>History</i>	Socio-Historical Survey of the Muslim Population of Gujarat	University Grants Commission and the State Government
<i>Sociology</i>	Functional and Dysfunctional Aspect of the Working of Community Development Project in Gujarat	Central Institute of Studies and Research in Community Development, Mussoorie
<i>Economics</i>	Socio-Economic Survey of Sarasvani Village	Director of Education, State Government
<i>Agricultural Economics</i>	Rural Economic Change and Community Development with reference to Padra Block of Baroda	Ministry of Community Development and Co-operation, Government of India
FACULTY OF SCIENCE		
<i>Bio-Chemistry</i>	Studies in Human Lactation	Indian Council of Medical Research
<i>Physics</i>	Optical Studies on Etched Surfaces of Metal and Alloy Crystals	Council of Scientific and Industrial Research
FACULTY OF EDUCATION AND PSYCHOLOGY		
	(i) Vocational and Educational Guidance	Ministry of Education, Government of India
	(ii) Construction and Standardisation of Achievement Tests	Ministry of Education, Government of India



Dr. (Shrimati) Hansa Mehta, Dr. Jivraj N. Mehta, Dr. K. L. Shrimali, the Chancellor and the Vice-Chancellor

Faculty/ Department	Research Scheme	Name of the Financing Body
	(iii) Inquiry into the Psychological Factors related to Adolescent Adjustment	Indian Council of Medical Research
	(iv) Evaluation of Establishment of Multi-purpose Schools	Director of Education, Government of Gujarat, Ahmedabad

FACULTY OF COMMERCE

	(i) A Study of Management Pattern of Co-operatives in Community Development area of Baroda District	Central Institute of Studies and Research in Community Development, Mussoorie
	(ii) Co-operative Credit Movement in Sinor Mahal (A study in problems of over-lapping co-operative structure)	Baroda Central Co-operative Bank, Baroda

FACULTY OF TECHNOLOGY AND ENGINEERING

Applied Mechanics Department	Expansive soil research project	Collaboration with the Engineering Research Institute, Gujarat State
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FACULTY OF SOCIAL WORK

	(i) Problems of Working Mothers in Baroda City	University Grant Commission
	(ii) Survey of the Graduates of the Schools of Social Work	University Grants Commission

(B) The following research schemes financed by the University are in progress:

Faculty/ Department	Research Scheme
FACULTY OF ARTS	
Economics	Survey of Consumers' Finances

Faculty/ Department	Research Scheme
Sanskrit	A fresh Interpretation and Translation of Rgveda with special reference to Book IX i.e. Soma Mandala

FACULTY OF SCIENCE

Bio-chemistry	Biosynthesis of Carotenoids
Botany	(i) Flora of Pavagadh Hills (ii) Studies on the Isolation of Suitable Algae required for Sewage Purification (iii) Effect of Growth-promoting Substances on Plants
Chemistry	(i) Interaction of sodium hydroxy methane sulphate with substituted amides of acetoacetic acid, etc. (ii) Effect of Structure on Transition Temperatures of Mixed Liquid Crystals (iii) Mesomorphism and Chemical Constitution (iv) Synthesis and Applications of Ion Exchange Compounds (v) Metal Chelates of Oximes
Geography	Transport and the Rise of Towns in Gujarat
Physics	Heat Transfer under Free Convection
Statistics	Wastage and Stagnation in Universities
Zoology	Histophysiological Studies on the Diaphorogon

FACULTY OF EDUCATION AND PSYCHOLOGY

Psychology	Draw-a-man Test
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FACULTY OF COMMERCE

Banking	Survey of Banking Habits in Baroda City
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FACULTY OF TECHNOLOGY AND ENGINEERING

Civil Engineering	Study of properties of road stone aggregates of Gujarat area
Applied Mechanics	Swelling Pressure in Expansive Soils
Mechanical Engineering	Investigation of factors of stress concentration in bars with sharp grooves and fillets intension, photoelastically
Geology	Structural investigation of high grade metamorphic roads

FACULTY OF SOCIAL WORK

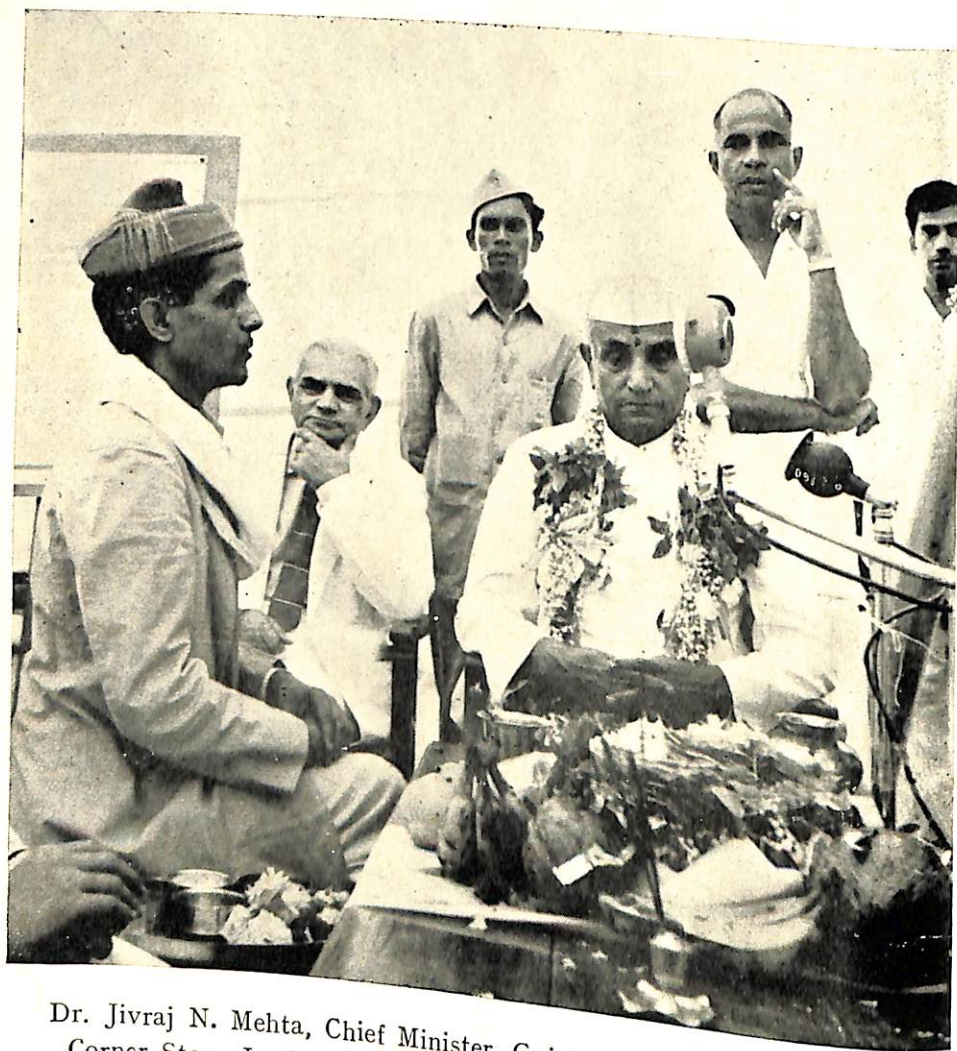
Mental Hygiene and Psychiatric Clinic	A study of the Mental Illness as reflected in the cases closed between July, 1958 and March, 1960
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(2) Important Events

- (i) The following new post-graduate courses were started in the University in the academic year 1960-61 :
- M.Sc. in Geology
 - Post-graduate Diploma in Co-operation
 - M.S.—Branch III—Orthopaedics
- (ii) The inauguration ceremony of the Post-graduate Diploma Course in Co-operation was performed by Nawab Mehdi Nawaz Jung, Governor of Gujarat on the 10th August, 1960.
- (iii) A Special Convocation was held on the 15th October, 1960 in the University Gardens when the Honorary degree of Doctor of Science was conferred on Dr. Jivraj N. Mehta, Chief Minister, Gujarat State. This was followed by the Tenth Annual Convocation. Dr. K. L. Shrimali, Minister for Education, Government of India delivered the Convocation Address.

The following degrees and diplomas were conferred on that day :

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
1	Ph.D. (Arts)	2	—	2
2	Ph.D. (Science)	1	4	5
3	Ph.D. (Education)	3	3	6
4	M.D.	2	2	4
5	M.S.	1	2	3
6	M.A.	37	19	56
7	Acharya	3	—	3
8	B.A.	231	40	271
9	Shastri	1	—	1
10	Diploma in Library Science	5	7	12
11	M.Sc. (by papers)	30	19	49
12	B.Sc.	79	26	105
13	M.Ed. (by thesis)	1	4	5
14	M.Ed. (by papers)	7	5	12
15	B.Ed.	49	65	114
16	M.Com.	9	1	10
17	B.Com.	167	64	231
18	Diploma in Banking	5	1	6
19	M.B.B.S.	37	21	58
20	Diploma in Anesthesiology	1	—	1



Dr. Jivraj N. Mehta, Chief Minister, Gujarat State, performing the Corner Stone Laying Ceremony of the University Office Building

Sr. No.	Degree/Diploma	In Person	In Absentia	Total
21	Diploma in Laryngology and Otology	2	1	3
22	Diploma in Pediatrics	1	1	2
23	Diploma in Venereology and Dermatology	2	—	2
24	B.E.	114	92	206
25	B.Text. (Engg.)	9	7	16
26	B.Text. (Tech.)	1	5	6
27	M.A. (Art Criticism)	—	1	1
28	M.Mus.	3	2	5
29	B.A. (Fine)	11	4	15
30	B.Mus.	5	—	5
31	B. Arch	15	16	31
32	Diploma in Museology	1	2	3
33	M.Sc. (Home)	2	1	3
34	B.Sc. (Home)	37	15	52
35	Diploma in Nursery School Education	1	7	8
36	M. S. W.	18	3	21
		893	440	1333

- (iv) The Corner Stone laying ceremony of the new building for the University Office was performed by Dr. Jivraj N. Mehta, Chief Minister, Gujarat State on the 16th October, 1960.
- (v) The new building of the Department of Archaeology and Ancient History was declared open on the 25th October, 1960 by Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India.
- (vi) The sixteenth meeting of the Central Advisory Board of Archaeology was held under the auspices of the University between the 25th and the 30th October, 1960. Nawab Mehdi Nawaz Jung, Governor of Gujarat delivered the inaugural address.
- (vii) The University Youth Festival (Eleventh University Week) was inaugurated by Professor K. G. Saiyidain, Officer on

Special Duty, Ministry of Education, Government of India on the 12th December, 1960.

(viii) To commemorate the Centenary of the birth of the well-known poet Dr. Rabindranath Tagore, the University has instituted a Tagore Chair in Indian Culture or Fine Arts. An amount of Rs. 4,00,000/- has been set aside for the maintenance of the Chair. The University Grants Commission sanctioned an amount of Rs. 3,00,000/-, the State Government and the University shared Rs. 1,00,000/- for the Chair. The University also started a series of lectures on Rabindranath Tagore as a part of the Centenary Celebrations and Dr. S.M. Ali (Some time Professor of Comparative Religion in Baroda, now Professor in Shantiniketan), well-known scholar of Bengali literature and writer delivered the three lectures under this series on the 10th, 11th, and the 12th February, 1961. The subjects of the lectures were (a) The early period—Vaishnavism and its influence on Tagore, (b) The beginning of prose literature—Rammohan—Brahmo Samaj and Tagore and (c) Tagore and his Weltanschauing (comprehensive view and philosophy of life).

(ix) A Supplementary Convocation for conferring degrees and diplomas was held in the Central Hall, Faculty of Arts on the 26th March, 1961. Dr. Jyotindra M. Mehta, Vice-Chancellor presided.

The following degrees and diplomas were conferred on that day:

Degree/Diploma	In Person	In Absentia	Total
1 Ph.D. (Arts)			
2 Ph.D. (Science)	2		2
3 M. D.	1	1	3
4 M. S.	1	—	1
5 B. A. (Special)	—	4	5
6 B.Sc.	14	2	2
7 M.Ed. (by Thesis)	7	10	24
	—	9	16
		1	1

Degree/Diploma	In Person	In Absentia	Total
8 B.Com.	12	10	22
9 M.Sc. (in Medical Subjects)	1	1	2
10 M. B. B. S.	17	11	28
11 D. A.	—	2	2
12 D. L. & O.	—	1	1
13 D. G. O.	—	1	1
14 B. E.	23	42	65
15 M.Sc. (Home)	—	1	1
16 M. S. W.	—	5	5
Total	78	101	179

4. Changes in the teaching staff

(1) Appointments on existing posts:

The following appointments were made to some of the posts which were vacant or which fell vacant during the year:

FACULTY OF ARTS

Readers: Dr. K. C. Panchanadikar, Dr. (Smt.) J. M. Panchanadikar and Sarvashri R. N. Mehta, D. D. Mahulkar and K. S. Desai

Lecturers: Sarvashri R. J. Modi, K. Hegde, J. N. Sharma, N. N. Buch, J. D. Birjepatil, M. V. Chaturvedi, B. S. Kamble and Dr. B. V. Shah

FACULTY OF SCIENCE

Reader: Dr. R. V. Shah

Lecturers: Shri R. C. Patel and Dr. R. M. Naik.

FACULTY OF EDUCATION AND PSYCHOLOGY

Lecturers: Sarvashri N. S. Pathak and J. J. Mody

FACULTY OF COMMERCE

Reader: Dr. K. N. Naik

Lecturers: Sarvshri R. B. Pandit and G. R. Shah

FACULTY OF TECHNOLOGY AND ENGINEERING

Professor: Shri N. A. Shah

Readers: Shri R. C. Patel, Dr. S. S. Merh, Dr. R. T. Shah

Lecturers : Sarvashri M. M. Kadia, N. N. Vashi, S. J. Desai S. S. Pakwasa, V. H. Shah, T. D. Patel, M. D. Desai, A. S. Phadke and S. R. Shah

FACULTY OF FINE ARTS

Lecturer : Shri R. A. Parimoo

FACULTY OF HOME SCIENCE

Lecturer : Shrimati A. B. Patel

FACULTY OF SOCIAL WORK

Professors : Shrimati I. S. Tayal and Shrimati A. M. Muzumdar

Lecturers : Sarvashri S. A. Yaleja, H. R. Chaturvedi and I. P. Shalet

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Lecturer : Shrimati A. S. Merh

(2) *Appointments to new teaching posts :*

The following appointments were made during the year on the new posts sanctioned from the 1st April, 1960 or thereafter :

FACULTY OF ARTS

Professors : Dr. M. B. Desai and Dr. A. H. Somjee

Reader : Dr. L. S. Venkataraman

Lecturer : Shri R. A. Vakil

FACULTY OF SCIENCE

Lecturers : Sarvashri S. D. Sabnis and O. P. Goyel

FACULTY OF EDUCATION AND PSYCHOLOGY

Reader : Shri B. G. Desai

Lecturers : Sarvashri K. N. Trivedi, N. D. Chhaya, P. H. Dave, and R. S. Gandhi

FACULTY OF TECHNOLOGY AND ENGINEERING

Lecturer : Shri P. J. Desai

FACULTY OF FINE ARTS

Readers : Sarvashri J. D. Patel, K. G. Subramanyan and K. B. Kapadia

Lecturer : Shri V. P. Trivedi

FACULTY OF HOME SCIENCE

Lecturers : Kumari A. H. Trivedi and Shri B. C. Barbhaiya

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

Lecturers : Sarvashri S. L. Kathak and N. B. Kikani

(3) *Teachers who ceased to be on the staff of the University :*

The following teachers left the University during the year :

FACULTY OF ARTS

Lecturers : Sarvashri I. S. Dave, G. S. Monga and A. J. Pandya

FACULTY OF EDUCATION AND PSYCHOLOGY

Lecturer : Shri M. B. Buch

FACULTY OF TECHNOLOGY AND ENGINEERING

Reader : Shri S. S. Dighe

Lecturers : Sarvashri L. C. Patel and C. Shrinivasan

FACULTY OF FINE ARTS

Lecturer : Shri P. K. Hatgokar

FACULTY OF HOME SCIENCE

Lecturers : Kumari H. Christy, Shrimati T. H. Bhagat and Shrimati K. G. Karandikar

FACULTY OF SOCIAL WORK

Lecturer : Kumari V. S. Telang.

5. **Facilities to the members of the teaching staff for further studies or research :**

(i) The following teachers who were granted facilities for further studies abroad returned to the University during the year :

S. No.	Name and Designation	Type of facility	Qualifications or Experience acquired
1	Shri D. D. Mahulkar, Reader in English	Due leave and leave without pay	Diploma in Linguistics (Edinburgh)
2	Dr. V. K. Chavda, Lecturer in History	Due leave and leave without pay	Ph.D. in History from Leeds (U.K.)
3	Dr. S. S. Merh, Reader in Geology	Study leave	Ph.D. (Structural and Metomorphic Geology) London, D.I.C. (London)
4	Dr. N. Y. Hiriyur, Reader in Applied Mechanics	Due leave and leave without pay	Dr. Ing. (Germany)

S. No.	Name and Designation	Type of facility	Qualifications or Experience acquired
5	Shri P. R. Batni, Reader in Electrical Engineering	Leave without pay	M.S. (Electric power) Illinois, U.S.A.
6	Shri S. J. Shah, Lecturer in Textile Technology	Deputed at the Swiss Federal Institute of Technology, Zurich	D.Sc. Tech. (Zurich) Dipl. (Mech. Engg.), Zurich
7	Shri K. S. Shah, Lecturer in Mechanical Engineering	Leave without pay	D.Sc. Tech. (Austria)
8	Shri S. D. Desai, Lecturer in Geology	Due leave and leave without pay	Higher training in Applied Geology in Texas University, U.S.A.
9	Shri R. M. Dave, Lecturer in Civil Engineering	Due leave and leave without pay	M.Sc. (Civil) Wisconsin, U.S.A. Grade A
10	Shri S. K. Damle, Lecturer in Applied Mechanics	Due leave and leave without pay	M.Sc. (Civil Engg. Structures) Colorado, U.S.A.

(ii) The following members of the staff who were granted facilities earlier continued their studies abroad during the year :

S. No.	Name and Designation	Type of facility	Nature of Studies
1	Shri V. C. Shah, Lecturer in Zoology	Due leave and leave without pay	Ph.D. at the Columbia University, U.S.A.
2	Shri M. S. Patel, Lecturer in Statistics	Due leave and leave without pay	University of North Carolina for higher studies in Statistics
3	Shri A. D. Pandya, Lecturer in Mechanical Engineering	Due leave and leave without pay	Post-graduate work in Machine Tool Design in U.S.S.R.
4	Miss Kalindi C. Patel, Lecturer in Home Science	Scholarship from Ford Foundation	Post-graduate studies in Home Science
5	Miss Savitri Pandit, Lecturer in Home Science	Due leave and leave without pay	Post-graduate studies in Home Science
6	Mrs. Shashikala Shinde, Demonstrator in Home Science	Scholarship from Ford Foundation	Post-graduate studies in Home Science

S. No.	Name and Designation	Type of facility	Nature of Studies
7	Miss Dhruvi D. Chhaya, Demonstrator in Home Science	Scholarship from Ford Foundation	Post-graduate studies in Home Science
8	Miss Freny Debu, Demonstrator in Home Science	Scholarship from Ford Foundation	Post-graduate studies in Home Science
9	Miss Jyoti Desai, Demonstrator in Home Science	Scholarship from Ford Foundation	Post-graduate studies in Home Science
10	Shri L. M. Padhya, Sectional Superintendent, Shrimati Hansa Mehta Library	Due leave and leave without pay	Higher Studies in Library Science and Education, Wisconsin University, U.S.A.

(iii) The following members of the staff were granted facilities during the year for further studies or visits in India or abroad :

S. No.	Name and Designation	Type of facility	Nature of Studies
1	Shri A. M. Shah, Lecturer in Sociology	Due leave and leave without pay	To avail of the fellowship offered by the Centre for Advanced Study in the Behavioral Sciences, Stanford and the Department of Anthropology, University of Chicago
2	Shri B. P. Lulla, Lecturer in Education	Due leave and leave without pay	For advanced studies in Educational Administration at the State Teachers' College Emporia, Kansas, U.S.A.
3	Shri H.J.X. Fernandis, Lecturer in Education	Due leave and leave without pay	For advanced studies in Psychometrics and Educational Psychology in U.S.A.
4	Shri M. K. S. Moorthy, Lecturer in Electrical Engineering	Leave without pay	To prosecute his studies for the Degree of M. S. in U.S.A.
5	Shri H. H. Majmudar, Lecturer in Geology	Due leave and leave without pay	To enable him to obtain the Doctorate Degree in Geology under the French Government Scholarship for Higher Studies in France

S. No.	Name and Designation	Type of facility	Nature of Studies
6	Shri M. R. Panchal, Lecturer in Electrical Engineering	Due leave and leave without pay	To enable him to go for training in Electrical Engineering under the French Government Scholarship for Teachers in Technical Institutions
7	Shri N. T. Sheth, Lecturer in Mathematics	Due leave and leave without pay	To enable him to go to U.S.A. for further studies leading to the Degree of Ph.D. in Mathematics
8	Shri M. M. Pathan, Demonstrator in Telecommunication	Due leave and leave without pay	To enable him to avail of the scholarship for higher studies in U.S.A. under T.C.M. Teachers Training Programme, 1960
9	Shri V. C. Shah, Demonstrator in Civil Engineering	—	Nominated by the University for Senior Fellowship in Civil Engineering at Roorkee under the Technical Teachers Training Programme of the Government of India
10	Shri R. L. Gandhi, Demonstrator in Applied Mechanics	—	Nominated by the University for Senior Fellowship in Civil Engineering at Roorkee under the Technical Teachers Training Programme of the Government of India
11	Shri B. N. Pancholi, Reader in Applied Arts	Due leave joining vacation	To enable him to undertake study tour of the U.K., U.S.A., and the Continent
12	Shri R. K. Parimoo, Lecturer in Art History	Leave without pay	For further studies in Art-History in U.K.

6. University Examination Results

During the period from the 1st April, 1960 to the 31st March, 1961, eleven candidates were declared qualified for the Ph.D degree. The details are as under :

Subject	Title of the thesis	Name of the candidate
1 Gujarati	A Critical Edition of Jnanagita (1616 A.D. of Narhari with a study of the life and work of the Author and the	Shri Suresh Hari-prasas Joshi

Subject	Title of the thesis	Name of the candidate
2 Sociology	Tradition of Jnan-Margi poets in old Gujarati Literature The Social Background of High School Students in Kaira District	Shri Ambalal Shiva-bhai Patel
3 Sanskrit	Brahma-Purana, A Critical Study	Kumari Surabhi Hrushikesh Trivedi
4 Zoology	A Histophysiological Study on the Adipose Tissue	Shri Jacob Eapen
5 Biochemistry	Biosynthesis of Citric Acid in Aspergillus Niger with special reference to C ₄ Acid Metabolism	Shri Arvind Purshotam Joshi
6 Statistics	On certain problems in Multivariate Analysis (Multicollinearity of Means and Power Series Distributions)	Shri Chinubhai Ghelabhai Khatri
7 Psychology	Personality Development in relation to Environment Factors-Survey Comprehensive (Synthetic) Theory, Application & Interpretation	Shri Ramniklal Manilal Shah
8 Education	A Critical Study of the Educational Philosophy of the Upanishads	Shri Shankar Madhav Divekar
9 Education	Muslim Education and Learning in Gujarat 1297-1758 A.D.	Shri Mansooruddin Abbulmajid Quraishi
10 Education	Formation, Administration & Standardization of Silent Reading Tests in Gujarati for students studying in classes VIII to XI	Shri Jamnadas Amritlal Bhagatwala
11 Education	Construction and Standardization of a Test of Social Intelligence	Shri Madhusudan Bhagwanlal Buch

The following two statements show the results of (i) March-April-May-June, 1960 and (ii) October-November, 1960 examinations :

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

Results of the University Examinations of the First Half, 1960 (March/April/May/June, 1960)

S. No.	Examination	No. Registered	No. Absent	Number appeared			Number passed												Grand Total	Percentage of Passes
				Men	Women	Total	Men						Women							
							Ist class Dist.	Class I	Class II	Class III	Class IV	Class V	Ist class Dist.	Class I	Class II	Class III	Class IV	Class V		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	Preparatory Arts	411	—	244	167	411	—	5	37	89	113	—	—	—	—	—	245	59.63		
2	First Year B. A.	442	9	245	188	433	—	5	45	68	118	—	—	—	—	—	234	54.04*		
3	Second Year B. A.	284	3	184	97	281	—	—	—	142	142	—	—	—	—	—	226	80.42*		
4	B. A. (Final Year)	316	7	204	106	310	1	7	51	113	172	—	—	—	—	—	271	87.7		
5	M. A.	76	8	60	8	68	—	7	23	18	48	—	—	—	—	—	56	82.35		
6	Acharya	3	—	3	—	3	—	—	2	1	3	—	—	—	—	—	3	100.		
7	Shastri	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.		
8	Visharad	3	—	3	—	3	—	—	—	1	1	—	—	—	—	—	1	33.33		
9	Dip. in Library Science	21	—	16	5	21	—	—	4	5	9	—	—	—	—	—	12	5.14		
10	Preparatory Science	525	5	466	54	520	—	124	221	68	413	—	—	—	—	—	460	88.46		
11	Pre-Medical	60	1	48	11	59	—	9	32	7	48	—	—	—	—	—	59	100.		
12	First Year B.Sc.	187	2	103	22	185	—	7	33	29	69	—	—	—	—	—	86	46.48*		
13	Second Year B.Sc.	176	—	159	17	176	—	—	—	100	100	—	—	—	—	—	111	63.068*		
14	B.Sc. (Final Year)—New and Old Course	135	2	122	11	133	8	10	31	47	96	1	2	2	3	8	104	78.12		
15	B.Sc. (Subs.)—Old Course	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.		
16	M.Sc.	57	1	49	7	56	—	5	16	16	41	—	—	—	—	—	48	85.71		
17	B.Ed.	118	—	97	21	118	1	7	48	38	94	—	—	—	—	—	114	97.61		
18	T. D.	27	—	18	9	27	—	—	17	17	17	—	—	—	—	—	26	96.26		

Results of the University Examinations of the First Half, 1960 (March/April/May/June, 1960)

S. No.	Examination	No. Registered	No. Absent	Number appeared			Number passed												Grand Total	Percentage of Passes
				Men	Women	Total	Men						Women							
							Ist class Dist.	Class I	Class II	Class III	Class IV	Class V	Ist class Dist.	Class I	Class II	Class III	Class IV	Class V		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
19	M.Ed.	12	—	11	1	12	—	—	8	3	11	—	—	—	—	—	12	100.		
20	Dip. in Child Development & Child Psychology	19	—	18	1	19	—	—	—	1	1	—	—	—	—	—	12	89.47		
21	Dip. in Co-operation	5	—	5	—	5	—	—	—	4	4	—	—	—	—	—	4	80.		
22	Preparatory Commerce	475	1	465	9	474	—	4	83	213	300	—	—	—	—	—	306	64.56		
23	First Year B.Com	437	5	427	5	432	—	5	53	112	170	—	—	—	—	—	174	40.28		
24	Second Year B.Com	255	5	249	1	250	—	—	151	151	151	—	—	—	—	—	152	60.5*		
25	B.Com. (Final year)	242	6	235	1	236	—	—	54	132	187	—	—	—	—	—	188	79.66		
26	B.Com. (Under O.478)	20	1	14	5	19	—	—	—	12	12	—	—	—	—	—	17	89.47		
27	B.Com. (Under O.479)	4	—	4	—	4	—	—	—	4	4	—	—	—	—	—	4	100.		
28	M.Com.	19	1	18	—	18	—	—	3	7	10	—	—	—	—	—	10	55.5		
29	Dip. in Banking	11	1	10	—	10	—	—	—	6	6	—	—	—	—	—	6	60.		
30	First M.B., B.S.	19	—	17	2	19	—	—	—	11	11	—	—	—	—	—	11	57.8		
31	Second M.B., B.S.	39	—	36	3	39	—	—	—	21	21	—	—	—	—	—	24	61.5		
32	Third M.B., B.S.	57	—	52	5	57	—	—	—	37	37	—	—	—	—	—	42	73.6		
33	M.S. (Br. I)—Surgery	4	—	4	—	4	—	—	—	1	1	—	—	—	—	—	1	25.		
34	M.D. (Br. I)—Medicine	4	—	4	—	4	—	—	—	1	1	—	—	—	—	—	1	25.		
35	M.D. (Br. II)—Pathology	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.		
36	M.D. (Br. III)—Pharmacology	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.		
37	D. A.	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.		
38	D. V. & D.	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.		
39	D. L. & O.	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.		
40	D. Ped.	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	100.		
41	M. Sc. (in Medical sub.)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.		
42	F. Y. Dip. (CME)	403	6	396	1	397	—	48	111	167	326	—	—	—	—	—	327	82.37		
43	S. Y. Dip. (CME)	240	—	240	—	240	—	27	100	95	222	—	—	—	—	—	222	92.50		
44	Final Year Dip. Civil Engineering.	115	—	115	—	115	—	11	52	44	107	—	—	—	—	—	107	93.04		

Results of the University Examinations of the First Half, 1960 (March/April/May/June, 1960.

J	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
45	Final Year Dip. Mech. Engg	87	—	87	—	87	—	—	39	22	79	—	—	—	—	—	79	90.80
46	Final Year Elect. Engg.	54	—	54	—	54	—	7	12	17	36	—	—	—	—	—	36	66.66
47	-do- Text. Tech.	33	1	32	—	32	—	5	14	9	28	—	—	—	—	—	28	87.50
48	-do- Text. Chem.	54	—	54	—	54	—	6	23	21	50	—	—	—	—	—	50	92.59
49	F. E. (CME/TeIt)-New course	326	2	322	2	324	7	27	127	89	250	—	—	—	1	251	76.99	
50	S. E. (CME/TeIt) -do-	287	—	286	1	287	10	22	140	53	225	—	—	1	—	—	226	78.74
51	S. E. (CME/TeIt) under 0.635	45	1	44	—	44	—	—	—	43	43	—	—	—	—	43	79.73	
52	S. E. (CME/Te)-old course	13	—	13	—	13	—	—	—	9	9	—	—	—	—	—	9	69.23
53	T. E. (Civil)	89	—	88	1	89	3	9	48	6	66	—	—	—	—	—	66	75.28
54	T. E. (Mech.)	71	—	71	—	71	3	8	32	12	55	—	—	—	—	—	55	77.46
55	T. E. (Elect.)	65	—	65	—	65	2	6	16	15	39	—	—	—	—	—	39	60.
56	T. Text. (Engg.)	11	—	11	—	11	—	—	5	4	9	—	—	—	—	—	9	81.81
57	T. Text. (Engg.) old course	11	—	11	—	11	—	—	9	1	11	—	—	—	—	—	11	100.
58	T. Text. (Tech.) -do-	2	—	2	—	2	1	—	1	—	2	—	—	—	—	—	2	100.
59	B. E. (Civil)	101	—	101	—	101	—	6	65	15	86	—	—	—	—	—	86	85.15
60	B. E. (Mech.)	76	—	76	—	76	3	14	45	5	67	—	—	—	—	—	67	88.85
61	B. E. (Elect.)	55	—	55	—	55	5	6	34	2	47	—	—	—	—	—	47	85.45
62	B. Text. (Engg.)	16	—	16	—	16	2	2	13	1	16	—	—	—	—	—	16	100.
63	B. Text. (Tech.)	6	—	6	—	6	3	—	3	—	6	—	—	—	—	—	6	100.
64	Elem. Arch.	52	—	50	2	52	—	—	18	27	—	—	—	—	—	—	28	53.85
65	Int. Arch.	47	—	47	—	47	1	4	26	13	44	—	—	—	—	—	44	93.40
66	B. Arch.	56	—	54	2	56	—	1	32	9	42	—	—	—	—	—	44	78.57
67	M. E. (Highway & Bridge Engg.)-Part I	3	—	3	—	3	—	—	3	3	3	—	—	—	—	—	3	100.
68	M. E. (Irrigation & Hydraulics)-Part I	3	—	3	—	3	—	—	2	2	—	—	—	—	—	—	2	66.66

Results of the University Examinations of the First Half, 1960 (March/April/May/June, 1960).

I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
69	M. E. (Public Health Engg.) Part I & II	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.
70	M. E. (M)-Internal Combustion Engg. (Part I)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.
71	M. A. Art Criticism	1	—	1	—	1	—	@1	—	—	1	—	—	—	—	—	1	100.
72	B. A. (Fine)-Painting	11	—	9	2	11	—	—	—	8	8	—	—	—	1	—	9	81.81
73	B. A. (Fine)-Sculpture	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.
74	B. A. (Fine) Applied Arts	7	—	7	—	7	—	—	—	3	3	—	—	—	—	—	3	42.85
75	Dip. in Painting	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.
76	Dip. in Applied Arts	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.
77	Dip. in Textile Design	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.
78	M. Mus.	7	—	2	2	7	—	—	—	—	—	—	—	—	5	—	5	71.43
79	B. Mus.	9	—	5	4	9	—	—	—	3	3	—	—	—	2	—	5	55.55
80	Post Dip. Course in Dance	2	—	1	1	2	—	—	1	—	1	—	—	—	1	—	2	100.
81	Dip. in Music	26	—	15	11	26	—	—	—	5	7	—	—	2	5	—	14	53.84
82	Dip. in Dance	2	—	6	—	6	—	—	—	2	5	—	—	—	—	—	2	100.
83	Dip. in Dramatics	6	—	4	—	6	—	—	—	2	5	—	—	—	—	—	5	83.33
84	Dip. in Museology	4	—	4	—	4	—	—	—	2	3	—	—	—	—	—	3	75.
85	B. Sc. (Home)	52	—	52	—	52	—	—	—	—	—	—	@4	21	%27	52	100.	
86	M.Sc. (Home)	3	—	—	—	3	—	—	—	—	—	—	—	3	%5	3	100.	
87	Dip. in Nursery School Education	8	—	—	—	8	—	—	—	—	—	—	—	—	—	—	8	100.
88	Ph. D. (Arts)	4	—	4	—	4	—	—	—	4	4	—	—	—	—	—	4	100.
89	Ph. D. (Science)	5	—	4	—	5	—	—	—	4	4	—	—	—	1	—	5	100.
90	Ph. D. (Edu.)	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.
91	Ph. D. (Psy.)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.
92	M. Ed. (Thesis)	4	—	4	—	4	—	—	—	4	4	—	—	—	—	—	4	100.
93	M. S. W.	19	—	15	—	19	—	—	—	14	14	—	—	—	4	—	18	94.73

* Excluding the A.T.K.T. benefits @ A. Grade % B. Grade % C. Grade

7. Finances of the University

(1) *Endowments received during the year :*

The Syndicate accepted the following new endowments :

(a) **Shrimati Kokilaben and Shri Markandray Vinayakray Desai B.A. (Sanskrit) Gold Medal Fund :**

The Syndicate accepted the donation of Rs. 5,000/- from Shri Kulendu M. Desai for awarding a gold medal at the Annual Convocation to the candidate securing the highest number of marks with at least II Class, and offering Sanskrit Special at the B.A. examination held by the M. S. University of Baroda. In absence of such candidate the gold medal will be awarded to a candidate securing the highest number of marks with at least II Class at the B.A. examination held by the M. S. University of Baroda irrespective of the subjects he offers at the B. A. examination.

(b) **Silver Jubilee Gold Medal Fund of the Faculty of Education and Psychology :**

The Syndicate accepted the donation of Rs. 5,000/- from the Dean, Faculty of Education and Psychology for awarding a gold medal at the Annual Convocation to the candidate who stands first and secures at least I Class at the Bachelor of Education Degree examination conducted by the M. S. University of Baroda in March/April.

Provided further that when the Shrimati Hansa Mehta Gold Medal is awarded in the Faculty of Education and Psychology, this medal be awarded to the candidate who stands second provided he has secured at least a I Class.

(c) **Dr. Manilal Lallubhai Parikh Gold Medal Fund :**

The Syndicate accepted the donation of 30 Second Preference Shares of Tata Iron and Steel Co. Ltd., yielding 7½% interest, from Shrimati Ruxamani Manilal Parikh and members of the family of the late Dr. Manilal Lallubhai Parikh, for awarding a gold medal at the Annual Convocation to the candidate of the regular batch who passes in the whole final M.B., B.S. examination at the first attempt and stands first in the subject of Medicine.

(d) **Shri Jalaram (Virpur) Prashasti Trust Fund :**

The Syndicate accepted the donation of Rs. 1,000/- from Shri Jalaram (Virpur) Prashasti Trust, Virpur, for purchase of books for the use of the Library of Baroda Sanskrit Mahavidyalaya, Baroda.

(e) **Professor M. B. Dave Gold Medal in Architecture :**

The Syndicate accepted the donation of Rs. 5,000/- from Professor M. B. Dave, University Architect and Head of the Department of Architecture of the University for awarding a gold medal at the Annual Convocation to a student of Architecture who passes his final B. Arch. Degree examination conducted by the M. S. University of Baroda in March-April at the first attempt in I Class and obtains the highest marks in the subject of Design, with minimum of I Class marks in Design.

(f) **Dr. (Smt.) Indumati Thakorbbhai Patel Gold Medal in Surgery Fund :**

The Syndicate accepted the donation of 30 Second Preference Shares of Tata Iron and Steel Co. Ltd., yielding 7½% interest from the Medical Examination Board of the University, for awarding a gold medal at the Annual Convocation to the student of the regular batch, who passes the whole final M.B., B.S. examination at the first attempt and stands first in the subject of Surgery.

(2) Capital Accounts :

Receipts and payments for the year ended 31st March, 1961 (i.e. from the 1st April, 1960 to the 31st March, 1961) (Subject to Audit)

I. UNIVERSITY GENERAL FUND

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Interest			
Advance rent received from the Ford Foundation for 5 Professors' quarters and 5 garages	48,150=06	<i>Building Works :</i> Water supply scheme in the University campus	34,497=41
Contribution of the Faculty of Technology and Engineering Students' Association towards the construction of the building of Non-Resident Students' Centre	60,000=00	Building for the 18th Gujarat Engineering Platoon	3,243=75
Balance grant from the University Grants Commission towards the construction of the Hall of Residence (No. II) for women students	15,000=00	Building for the 9th Gujarat Girls Troops Home Management House No. II	191=74
Grant from the University Grants Commission and the State Government towards the additional expenditure on the building of the Extension of the Department of Psychology	1,250=00	Building for the 3rd Gujarat Battalion NCC University Office Building	51=14
Loan from the Government of India, Ministry of Scientific Research and Cultural Affairs, New Delhi towards the construction of the Hall of Residence (No. VI) for men students under the Expansion of the Faculty of Technology and Engineering	2,246=12	Hall of Residence for men students (No. VI)	45,421=50
		Extension of canteen for men students	1,58,110=83
		Readers' quarters (Polytechnic Hostels)	6,194=13
		Lecturers' quarters (near Polytechnic Hostel)	28,718=14
		Compound wall for the building of the Press	17,625=37
		Extension of the Press Building	39,527=64
		Compound wall to the North East of Tara Nivas	16,223=16
		Construction of 5 Professors' quarters and 5 garages for Professors coming through the Ford Foundation	2,166=17
		Hall of Residence for Polytechnic No. I	11,035=13
		Hall of Residence for Polytechnic No. II	• 136=50
		Hall of Residence for Polytechnic No. III	3,35,710=82
		Cycle Sheds in Baroda College Area	4,08,521=91
	4,04,500=00		4,58,419=52
			2,088=67

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Receipts and payments for the year ended 31st March, 1961 (Contd.)

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Loan from the Government of India, Ministry of Scientific Research and Cultural Affairs, New Delhi, towards the construction of the three Halls of Residence for 450 students under the Expansion Scheme of Diploma Courses in Engineering (Polytechnic)	12,00,000=00	Cycle Sheds for the Polytechnic	12,491=25
Adjustment of expenditure on Library Building	40=08	Excess expenditure on buildings over grant from the University Grants Commission and the State Government :	
Opening balance as of the 1st April, 1960	9,14,564=08	Building of the Department of Archaeology and Ancient History	13,852=60
Balance of the Technology and Engineering Faculty Fund as of the 31st March, 1961 transferred to the University General Fund	2,27,653=03	Central Workshop Building	444=94
Balance of the Women's Educational Trust Fund as of the 31st March, 1961 transferred to the University General Fund	14,044=38	Building of the Faculty of Commerce including Social Sciences Block	31,394=20
		Additional space to existing Science Departments	25,398=63
		Additional Wing to Social Sciences Block	9,083=26
		Air-conditioning Zoological and Botanical Laboratories	1,753=89
		Hobby Workshop Building	595=50
		Special Heavy Repairs	3,272=18
		Furniture and Equipment for the VI Hall of Residence	6,129=00
		Furniture and Equipment for three Halls of Residence for Polytechnic	59,523=83
		Deficit on the Recurring Expenditure Account for the year 1960-61	7,261=98
Total	28,87,447=75	Total	17,39,184=29
			11,48,263=46
		Closing balance as of the 31st March, 1961	
		Total	28,87,447=75

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Receipts and payments for the year ended 31st March, 1961 (Contd.)

II. TECHNOLOGY AND ENGINEERING FACULTY FUND

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Interest		Equipment for the Engineering Section	8,411=48
Adjustment of expenditure on Cold Room Building	49,959=82 42=87	Equipment for the Technology Section	44,198=05
Adjustment of expenditure on Technology Building	91=37	Advance to Sadhana Press for machinery, types, metal, furniture, etc.	18,903=27
Opening Balance as of the 1st April, 1960	3,37,070=57	Transfer to Revenue Account towards the maintenance of the Faculty of Technology and Engineering	10,000=00
		Loss on sale/transfer of securities	69,808=80
		Total	1,50,511=60
		Closing balance as of the 31st March, 1961 (Transferred to the University General Fund)	2,27,653=03
Total	3,78,164=63	Total	3,78,164=63

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III. AYURVEDIC RESEARCH FUND (Sheth U. P. Ayurvedic Research Unit)

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Interest		Amount transferred to meet the excess recurring expenditure over and above the State Government grant	26,347=37
Opening Balance as of the 1st April, 1960	36,461=23 10,98,101=96	Closing balance as of the 31st March, 1961	11,08,215=82
Total	11,34,563=19	Total	11,34,563=19

Receipts and payments for the year ended 31st March, 1961 (Contd.)

IV. POST-GRADUATE INSTRUCTION AND RESEARCH FUND

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Interest		Amount transferred to Revenue Account towards the expenditure on Research schemes	30,000=00
Opening Balance as of the 1st April, 1960	1,32,632=17 41,86,242=97	Contribution towards the establishment of the Tagore's Chair in the University	50,000=00
		Closing Balance as of the 31st March, 1961	42,38,875=14
Total	43,18,875=14	Total	43,18,875=14

V. WOMEN'S EDUCATIONAL TRUST FUND

RECEIPTS	Rs. nP.	PAYMENTS	Rs. nP.
Interest		Extension of the building of the Faculty of Home Science	31,019=03
Opening Balance as of the 1st April, 1960	3,972=54 63,509=87	Amount transferred to Revenue Account towards the maintenance of the Faculty of Home Science	1,779=00
		Amount transferred to Revenue Account for awarding scholarships in the Faculty of Home Science	700=00
		Amount transferred to Memorial and Charitable Fund Account for awarding scholarships as per conditions of the donation from the Kelavani Trust, Baroda	20,000=00
		Closing balance as of the 31st March, 1961 transferred to the University General Fund	14,044=38
Total	67,542=41	Total	67,542=41

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(3) Revenue Accounts :

Receipts and Expenditure for the
(i.e. from the 1st April, 1960 to the 31st

S. No.	Particulars	Receipts in Rs.
I	Tuition Fees and other income from Faculties and Institutions	14,84,396=68
	(A) Faculties	
	(a) Faculty of Arts	2,52,745=80
	(b) Faculty of Science	2,63,910=22
	(c) Faculty of Education and Psychology	1,06,364=50
	(d) Faculty of Commerce	2,40,734=07
	(e) Faculty of Technology and Engineering	4,53,579=28
	(f) Faculty of Fine Arts	36,247=55
	(g) Faculty of Home Science	76,125=87
	(h) Faculty of Social Work	21,728=74
	(B) Institutions	
	(a) College of Indian Music, Dance and Dramatics	31,688=74
	(b) Preparatory Unit	1,263=15
	(c) Sanskrit Mahavidyalaya	9=00
II	Examination Fees	
III	Other Fees	4,08,611=29
IV	Income from Publications	1,17,283=50
V-A	Grant from the State Government	37,049=75
V-B	Grant from the University Grants Commission and the State Government towards the increase in salaries of the teaching staff due to grade revision	22,44,097=00
		1,29,614=47

year ended 31st March, 1961
March, 1961) (Subject to Audit)

S. No.	Particulars	Payments in Rs.
I	University General Administration	2,55,311=77
II	Examination Charges	3,54,653=27
III	Deadstock and Repairs	14,514=45
IV	Publications	13,771=93
V	Information and Publicity	4,981=98
VI	Remuneration to Lecturers	3,000=00
VII	Travelling Allowance	37,143=41
VIII	Printing and Stationery	42,053=75
IX	Maintenance of Buildings and Roads	28,978=39
X	Maintenance of Gardens	18,771=51
XI	Municipal Taxes, and Law Charges	8,447=03
XII	University Contribution to Provident Fund	11,386=54
XIII	Study Leave	1,110=00
XIV	Miscellaneous	1,17,329=09
XV	Research Staff, Contingencies, Equipment, etc.	1,20,161=91
XVI	Scheme of Teaching Hindi to University Employees	1,726=38
XVII	Students' Health Centre	—
XVIII	University Guest House	6,885=16
XIX	50% Expenditure of University Grants Commission Unit	4,491=52

S. No.	Particulars	Receipts in Rs.
V-C	Grant for Three Year Degree Courses in Arts, Science and Commerce	48,000=00
VI	Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	3,00,000=00
VII	Interest on Cash Balances	36,791=29
VIII	Income from Endowments	43,359=80
IX-A	Income from Halls of Residence for Students	2,21,362=46
IX-B	Sale of admission forms for Halls of Residence	2,858=00
X	Income from use and occupations of University Quarters and Bungalows including Furniture Rent	51,100=02
XI	Income from Lease of Land	160=00
XII	Miscellaneous Income	82,902=86
XIII	Income from M. S. University of Baroda Press (Sadhana Press)	2,47,137=36
XIV	Income from M. S. University Stationery Unit	97,753=22
	Excess of Payments over Receipts i. e. Deficit	55,52,477=70
		7,261=98
	Grand Total	55,59,739=68

S. No.	Particulars	Payments in Rs.
XX	University Library	1,80,217=48
XXI	Physical Education Department	91,777=51
XXII	Department of General Education * * (Shown in the Faculty of Education and Psychology)	—
XXIII	Faculties and Institutions	36,14,672=08
	(A) Faculties	
	(a) Faculty of Arts	4,76,942=51
	(b) Faculty of Science	7,46,002=50
	(c) Faculty of Education and Psychology	3,38,615=25
	(d) Faculty of Commerce	1,47,668=48
	(e) Faculty of Technology and Engineering	8,90,112=30
	(f) Faculty of Fine Arts	2,52,743=38
	(g) Faculty of Home Science	2,35,782=37
	(h) Faculty of Social Work	1,54,133=02
	(B) Institutions	
	(a) Oriental Institute	86,011=75
	(b) College of Indian Music, Dance and Dramatics	1,97,599=18
	(c) Preparatory Unit	39,345=50
	(d) Sanskrit Mahavidyalaya	49,715=84
XXIV	M. S. University of Baroda Press (Sadhana Press)	2,56,520=61
XXV	M. S. University Stationery Unit]	1,03,867=58
XXVI	M. S. University Publications Sales Unit	1,03,266=57
XXVII	Halls of Residence for Students	2,54,699=76
	Grand Total	55,59,739=68

(4) Grants :

The following grants were received from the University Grants Commission, the Government of India, the Planning Commission, the Government of Gujarat and others during the period from the 1st April, 1960 to the 31st March, 1961.

A. Grants from the University Grants Commission :

<i>Humanities</i>		Rs.
1	Development of the Department of Archaeology and Ancient History	2,01,000
	(i) Building	72,000
	(ii) Equipment	42,000
	(iii) Staff and maintenance	87,000
2	Development of the Departments of Hindi, English and Sociology	33,600
	(i) Manuscripts and field works for Hindi Department	5,000
	(ii) Book for Hindi Department	1,600
	(iii) Books for English Department	5,000
	(iv) Staff	22,000
3	Development of the Departments of Economics and Politics	42,000
	(i) Books for Economics Department	5,000
	(ii) Books for Politics Department	25,000
	(iii) Staff	12,000
4	Project for a Socio-Historical Survey of the Muslim Population of Gujarat	10,000
	Staff and other recurring items	10,000
5	Development of the Department of Psychology	29,702
	(i) Building	1,502
	(ii) Books	10,000
	(iii) Laboratory Apparatus	11,000
	(iv) Furniture and Equipment	7,200
6	Pilot Project of a Psychological Counselling for University students	10,000
	Staff and other recurring items	10,000

<i>Humanities</i>		Rs.
7	Development of the Department of Museology Staff and Maintenance	27,900
8	Books and Journals on Humanities	50,000
9	Post-graduate Diploma Course in Cooperation	11,000
	(i) Books	5,000
	(ii) Equipment	3,000
	(iii) Staff	3,000
10	Examination Reform and Research Scheme	7,000
	(i) Staff	5,000
	(ii) Other items	2,000
11	Publication of a Critical and Illustrated Edition of Valmiki Ramayana	40,000
12	Publication of the Commentary on Paramalaghu-manjusha by Pandit K. C. Shukla	500
13	Furniture for the new building of the Faculty of Social Work	10,000
14	Furniture and equipment for the University Library	2,000
15	Additional Staff and furniture for the Grants Commission Unit	4,800
16	Establishment of a Film Club	3,750
17	Implementation of the Three Year Degree Course in the Faculties of Arts (including Psychology), Science and Commerce	48,000
	(i) Staff (Arts)	12,500
	(ii) Staff (Science)	12,500
	(iii) Staff (Commerce)	7,860
	(iv) Deficit in income of fees in the Faculty of Science during 1957-58 and 1958-59	15,140
18	Revision of Salary Scales of University Teachers	1,62,220=42
	(i) Teachers in the Faculty of Technology and Engineering and the Polytechnic	27,900 32,605=95
	(ii) Teachers in other Faculties and Institutions	1,01,714=47

<i>Humanities (Contd.)</i>		Rs.
19	Establishment of Students Aid Fund	8,756
20	Post-graduate and Research Scholarships in Humanities	12,743=66
21	New Building for the establishment of Hobby Workshop	17,000
22	New building for the establishment of Students' Health Centre	25,000
23	New building for the Department of Sociology	50,000
24	New building for the Faculty of Social Work	27,000
25	New building for establishment of Non-Resident Students' Centre	20,000
26	Construction of Staff Quarters	50,000
27	Construction of the Second Hall of Residence for Women Students	1,250
<i>Science</i>		
1	Books and Journals on Scientific and Technical subjects	40,000
2	Development for the Department of Bio-Chemistry	57,871
	(i) Books	5,000
	(ii) Equipment	46,666
	(iii) Staff	6,205
3	Equipment for the Departments of Botany, Chemistry, Physics, Statistics, Mathematics and Zoology	1,06,700
4	Additional staff in the Faculty of Science	25,066
	(i) Three Professors (Botany, Mathematics and Zoology) and one Reader (Geography)	22,861
	(ii) Reader in Physical Chemistry	2,205
5	Post-graduate Scholarships in Science	2,400
6	Travel Grants to Science Personnel	72=48
	(i) Dr. C. H. Pathak	26=06
	(ii) Dr. V. V. Mody	46=42
7	New Building for the Faculty of Science	85,000

<i>Technology and Engineering</i>		Rs.
1	Additional staff under the Development Scheme of the Faculty of Technology and Engineering	14,666
2	Additional staff and maintenance under the Expansion Scheme of Degree Courses in Engineering in the Faculty of Technology and Engineering	28,905
3	Expansion Scheme of Diploma Courses in Engineering in the Polytechnic	5,23,949=36
	(i) Building	3,03,000
	(ii) Equipment	1,00,000
	(iii) Staff and maintenance	1,20,949=36
B. Grants from the Government of India, Ministry of Education :		
1	Research in Educational and Vocational Guidance	3,500
2	Construction and Standardisation of Sets of Achievement Tests in Secondary Schools	7,969
3	Department of Extension Services	17,977
4	Deputation of Shri G. G. Dadlani for advanced training in U.S.A. under the T.C.M. Programme	66=75
5	Inter-Collegiate Youth Festival in 1960-61	5,000
6	Fellowships to French Fellows at Indian Universities/Institutions	3,395=16
C. Grant from the Ministry of Scientific Research and Cultural Affairs :		
	Excavation Work at Shamalaji	10,000
D. Grants from the Ministry of Community Development and Co-operation :		
1	Training Centre for Specialised Training of Social Education Organisers	90,600
2	Intensive Case Study of two villages by Dr. Panchnandikar	39,000
3	Study of Economic Growth in Community Development Villages by Professor M. B. Desai	38,000

4 Study of Management Pattern of Co-operatives in the Community Development area of Baroda District by Professor B. G. Shah and Dr. K. N. Naik	Rs. 31,000
E. Grant from the Planning Commission :	
1 Rural Income and Savings in Gujarat Scheme	7,170
2 Planning Forums	400
3 Observance of National Plan Day by Planning Forums	500
F. Grants from the Council of Scientific and Industrial Research :	
1 Optical Studies on Etched Surfaces of Metal Alloy Crystals	3,124=55
2 Research Fellowships	16,276=34
G. Grants from the Sangeet Natak Akademy :	
Research Projects in Music, Dance and Dramatics	2,500
H. Grants from the Education Department, Government of Gujarat :	
1 Publication of a Critical Edition of Valmiki Ramayana	15,000
2 Additional staff in the Faculty of Science (Three Professors and one Reader)	11,405=20
3 Additional staff in the Departments of Hindi, English and Sociology	28,246=11
4 Additional staff in the Departments of Economics and Politics	12,000
5 Extension of the building of the Department of Psychology	751
6 Reader in Physical Chemistry	2,205=38
7 Pilot Project of a Psychological Counselling for University Students	10,000
8 Furniture for the new building of the Faculty of Social Work	4,428
9 Improvement of the existing Printing Press	10,000

10 Department of Extension Services	Rs. 6,000																																																						
11 Excavation Work at Shamlaji	1,000																																																						
12 Scheme of Non-Official Training of Block Development Officers—Shri V. T. Krishnamachari Institute of Rural Development, Samiala	12,500																																																						
I. Grant from the Department of Agriculture and Lands, Government of Gujarat :																																																							
Staff and maintenance of the Home Science Wing	29,931=37																																																						
8. Construction Division :																																																							
(1) <i>Personnel :</i>																																																							
Shri N. B. Patel, B.E. (Civil), A.M.I.E. continued to be the University Engineer during the year under report. He was assisted by a staff of two Deputy Engineers, two Assistant Deputy Engineers, 48 Class III and 31 Class IV servants.																																																							
(2) <i>Original Works completed :</i>																																																							
The following original works were completed during the year under report :																																																							
	<table border="0"> <thead> <tr> <th rowspan="2">Description of the work</th> <th colspan="2">Expenditure on the building or work during the year</th> <th colspan="2">Total expenditure on the building or work upto the 31st March, 1961</th> </tr> <tr> <th>Rs.</th> <th>nP.</th> <th>Rs.</th> <th>nP.</th> </tr> </thead> <tbody> <tr> <td>I Faculty of Technology and Engineering :</td> <td style="text-align: center;">—</td> <td></td> <td style="text-align: center;">8,88,023=25</td> <td></td> </tr> <tr> <td>II University General Fund :</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(i) Constructing a building for the 18th Gujarat Engineering Platoon N.C.C.</td> <td style="text-align: right;">3,243=75</td> <td></td> <td style="text-align: right;">1,07,108=95</td> <td></td> </tr> <tr> <td>(ii) Constructing a building for the 2nd Gujarat Girls Troop N.C.C.</td> <td style="text-align: right;">191=74</td> <td></td> <td style="text-align: right;">86,920=85</td> <td></td> </tr> <tr> <td>(iii) Extension of Canteen for men students behind Maharshi Arvind Hall</td> <td style="text-align: right;">6,194=13</td> <td></td> <td style="text-align: right;">6,194=13</td> <td></td> </tr> <tr> <td>(iv) Compound wall for the University Press</td> <td style="text-align: right;">16,223=16</td> <td></td> <td style="text-align: right;">16,223=16</td> <td></td> </tr> <tr> <td>(v) Air-conditioning Zoology Laboratory</td> <td style="text-align: right;">5,848=39</td> <td></td> <td style="text-align: right;">5,848=39</td> <td></td> </tr> <tr> <td>III Works of Grants :</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(i) Constructing a building for the Faculty of Social Work</td> <td style="text-align: right;">2,262=46</td> <td></td> <td style="text-align: right;">3,26,298=98</td> <td></td> </tr> </tbody> </table>	Description of the work	Expenditure on the building or work during the year		Total expenditure on the building or work upto the 31st March, 1961		Rs.	nP.	Rs.	nP.	I Faculty of Technology and Engineering :	—		8,88,023=25		II University General Fund :					(i) Constructing a building for the 18th Gujarat Engineering Platoon N.C.C.	3,243=75		1,07,108=95		(ii) Constructing a building for the 2nd Gujarat Girls Troop N.C.C.	191=74		86,920=85		(iii) Extension of Canteen for men students behind Maharshi Arvind Hall	6,194=13		6,194=13		(iv) Compound wall for the University Press	16,223=16		16,223=16		(v) Air-conditioning Zoology Laboratory	5,848=39		5,848=39		III Works of Grants :					(i) Constructing a building for the Faculty of Social Work	2,262=46		3,26,298=98	
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Description of the work	Expenditure on the building or work during the year	Total expenditure on the building or work upto the 31st March, 1961
	Rs. nP.	Rs. nP.
(ii) Constructing a building for the Faculty of Commerce	1,751=31	2,91,394=20
(iii) New building for the Department of Archæology and Ancient History	1,08,011=10	2,63,852=60
(iv) Additions and alterations in the Library of the Faculty of Technology and Engineering	5,731=71	7,427=78
(v) Constructing first floor over Workshop in the Faculty of Education and Psychology	20,205=14	20,250=14
(vi) Constructing Hostel Blocks for additional 20 gramsevika trainees at the Home Science Wing	49,475=90	49,475=90
(vii) Building for Hobby Workshop	595=50	27,108=53
(3) Works in Progress:		

The following works were in progress during the year under report :

I Faculty of Technology and Engineering :		
II University General Fund :		
(i) Water supply scheme for University Campus	—	8,88,023=25
(ii) University Office Building	34,497=41	1,68,194=91
(iii) Lecturers' quarters	1,58,110=83	1,58,110=83
(iv) Extension of the building of Faculty of Home Science and Chetan Balwadi	39,527=64	39,527=64
	31,019=03	31,019=03
(v) Constructing a new building for the Third Gujarat Battalion N. C. C.	45,421=50	45,421=50
(vi) Constructing 5 Professors' Quarters and 5 Garrages for Professors from Iowa State University	136=50	136=50
(vii) Cycle shed in the compound of Commerce College	40=50	40=50
(viii) Cycle shed for the Polytechnic	12,481=25	12,481=25

Description of the work	Expenditure on the building or work during the year	Total expenditure on the building or work upto the 31st March, 1961
	Rs. nP.	Rs. nP.
(ix) Extension to the University Press Building	2,166=17	2,166=17
(x) Hall of Residence for men students No. VI	99=50	99=50
(xi) Servants quarters in the Compound of the University Office	99=50	99=50
(xii) Compound wall to the North and East of Tara Nivas	11,035=13	11,035=13
III Special Heavy Repairs :		
Realignment of approach road to Nizampura village	2,553=56	3,509=70
IV Works of Grants :		
(i) Polytechnic building	2,87,923=74	13,47,979=18
(ii) Extension of the building of the Faculty of Science	1,86,803=32	4,65,398=63
(iii) Constructing a building for Students' Health Centre	33,559=80	33,598=59
(iv) Constructing additional wing to Social Sciences Block	1,59,009=76	1,59,083=26
(v) Building of the Hall of Residence for women students No. III	40,638=57	40,638=57
(vi) Extension to the building of the College of Indian Music, Dance and Dramatics	969=00	1,32,163=54
(vii) Constructing, three hostels with Wardens' quarters near Polytechnic	9,13,915=04	12,02,652=25
(viii) Readers' quarters near Polytechnic Hostel No. I	28,718=14	28,718=14
(ix) Lecturers' quarters Near Hostel No. II	17,625=37	17,625=37
(x) Constructing first floor over Seminar Building in the Faculty of Arts	58,507=46	58,552=46
(xi) Lecturers' quarters—two Blocks of four flats each	80,981=05	80,981=05
(xii) Readers' quarters	20,075=47	20,075=47
(xiii) First floor over Painting Studio for extension of the Departments of Painting and Sculpture, Faculty of Fine Arts	24,836=08	24,836=08

Description of the work	Expenditure on	Total expendi-
	the building or work during the year	ture on the build- ing or work upto the 31st March, 1961
	Rs. nP.	Rs. nP.
(xiv) Constructing mezzanine floor and additions and alterations in the existing Exhibition Hall, Faculty of Fine Arts	17,502=10	17,502=10
(xv) Constructing a new building for Non-Resident Students' Centre at Baroda	135=37	135=37
(xvi) Extension of the Faculty of Science building for Physics and Geography Departments	33,377=44	33,377=44
(xvii) Building for General Education Centre (Grant from Ford Foundation)	1,50,621=91	5,90,688=99
(xviii) Constructing a building for the Department of Co-operation	4,858=00	4,858=00
(xix) Constructing first floor over columns on the north east wing of the Social Sciences Block and two staff rooms on the north side of the main Block	19,139=16	19,139=16

Some additional expenditure was incurred for the following works completed last year :

(i) University General Fund : Home Management House No. II	51=14	24,985=75
(ii) Special Heavy Repairs Constructing the Gymnasium Hall into living rooms on the first floor of Shrimati Sarojini-devi Hall	718=62	16,014=16

(4) *Ordinary and Special Repairs :*

Ordinary and special repairs were carried throughout the year as per requirements of the University Office and the different Faculties and Institutions. All the gardens except Botanical gardens were looked after and maintained by the Construction Division.

CHAPTER II—OFFICERS AND AUTHORITIES OF THE UNIVERSITY

1. Officers

(1) *The Chancellor :*

His Highness Maharaja Fatehsinhrao Gaekwad, Maharaja of Baroda, was the Chancellor of the University during the year.

(2) *The Vice-Chancellor :*

Dr. Jyotindra M. Mehta, M.A. (Oxon), Ph.D. (London), Bar-at-Law, continued to work as Honorary Vice-Chancellor under Statute 115 during the year. He attended various meetings in India, gave talks, delivered lectures and also presided over many social functions, some of which are mentioned below :

- (a) Attended a meeting convened by the Government of Gujarat to consider the place of English in Secondary Education, at Ahmedabad on the 26th May, 1960 ;
- (b) Attended a Conference of Vice-Chancellors and other representatives, convened by the Government of India, Ministry of Education, in the premises of the National Defence Academy at Khadakvasala, near Poona on the 15th and the 16th June, 1960 ;
- (c) Attended the Fourth Conference of the Indian National Commission for Co-operation with UNESCO in New Delhi on the 25th and the 26th October, 1960 ;
- (d) Attended the First Meeting of the State Executive Committee of University Planning Forums at the Chief Minister's Chamber in Ahmedabad on the 9th November, 1960 ;
- (e) Attended an Extra-ordinary meeting of the General Assembly of the Indian Council for Cultural Relations in New Delhi on the 11th November, 1960 ;
- (f) Presided over the Ninth Session of the Conference of the Gujarat State Secondary Teachers' Associations at Mobha Road on the 24th December, 1960 ;

- (g) Inaugurated the Training in Gliding of the 17th Gujarat Squadron at the Harni Aerodrome on the 15th January, 1961;
- (h) Attended the 36th Annual Meeting of the Inter-University Board of India and Ceylon at Dharwar on the 2nd and the 3rd February, 1961;
- (i) Delivered a Valedictory Address at the conclusion of a series of lectures on Management Development in the Federation Building on the 28th February, 1961;
- (j) Attended the Second Meeting of the State Executive Committee of University Planning Forums in Ahmedabad on the 2nd March, 1961.

(3) *The Pro-Vice-Chancellor:*

Dr. C. S. Patel, B.A., M.Sc., Ph.D. (Leeds) continued to work as the Pro-Vice-Chancellor under Statute 120. He attended the following meetings:

- (a) Meeting of the Joint Council of Management of TAIRO, Bombay on the 22nd April, 1960;
- (b) Gujarat State Industrial Research Committee at Ahmedabad on the 17th November, 1960;
- (c) Sub-Committee of the Gujarat State Industrial Research Committee at Ahmedabad on the 24th January, 1961.

(4) *Deans of Faculties:*

The following persons continued to work as Deans of the respective Faculties during the year:

Faculty	Name of the Dean
Arts	Professor C. M. Shukla, M.A. (Bom.), B.A. (Hons.) (London) (upto 30-4-1960)
	Professor I. P. Desai, M.A., Ph.D. (Bom.), (from 1-5-1960)
Science	Professor N. M. Bhatt, M.Sc., LL. B. (Bom.), Ph.D. (Edin.), F.S.S.
Education and Psychology	Professor T. K. N. Menon, B.A. (Madras), Dip. in Edu. (Leeds and Berlin), M.A. Edu. (Leeds) (upto 30-4-1960)

Faculty	Name of the Dean
Education and Psychology (Contd.)	Professor S. N. Mukerji, M.A., A.M. (Columbia), B.T., T.D. (London), Dip. Edu. (Dublin), Dip. Edu., Ed.D. (Columbia), (from 1-5-1960)
Commerce	Professor B. G. Shah, M.Com. (Bom.) (iv)
Medicine	Dr. J. D. Pathak, B.Sc., M.D., F.C.P.S. (Bom.)
Technology and Engineering	Professor P. J. Madan, B.Sc. (Eng.) (Edin.), M.Sc. (Eng.), D.I.C., M. Inst. H.E. (London), A.M.I.E. (India)
Fine Arts	Professor N. S. Bendre, B.A. (Agra), G.D. (Art) (Bom.)
Home Science	Professor (Kumari) Justina A. Singh, M.Sc. (Oregon & Kansas)
Social Work	Professor (Shrimati) Indra S. Tayal, B.S., M.S. (Oklahoma), M.S.W. (Michigan) (upto 11-8-1961)
	Professor (Shrimati) A. M. Muzmudar, B.A. (Hons.), L.T., M.A. (Chicago) (from 12-8-1960)

(5) *The Registrar:*

Shri B. K. Zutshi, M.A., LL.B. continued to work as the Registrar during the year.

(6) *Librarian:*

Dr. C. P. Shukla, M.A., B.T., M.A. (L.S.), Ph.D. continued to work as the University Librarian during the year.

(7) *Other Officers:*

Name	Designation
(i) Professor B. J. Sandesara, M.A., Ph.D.	Director, Oriental Institute
(ii) Professor R. C. Mehta, B.A.	Principal, College of Indian Music, Dance and Dramatics
(iii) Shri H. C. Mehta, M.A., B.T.	Principal, Baroda Sanskrit Mahavidyalaya
(iv) Shri K. S. Yajnik, M.A., B.T.	Head, Preparatory Unit
(v) Professor L. B. Shah, B.Sc. M.Sc. (Tech.), A.M.C.T., A.M. I.E. (upto 30-4-1960)	Principal, Polytechnic

Name	Designation
Professor C. H. Khadilkar, B.E. (Civil), A.M.I.C.E. (London), (from 1-5-1960)	Principal, Polytechnic
(vi) Shri G. P. Bhatt, M.A., B.T., M.Ed.	Principal, University Experimental School

2. Authorities

(1) The Senate :

The Senate consisted of 95 members in the beginning of the year and became 90 at the end. The following were the changes in the membership of the Senate :

(i) The Vice-Chancellors of the Universities of the State of Maharashtra ceased to be the members of the Senate from the 1st May, 1960.

(ii) Shri B. L. Mankad became an ex-officio member of the Senate on his appointment as Director of Museum and Picture Gallery.

(iii) Shri T. A. Desai, Shri C. H. Mehta, Dr. M. C. Desai and Dr. T. B. Patel became the ex-officio members of the Senate representing different departments of the Government of Gujarat.

(iv) Shri H. C. Dholakia, Professor M. S. Patel, Shri M. M. Chokshi, Professor S. M. Sen, Professor N. N. Chaudhary, Shri S. K. Majmudar, Shri S. V. Bhattbhatt and Professor S. K. Roy were elected to the Senate from the Faculties and Institutions.

(v) Shri S. S. Surana, Principal, Railway Staff College became the member of the Senate *vice* Shri M. M. Rao transferred.

(vi) Shri C. J. Sutaria ceased to be a member of the Senate on the dissolution of the Women's Educational Trust Fund.

(2) The Syndicate :

The Syndicate elected in 1957, assumed office on the 1st November, 1957. The term of the office of the Syndicate elected in September, October, 1957, ended on the 31st October, 1960. The new Syndicate elected in September-October, 1960 assumed office on the 1st November,

1960. The following persons continued to be/became the members of the Syndicate :

- (a) Dr. Jyotindra M. Mehta, Vice-Chancellor
- (b) Dr. C. S. Patel, Pro-Vice-Chancellor
- (c) Director of Education, Gujarat State (from 1-5-1960)
- (d) Dr. (Shrimati) Hansa Mehta
- (e) Dr. Jivraj N. Mehta, (upto 30-6-1960)
- (f) Dr. B. B. Yodh
- (g) Shri B. B. Joshi
- (h) Shri J. S. Parikh
- (i) Shri D. M. Parikh
- (j) Shrimati Ansuya I. Amin
- (k) Shri H. R. Desai (from 1-11-1960)
- (l) Professor T. K. N. Menon, (upto 30-4-1960)
- (m) Professor I. P. Desai (from 1-11-1960)
- (n) Professor S. N. Mukerjee (from 1-11-1960)
- (o) Professor N. M. Bhatt
- (p) Dr. T. V. Patel
- (q) Professor P. J. Madan (from 1-11-1960)



CHAPTER III—THE SENATE

1. Number of meetings

The Senate met twice during the year on the 16th October, 1960 and the 26th March, 1961.

2. Attendance

62 members attended the meeting held on the 16th October, 1960 and 63 members on the 26th March, 1961.

3. First meeting

At the meeting of the Senate held on the 16th October, 1960 the following business was transacted :

(1) Dr. (Shrimati) Hansa Mehta, Shri J. S. Parikh, Dr. B. B. Yodh, Shri D. M. Parikh, Shri H. R. Desai, Shri B. B. Joshi and Shrimati Ansuya Amin were elected to the Syndicate under section 23 (2) (v) of the Act.

(2) Professor I. P. Desai, Dean, Faculty of Arts and Professor S. N. Mukerji, Dean, Faculty of Education and Psychology were elected to the Syndicate under section 23 (2) (vi) of the Act.

(3) Professor C. C. Mehta and Professor L. B. Shah were elected to the Board of Extra Mural Studies under Ordinance 24 (6).

(4) The following Fellows were assigned to Faculty or Faculties mentioned against their names :

S. No.	Name	Faculty/Faculties
1.	Professor (Shrimati) Ammu M. Muzumdar	Social Work
2.	Shri K. S. Yajnik	Arts and Education and Psychology
3.	Professor C. H. Khadilkar	Technology and Engineering
4.	Shri M. D. Rajpal	Science
5.	Shri H. C. Dholakia	Arts
6.	Professor M. S. Patel	Education and Psychology
7.	Shri M. M. Chokshi	Commerce
8.	Professor S. M. Sen	Science and Technology and Engineering

S.No.	Name	Faculty/Faculties
9.	Professor N. M. Chaudhary	Fine Arts
10.	Shri S. K. Majmudar	Social Work
11.	Professor S. K. Roy	Technology and Engineering
12.	Shri S. S. Surana	Technology and Engineering

(5) Renewal of lapsed grants amounting to Rs. 12,861 in the revenue budget and Rs. 1,37,126 in the capital budget, and supplementary grants amounting to Rs. 1,18,120 in the revenue budget and Rs. 3,63,000 in the capital budget were sanctioned.

(6) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 10 of Hand Book Part II, 1956 were considered and passed.

(7) A proposal to institute the following new posts was considered and passed :

Faculty of Arts

Lecturer in Political Science

Faculty of Education and Psychology

1. Lecturer in Education (Temporary for one year)
2. Lecturer in Social Studies (General Education Department) (Temporary for one year)

Faculty of Technology and Engineering

1. Reader in Mechanical Engineering
2. Lecturer in Mathematics

Faculty of Fine Arts

1. Reader in Painting
2. Reader in Sculpture
3. Lecturer in Sculpture

College of Indian Music, Dance and Dramatics

1. Lecturer in Sitar
2. Lecturer in Dance (Kathak)

4. Second meeting :

At the second meeting of the Senate (Annual meeting) held on the 26th March, 1961 condolence resolutions mourning the demise of Sarvashri N. B. Katpitia and G. M. Tambe were passed.

The following business was transacted :

(1) Dr. Jyotindra M. Mehta was unanimously elected Vice-Chancellor for another period of three years from the 30th April, 1961.

(2) The following members were elected to the respective Boards of Visitors as mentioned against their names :

S. No.	Name	Board of Visitors for the
1.	Dr. R. K. Trivedi	Faculty of Science
2.	Shri M. T. Vyas	Faculty of Education and Psychology
3.	Dr. C. P. Shukla	Oriental Institute

(3) The following Fellows were assigned to the Faculty/Faculties as mentioned against their names :

S. No.	Name	Faculty/Faculties
1.	Shri L. R. Desai	Education and Psychology
2.	Shri B. L. Mankad	Fine Arts
3.	Shri T. A. Desai	Technology and Engineering
4.	Shri S. A. Patel	Technology and Engineering
5.	Dr. M. C. Desai	Technology and Engineering
6.	Dr. C. B. Patel	Science and Technology and Engineering

(4) The Annual Financial Statement comprising the revised estimates for the year 1960-61 and the estimates for the year 1961-62 were considered and passed.

(5) Statute 199 was amended to include the degree of Bachelor of Dental Surgery (B.D.S.).

(6) Amendments and additions to Ordinances and Rules mentioned in Pamphlet No. 11 of Hand Book Part II, 1956 were considered and passed.

(7) The Eleventh Annual Report and the Eleventh Annual Accounts of the University for the year 1959-60 were passed. The excess expenditure over the revised estimates for the year 1959-60 was also sanctioned.

(8) The report of the Board of Accounts for the year 1959-60 was approved.

(9) A proposal to institute the following new posts was considered and passed :

Faculty of Arts
Lecturer in Law

Faculty of Education and Psychology

1. Lecturer in Education
2. Lecturer in Social Sciences
(General Education Department)

Faculty of Social Work

Lecturer in Social Work (S.E.O.T.C.)

(10) One old post of Lecturer in Politics was upgraded to that of Reader.

(11) The proposal of Shri D. M. Parikh for reducing the amount of Rs. 1,00,000/- to Rs. 40,000/- mentioned in the Senate Resolution No. 15 dated the 26th April, 1959 in respect of starting the Faculty of Law was considered and passed.

CHAPTER IV—THE SYNDICATE

1. Number of meetings

During the year the Syndicate held ten meetings in which they considered and passed resolutions on 861 Items. Some of the important decisions are mentioned in the following paragraphs.

2. Attendance at the meetings

The following statement shows the attendance of the members at the Ordinary and Special meetings of the Syndicate during the year:

S. No.	Name	No. of meetings held	Class of meetings	Present	Absent	Remarks
1	2	3	4	5	6	7
1	Dr. Jyotindra M. Mehta, Vice-Chancellor	10	O. 5 S. 5	O. 5 S. 5	—	
2	Dr. C. S. Patel, Pro-Vice-Chancellor	10	O. 5 S. 5	O. 5 S. 5	—	
3	Director of Education or his nominee	10	O. 5 S. 5	O. 4 S. 3	O. 1 S. 2	
4	Dr. (Shrimati) Hansa Mehta	10	O. 5 S. 5	O. 2 S. 3	O. 3 S. 2	
5	Dr. Jivraj N. Mehta	2	O. 0 S. 2	O. — S. 1	O. — S. 1	Resigned from 30-6-1960
6	Dr. B. B. Yodh	10	O. 5 S. 5	O. 4 S. 4	O. 1 S. 1	
7	Shri B. B. Joshi	10	O. 5 S. 5	O. 4 S. 3	O. 1 S. 2	
8	Shri J. S. Parikh	10	O. 5 S. 5	O. 5 S. 4	O. — S. 1	
9	Shri D. M. Parikh	10	O. 5 S. 5	O. 5 S. 5	O. — S. —	
10	Shrimati Ansuya I. Amin	10	O. 5 S. 5	O. 3 S. 5	O. 2 S. —	
11	Shri H. R. Desai	5	O. 3 S. 2	O. 3 S. 2	—	Became member from 1-11-1960
12	Professor T. K. N. Menon	2	O. — S. 2	O. — S. —	O. — S. 2	Ceased to be a member from 1-5-1960

S. No.	Name	No. of meetings held	Class of meetings	Present	Absent	Remarks
1	2	3	4	5	6	7
13	Professor I. P. Desai	5	O. 3 S. 2	O. 3 S. 2	—	Became member from 1-11-1960
14	Professor S. N. Mukerji	5	O. 3 S. 2	O. 3 S. 2	—	Became member from 1-11-1960
15	Professor N. M. Bhatt	10	O. 5 S. 5	O. 5 S. 5	—	
16	Dr. T. V. Patel	10	O. 5 S. 5	O. 5 S. 5	—	
17	Professor P. J. Madan	5	O. 3 S. 2	O. 2 S. 2	O. 1 S. —	Became member from 1-11-1960

3. New developments and improvements in the existing departments

With the over-all progress of the University it was necessary to increase the strength of the University administrative personnel. A new post of an Assistant Auditor of the grade of Rs. 200-10-300 was sanctioned from the 1st April, 1960 and the grade of the Assistant Accountant was revised from Rs. 150-10-250 to Rs. 200-10-300. Temporary posts of one Head Clerk, three Senior Clerks, one Clerk and a Stenographer sanctioned last year were also continued for a further period of one year.

Arrangements for providing facilities for the teaching of Hindi to teachers were continued during the year and appointments on the post of a Part-time Instructor on Rs. 150/- per month net, a part-time clerk on Rs. 40/- per month net and part-time peon Rs. 30/- per month net were made. During the year 118 teachers were learning Hindi. Arrangements for holding the elementary examination for the first batch of candidates were made.

In the Faculty of Arts vacant posts of Readers in English and Sociology were filled up. New posts of Professor of Agricultural Economics, Professor of Political Science, Reader in Econometrics and Lecturer in Political Science were created and filled up during the year. A new Department of Agricultural Economics was also created. In the Faculty of Science two additional Lecturers one each in Botany and Mathematics

were appointed. The work in the General Education Department under the Faculty of Education and Psychology having considerably increased due to the increase in the number of students and also due to revised syllabus, one new post of Reader and three posts of Lecturers were added to the Department during the year. In the Faculty of Commerce vacant posts of Reader in Co-operation and Lecturer in Banking were filled up. New posts of a Lecturer in Accounts and a Lecturer in Economics were created. In the Faculty of Technology and Engineering one additional post of Professor of Mechanical Engineering was instituted and filled up. The vacant posts of a Lecturer in Architecture, two Lecturers in Geology and a Lecturer in Electrical Engineering were filled up. In the Faculty of Fine Arts the post of Reader in Applied Arts (against the post of Professor) was filled up. A post of Lecturer in Applied Arts was created and filled up. The posts of Reader in Painting, one Reader and one Lecturer in Sculpture approved by the University Grants Commission were also filled up. In the Faculty of Home Science the vacant post of a Lecturer in Child Development was filled up. The post of a Demonstrator was converted to that of a Lecturer. The post of Arts and Crafts teacher was up-graded to that of a Lecturer. In the Faculty of Social Work two posts of Professors, one of Reader, one of Assistant Supervisor and two of Lecturers were filled up during the year.

In the College of Indian Music, Dance and Dramatics two posts, *viz.*: Lecturer in Dance and Lecturer in Sitar were created and filled up. One vacant post of Lecturer in Dancing was also filled up. In the Polytechnic a Reader was appointed against the vacant post of a Professor in Mechanical Engineering.

4. Honorary Professors

The provision of inviting eminent scholars and experts in specialized branches of knowledge as Honorary and Visiting Professors and Lecturers was continued under the Scheme. The following were continued or invited to work as Honorary Professors or Lecturers:

(a) Honorary Professors

Name	Subject	Faculty/Institution
(i) Shri C. C. Mehta	Dramatics	College of Indian Music, Dance and Dramatics
(ii) Shri H. K. Doring	Modelling and Display Technic	Museology Department

Name	Subject	Faculty/Institution
(iii) Shri V. L. Devkar	Museology	Museology Department
(iv) Shri L. B. Shastri	Aesthetics	Faculty of Fine Arts

(b) Honorary Lecturers

(i) Smt. Mirabai Badkar	Vocal Music	College of Indian Music, Dance and Dramatics
(ii) Shri Gulam Rasulkhan	Vocal Music	do

In addition to the above, other persons were also invited to deliver lectures, the details of which are given in Chapter XXV.

5. Research Assistants and Scholarships

During the year the Syndicate reviewed and revised existing Ordinances about Scholarships, Research Assistantships, Research Studentships and Fellowships as under:

(1) Merit Scholarships were not provided earlier in the first years of B.A. (Fine) and B.Mus. Courses and in the First Term of the First Years of Diploma Courses in the Faculties of Technology and Fine Arts. They were provided in the second term only. In the revision this anomaly was removed and merit scholarships are provided for the whole session in the first years of these courses in line with the first years of other degree and diploma courses.

(2) Merit Scholarship amounts in the Diploma Classes in the Faculties of Technology and Engineering and Fine Arts were raised from Rs. 5, Rs. 7, and Rs. 8 per month to Rs. 10, Rs. 15 and Rs. 20 per month respectively.

(3) 20 Post-graduate Merit Scholarships of Rs. 40/- per month each and 18 Fellowships of Rs. 50/- per month each were combined into post-graduate Scholarships of Rs. 60/- per month each and the number was raised to 56 with a view to encourage deserving students to prosecute post-graduate studies.

(4) Research Studentships of Rs. 75/- p. m. awarded to students of the Ph.D. were abolished, and in their place Research Scholarships of Rs. 150/- per month each were created. Rules for the award of these scholarships are laid down on the lines of similar scholarships awarded by the University Grants Commission.

(5) Scholarship amount for students of this University admitted to the Chemical Technology Department of the Bombay University was raised from Rs. 50/- per month to Rs. 75/- per month.

(6) Amount of Research Assistantship was raised from Rs. 100-200 to Rs. 150-250.

During the year twelve Research Assistants were working in the different Faculties and Institutions.

6. Additional grants for Research

In addition to the amount sanctioned in the Revenue Budget and grants received from Government and other Research Bodies, the University also considered the schemes of surveys, research studies, etc. and sanctioned necessary grants for books, equipment, contingencies, etc. to provide additional facilities for research work. Some schemes approved previously were continued and some additional schemes were sanctioned during the year. Additional grants amounting to Rs. 1,72,482/- were sanctioned during the year as under:

<i>Department/ Faculty</i>	<i>Particulars</i>	<i>Amount sanctioned Rs.</i>
I	3	4
Economics	(i) Survey of Consumers' Finance in Baroda	4,700
	(ii) Village Survey	2,900
Gujarati	(i) Scheme of Publication of Critical Edition of Old Gujarati Texts	5,350
	(ii) Publications of late Professor B. K. Thakore	7,135
History	Research in Muslim History of Gujarat	5,350
Sanskrit	Publications of translation of Ninth Mandal of Rgveda	2,200
Sociology	For contingency, field work, traineeship and publication	12,100
Politics	(i) Scheme of exploratory project on Political Analysis	600
	(ii) Survey of Rural Local Government in Baroda Taluka	3,500

<i>Department/ Faculty</i>	<i>Particulars</i>	<i>Amount Sanctioned Rs.</i>
	(iii) Scheme of Leadership in Indian Village	3,500
Hindi	Contingencies, T.A. and publications	6,000
Science	Purchase of equipments, fine chemicals, contingencies for various research schemes	19,450
Education and Psychology	(i) Apparatus, equipment, T.A., printing, publications, etc.	6,600
	(ii) Study and editing of the important educational records of the Baroda State under Maharaja Sayajirao Gaekwad	4,300
Commerce	Survey of Banking habit in the Baroda City	900
Medicine	Purchase of equipments, contingencies, etc. for various research schemes	2,800
Technology and Engineering	Study and Analysis of Tajmahal	735
College of Indian Music, Dance and Dramatics	Scheme of Bibliography of Drama	900
General	Publication of research papers, etc.	3,100
Archaeology and Ancient History	Excess amount to be borne by the University over the recurring grant sanctioned by the University Grants Commission	50,332
Museology	Excess amount to be borne by the University over the sanctioned grant from the University Grants Commission	30,030
Total Rs.		1,72,482

CHAPTER V—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-Graduate Studies and Research

The Council of Post-graduate Studies and Research held three meetings during the year, on the 12th August, 1960, 15th November, 1960 and the 20th March, 1961 and considered in all 63 items referred to it.

The following are some of the main items considered by the Council:

(I) Research Schemes:

- (a) The Council recommended for approval the following new Research Schemes:

<i>Title of the Scheme</i>	<i>Conducted by</i>
(i) Structural Investigation of High Grade Metamorphic Rocks	Dr. S. S. Merh, Reader in Geology, Faculty of Technology and Engineering
(ii) Metal Chelates of Oximes	Dr. A. M. Talati, Lecturer in Chemistry, Faculty of Technology and Engineering
(iii) Study of C-Reactive Protein Test in abnormal pregnancy and Puerperium	Dr. B. T. Dave, Asstt. Professor of Medicine, Medical College, Baroda
(iv) Susceptibility to Diphtheria among children in Baroda	Dr. A. K. Niyogi, Professor of Preventive and Social Medicine, Medical College, Baroda
(v) A Survey of Sickle Cell Traits among Bhils of Baroda District along with Phenotyping of these Bhils	Dr. B. A. Sayed, Professor of Pathology and Dr. S. P. Amin, Jr. Lecturer in Bacteriology, Medical College, Baroda
(vi) Histophysiological Studies on Muscle Differentiation and Histophysiological Studies on the Testis with special reference to Fat Metabolism	Professor J. C. George, Professor of Zoology, Faculty of Science, Baroda.

<i>Title of the Scheme</i>	<i>Conducted by</i>
(vii) Exploratory Longitude Studies of Children in Experimental High School with reference to growth, intelligence, social behaviour and creativity	Dr. (Kum.) P. Pasricha, Reader, Faculty of Education and Psychology

The Syndicate approved the above schemes on the recommendations of the Council.

- (b) The Council recorded the progress reports of the following Research Schemes and recommended continuation for one more year:

<i>Title of the Scheme</i>	<i>Conducted by</i>
(i) Interaction of Arsanitic Acid and Synthesis of Quinoline Derivatives, etc.	Dr. C. M. Mehta, Reader in Chemistry, Faculty of Science
(ii) Bio-synthesis of Carotenoids in the Micro-Organisms	Dr. V. V. Mody, Reader in Bio-chemistry, Faculty of Science
(iii) Inquiry into investigation on Urinary excretions, etc. and Inquiry into investigation on effect of different foods on the Urinary Quinine excretion	Dr. M. L. Pai, Lecturer, Medical College
(iv) Swelling Pressures in Expensive Soils	Shri P. V. Parikh, Lecturer, Faculty of Technology and Engineering
(v) Study of properties of road stone aggregates of Gujarat area	Professor O. H. Patel, Faculty of Technology and Engineering
(vi) Investigation of factors of stress concentration in bars with sharp grooves and fillets in tension.	Dr. R. T. Shah, Lecturer, Faculty of Technology and Engineering
(vii) Inquiry into the Study of Urinary Sulphur excretion and Skin Temperatures of Indians, etc.	Dr. J. D. Pathak, Principal, Medical College

- (c) The Council recorded the 18th and 19th half yearly progress reports of the Critical Editions of old Gujarati Texts (Prachin Gurjar Granthmala).
- (2) The Council recommended that
- (i) Forest Research Institute, Bangalore
 - (ii) Indian Institute of Sugarcane Research, Lucknow
 - (iii) Central Leather Research Institute, Adyar, Madras
 - (iv) Central Public Health Engineering Research Institute, Nagpur
- be recognised for carrying on research by the students of the University for the Ph.D. degree of this University. The Syndicate approved the recommendation.
- (3) The Council recommended the recognition of 34 additional teachers as Post-graduate teachers in various subjects. The Syndicate accepted the recommendation.
- (4) The Council proposed amendment of S. 83 regarding the number of teachers to be elected by the Senate on Divisions I and II of the Council. The Syndicate approved the proposal.
- (5) The Council recommended that
- (i) The students working for post-graduate degrees by papers in Faculties other than Medicine be not required to be attached to the recognised post-graduate teachers;
 - (ii) The post-graduate students in the Faculty of Medicine be permitted to register themselves as post-graduate students ordinarily at the beginning of the academic term or at any time suitable to the institution, instead of in the first week of March or September;
 - (iii) the thesis relating to the Modern Indian Language be accepted in that language, without previous permission of the Council.

The Syndicate approved the recommendations.

2. Faculties

There are nine Faculties in the University. Their meetings were held during the year as shown below :

S. No.	Name of the Faculty	Date of meeting
(i)	Arts	12th February, 1961
(ii)	Science	12th February, 1961

S.No.	Name of the Faculty	Date of meeting
(iii)	Education and Psychology	11th March, 1961
(iv)	Commerce	12th February, 1961
(v)	Medicine	25th June, 1960
(vi)	Technology and Engineering	21st January, 1961
(vii)	Fine Arts	12th February, 1961
(viii)	Home Science	13th March, 1961
(ix)	Social Work	14th November, 1960
(x)	Joint meeting of the Faculties of Arts, Science and Commerce	23rd January, 1961
(xi)	Joint meeting of the Faculties of Arts and Commerce	12th February, 1961
(xii)	Joint meeting of the Faculties of Science and Technology and Engineering	12th February, 1961

Important items of business on which the Faculties made recommendations are mentioned below :

(a) Faculty of Arts

- (i) Reconsideration of the minimum requirements for admission to the ' Shastri ' and ' Acharya ' courses in Baroda Sanskrit Mahavidyalaya;
- (ii) Revising the syllabi and text-books in Hindi for B.A. and M.A. courses in the Faculty of Arts and the four year courses in the Faculty of Fine Arts for the year 1962 and onwards;
- (iii) Prescribing text-books in languages for B.A. and M.A. and other examinations for 1962 and onwards;
- (iv) Approving the syllabus in English for the Faculty of Home Science;
- (v) Approving the syllabus for the M.A. subsidiary course in American Literature;
- (vi) Approving the revised scheme of paper and syllabi for M.A. Sociology;
- (vii) Approving the syllabi, etc. in Sociology for the paper of Civics and Sociology at the fourth year of the B. Arch. degree;
- (viii) Approving the course in Ancient Indian Culture at F.Y.B.A. and introducing the same from the academic year 1961-62;

- (ix) Revising the course of World History at F.Y.B.A. to exclude Ancient and Medieval Period ;
 - (x) Revising the Paper II in Linguistic—Historical and Comparative Linguistics—at the M.A. (Subordinate) with effect from the examination of 1962 ;
 - (xi) Revising the syllabi in Linguistics at the B.A. (Minor) examination and introducing the same from June, 1961 ;
 - (xii) Introducing a paper in Linguistics at the F.Y.B.A. in the revised scheme of the three year degree course ;
 - (xiii) Approving the list of books recommended for the Diploma in Library Science ;
 - (xiv) Approving the recast syllabus of the B.A. (Minor) and B.A. (Major) for Law ;
 - (xv) Approving the scheme for the LL.M. courses prepared by Professor K. R. Mehta ;
 - (xvi) Approving the list of “ allied subjects ” for B.A. major subjects ;
 - (xvii) Approving a definite policy in allowing the failed students to appear at the paper in the old texts by giving them one more chance to appear with the old texts at an examination that immediately follows the last regular examination with old texts ;
 - (xviii) Allowing the students to change the subjects from one group to another in F.Y.B.A. and S.Y.B.A. upto the 31st August only.
- (b) *Faculty of Science*
- (i) A student who has passed M.Sc. with any one special subject be allowed to appear in another special subject after putting in two additional terms and on passing in that subject be awarded a certificate in that special subject without being given any class ;
 - (ii) A candidate who passes the B.Sc. Principal examination and the B.Sc. Subsidiary examination with aggregate marks equal to 60% or more in all the three subjects but with 55% or more marks in the Principal subject will also be declared to have passed the B.Sc. degree examination in First Class ;

- (iii) As a special case, those students who have failed at previous B.Sc. (old) examination in Principal subject be given one more chance at March-April, 1961 examination and the same set of question papers be set for the students of old and new courses.

(c) *Faculty of Education and Psychology*

- (i) Decided procedure for assessment of dissertations for M.A. (Psychology) degree ;
- (ii) Recommended subjects to be considered as allied to Psychology ;
- (iii) Amended admission rule for the Professional Diploma in Guidance and Counselling ;
- (iv) Revised syllabus for B.A. (Major) Optional—Educational Psychology ;
- (v) Revision of syllabi of B.Ed. examination ;
- (vi) Revision of syllabi, standard of passing, etc. for T.D. examination ;
- (vii) Amended admission rule for Professional Diploma in Applied Linguistics ;
- (viii) Amended O. 375 regarding admission qualifications for T.D. examination ;
- (ix) Revision of syllabus for S.Y. B.A. (Minor)—Education—Paper I.

(d) *Faculty of Commerce*

- (i) Revision of the syllabus in Accountancy at the B.Com. and M.Com. degree examinations ;
- (ii) Revision of Paper VIII—Business Administration and Principles of Business Management at the M.Com. degree examination ;
- (iii) “ Scientific Method ” added as an Optional subject under Paper VII at the F. Y. B.Com. examination ;
- (iv) “ Business Management ” as an Optional subject of three papers at the B.Com. examination is added and its syllabus is approved ;
- (v) Minimum of 30% for passing in each paper at the M.Com. degree examination, as at present, be continued.

(e) *Faculty of Medicine*

- (i) Amendment of Ordinances regarding M.Sc. degree in medical subjects;
- (ii) Recommended simultaneous registration for a post-graduate degree and diploma in the same subject and subsequent registration for a post-graduate degree and diploma in an allied subject;
- (iii) Approved draft of the Ordinances for the M. S. degree;
- (iv) Transfers for students from one Medical College to another Medical College within the Old Bombay State be permitted only under special circumstances in the first term following I or II M.B., B.S. University examinations only;
- (v) The cadets of the 20th Medical Company, N.C.C. who have attended at least two Social Service Camps, be exempted for one month during the period of Internship at the Health Centre;
- (vi) Candidates who have failed at the M.Sc. examination in medical subjects be permitted to re-appear as ex-students during the period of five years from the date of their being eligible for first appearance;
- (vii) The credit marks for the subjects of II and III M.B., B.S. examinations be raised to 30% with effect from October, 1960 examinations;
- (viii) Faculty is not in favour of cutting down the duration of the degree course in Medicine;
- (ix) Approved the recommendation of the Inter-University Board of India that persons having the Certificates of Speciality of U.S.A. or Canada be considered qualified as specialists in their respective subjects for purposes of employment;
- (x) The F.A.C.S. degree of the American Colleges of Surgeons be not recognised as equivalent to the post-graduate qualifications of Indian Universities for purposes of appointment to non-teaching posts, for which a post-graduate qualification is prescribed;
- (xi) A Pre-Dental course be started and students passing this examination be considered eligible for B.D.S. degree course. A committee is appointed to work out details;

- (xii) Worked out details of the post-examination training and a committee is appointed to suggest as to how the training at the Health Centre, Padra, can be improved and be useful;
- (xiii) F.F.A. of the Royal College of Surgeons be recognised for purposes of employment.

(f) *Faculty of Technology and Engineering*

- (i) Inclusion of certain topics in the present syllabi of Mathematics I and II of F.E. (New) and S.E. (New) examinations;
- (ii) Replacement, deletion and amendment of some Ordinances and modifications in the syllabi, scheme of examinations, etc. in respect of Diploma, Degree and Post-graduate degree examinations of the Faculty of Technology and Engineering;
- (iii) Introduction of 5-year integrated degree courses in Civil, Mechanical and Electrical Engineering from 1962-63 as proposed by the Government of India;
- (iv) Admission of some students who have passed the First Year Diploma examinations in Textile Chemistry or Textile Technology in First Class in addition to their having passed the Preparatory Science examination of this University or its equivalent examination, to the F. Text. Engineering or F. Text. Technology degree course directly.

(g) *Faculty of Fine Arts*

- (i) Revision of syllabi, scheme of examinations, etc. for the various examinations in Painting, Sculpture and Applied Arts;
- (ii) Decided about granting exemptions to students who have failed to pass the Final Year Degree or Diploma examination under the Faculty of Fine Arts;
- (iii) Provided for allowing the degree students who passed in practicals but failed in theory, to change over to the diploma courses at any time during preparatory stage or before the end of the first term in the First Year of the Degree course in Fine Arts;
- (iv) Decided about admission requirements for Certificate courses in the Faculty;
- (v) Decided about awarding a final overall grade at the Final Year Degree examinations in Painting, Sculpture and Applied Arts in the Faculty;

- (vi) Revised the syllabi for the Post-graduate Diploma course in Museology ;
- (vii) Revision of the Degree and Diploma courses in Dramatics by dividing the Junior and Senior B.Mus. courses into three major courses.
- (h) *Faculty of Home Science*
- (i) A regular student who either fails in March-April University examination or who had failed in one of the semesters during the first three years be also allowed to appear for the final B.Sc. (Home) degree examination in October, with effect from examination of October, 1961 ;
- (ii) No candidate be allowed to have more than three chances in all in any of the eight semesters, examination ;
- (iii) Revision of the scheme of papers and practicals for the final B.Sc. (Home) degree examination ;
- (iv) Revision of the scheme for the M.Sc. (Home) degree examination ;
- (v) A candidate declared unsuccessful at the M.Sc. (Home) degree examination can appear at the subsequent examination as an ex-student for two more attempts within a period of next five years from the date of being eligible for first appearance.
- (i) *Faculty of Social Work*
- (i) Approved the Examiners' Report Form as recommended by the Committee ;
- (ii) Approved the curriculum and the reading list for the years 1961-63 ;
- (iii) Laid down principles for methods of calculation of final grades for preparation of merit list, to be made applicable from the examination of 1961.
- (j) *Joint Faculties of Arts and Commerce*
- (i) Students offering Economics as allied (Minor) subject at B.A. examination are now required to offer the following two Papers :
- Paper 1—Economic History of India
 Paper 2—Economic History of Great Powers
 Syllabi for these two papers are approved ;

- (ii) Optional Paper VII and VIII—Advanced Statistics and Applied Statistics in Economics at M.A. examination is replaced by Mathematical Economics and Econometrics and the syllabi for these two Papers is approved and made effective from the examination of 1962 ;
- (iii) Revised syllabus for Agricultural Economics—Optional Papers VII and VIII at the M.A. examination ;
- (iv) Revised syllabus of Papers III, IV and V at the Post-graduate Diploma in Co-operation.
- (k) *Joint Faculties of Arts, Science and Commerce*
- (i) No candidate be allowed to take the final year degree examination of the Three Year Degree course in the Faculties of Arts, Science and Commerce without his having appeared for the examination in the papers or subjects or groups which he is permitted to take at the end of second year or in October following or simultaneously along with the Final Year examination.
- (ii) (a) Students who have failed at the Intermediate Arts, Science or Commerce examination of this University and who are allowed to appear as ex-students at the F.Y. B.A. or F.Y.B.Sc. or the F.Y.B.Com. examination be exempted from the General Education course of the First Year ;
- (b) Students of this University who have migrated after keeping terms at the Jr. B.A. or Jr. B.Sc. or the Jr. B.Com. (old course) and who have again taken admission to the final year B.A. or B.Sc. or B.Com. be exempted from the General Education course of the Second Year *i.e.* they be exempted from doing the General Education course ;
- (iii) Students passing Preparatory examinations in Arts, Science or Commerce of this University be considered eligible for admission to F.Y. of the Three Year Degree Course in the Faculty other than the one as per Scheme prepared.
- (l) *Joint meetings of Faculties of Science and Technology and Engineering*
- (i) Revised two years' M.Sc. Course in Geology ;

- (ii) Approved one year Post-M.Sc. Course in Applied Geology as an interim measure.

3. Boards of Studies

There are 38 Boards of Studies. Their meetings were held in the year as shown below :

S. No.	Name of the Board	Date of the meeting
(i)	Sanskrit, Pali and Ardhamagadhi Languages and Literature	3rd October, 1960
(ii)	Persian, Urdu and other Asian Languages and Literature	1st October, 1960
(iii)	Hindi Language and Literature	27th October, 1960
(iv)	Gujarati Language and Literature	14th October, 1960
(v)	Marathi Language and Literature	8th October, 1960
(vi)	English Language and Literature	8th October, 1960
(vii)	Sociology	8th October, 1960
(viii)	History, Archaeology and Ancient Indian Culture	12th December, 1960 28th October, 1960
(ix)	Philosophy	12th November, 1960
(x)	Linguistics	29th September, 1960
(xi)	Library Science	29th September, 1960
(xii)	Law	5th October, 1960
(xiii)	Physics and Meteorology	15th October, 1960
(xiv)	Chemistry	12th October, 1960
(xv)	Botany	17th October, 1960
(xvi)	Zoology	17th October, 1960
(xvii)	Biochemistry	27th October, 1960
(xviii)	Education	8th October, 1960
(xix)	Psychology	11th March, 1961 8th October, 1960
(xx)	Banking and Business Finance	11th March, 1961
(xxi)	Accounts	9th October, 1960
(xxii)	Commerce including Business Administration	1st October, 1960 1st October, 1960
(xxiii)	Anatomy and Physiology	29th September, 1960
(xxiv)	Pharmacology and Pathology	10th October, 1960

S.No.	Name of the Board	Date of the meeting
(xxv)	Medicine, Surgery, Midwifery, etc.	15th October, 1960
(xxvi)	Technology (Textile)	31st October, 1960
(xxvii)	Engineering	31st October, 1960
(xxviii)	Painting, Sculpture and Applied Arts	7th and 8th August, 1960 13th October, 1960
(xxix)	Architecture	27th January, 1961
(xxx)	Music, Dance and Dramatics	11th October, 1960 9th February, 1961
(xxxi)	Museology	14th October, 1960
(xxxii)	Home Science	5th November, 1960
(xxxiii)	Social Work	7th November, 1960
(xxxiv)	Mathematics	3rd October, 1960
(xxxv)	Statistics and Actuarial Science	12th October, 1960
(xxxvi)	Geography	9th November, 1960
(xxxvii)	Economics	14th October, 1960
(xxxviii)	Politics and Administration	8th November, 1960
(xxxix)	Geology	16th January, 1961

The items of business at the meetings of the Boards consisted of elections, drawing up of panels of examiners, consideration of reports of examiners, revision of syllabi, prescription of text-books for various courses, etc. Some of the noteworthy important recommendations made by some of the Boards have been included in the recommendations of the Faculties mentioned in the preceding paragraphs.

CHAPTER VI—OTHER BOARDS AND COMMITTEES

General

Besides the authorities mentioned in the foregoing Chapters, there are several other Boards and Committees. The work done by some of these bodies during the year is mentioned below :

1. University Board of Sports

Three meetings of the Board of Sports were held during the year. It approved selection of teams in Cricket, Hockey, Foot-Ball, Volley Ball, Tennis, Badminton, Kho-Kho (Men and Women), Hu-Tu-Tu, Wrestling, Boxing, Athletics, Swimming and Diving, Table-Tennis, and Basket Ball to be sent to participate in the Inter-University Tournaments. The Board of Sports placed on record its sense of appreciation of the services rendered by Professor A.R. Chavan as a member for the last 10 years.

The coaches were appointed to train the University Cricket, Hockey, Foot-Ball, Basket Ball, Tennis, Badminton, Kho-Kho (Men and Women), and Volley Ball Teams. The 'University Colours' were awarded to Captain V.S. Hazare as an outstanding Cricketer and for his valuable contribution to the game of cricket. The fees for Boating were modified as under :

- (i) Rs. 5/- per member per year excluding the vacation period.
- (ii) Rs. 3/- per member for the summer vacation.

2. Publication Board

The Publication Board met once during the year on the 16th August, 1960. The Board considered and recommended for approval of the Syndicate the publication of the following works by the University :

S. No.	Title	Estimated Cost Rs.
(i)	(a) Akha Bani	
	(b) Dalpatram's Shraavanakhyan and	5,000
	(c) Kishandas	
(ii)	Thesis by Dr. B. V. Shah	1,500
(iii)	'Dharma Shastra' Lectures delivered by Shri H. S. Shukla	525
(iv)	Vak Chhata	650
(v)	The Geography of Padra Town	7,000

3. Board of Extra Mural Studies

The Board met once on the 16th September, 1960. It reviewed the Extra Mural Activities during the previous year and recommended a programme of extension lectures by University teachers and outside experts, educational tours of students and exhibitions to be organised during the year. The following amounts were sanctioned to the various Faculties and Institutions as mentioned against them :

S. No.	Name of the Faculty/Institution	Total grant Rs.
(1)	Faculty of Arts	1,000
(2)	Faculty of Education and Psychology	400
(3)	Faculty of Medicine	800
(4)	Faculty of Technology and Engineering	1,000
(5)	Faculty of Fine Arts	600
(6)	Faculty of Home Science	500
(7)	Faculty of Social Work	700
(8)	Preparatory Unit	200
(9)	College of Indian Music, Dance and Dramatics	200
(10)	Baroda Sanskrit Mahavidyalaya	300

It was also decided that the Lecturers invited under the Extra Mural Series be paid an honorarium upto Rs. 50/- per lecture and First Class return railway fare, or an honorarium of Rs. 100/- per lecture inclusive of travelling allowance as per Rule No. 3 of the Rules regarding payments to Honorary Professors and Lecturers and Visiting Professors and Lecturers.

4. Library Committee

The Committee met once during the year on the 2nd April, 1960. The Committee recommended Standing Vendors for the purchase of books and periodicals during the year 1960-61. It allocated the annual book grant of Rs. 20,000/- to various subjects. The Committee also recommended that the Rule 3 (1) be amended to read as under :—

3. " for each category of readers the number of maximum books to be given on loan for reading at home shall be as follows :
 - (1) University teachers (including Tutors and Demonstrators) and the Officers of the University of the grade of Lecturer and above—6 Vols."

5. Students' Advisory Bureau for Studies in India and Abroad

The Bureau collects information regarding courses, etc. in the Indian and Foreign Universities and Educational Institutions and furnishes the same to the students on request.

(1) Total number of books (Calendars, Handbooks, Bulletins, Pamphlets, etc.) in the beginning of the year <i>viz.</i> April, 1960	1,750
(2) Handbooks, Calendars, etc. added during the year	1,625
(3) Handbooks, Calendars, etc. transferred to Shrimati Hansa Mehta Library during the year	1,195
(4) Number of persons whose applications were forwarded to U.K., U.S.A. and other countries	25
(5) Written queries replied during the year	196

The Bureau also supplied information pertaining to higher studies in India and abroad to 324 persons who called at this office personally during the period under report.

6. Standing Committee on Equivalence of Examinations

The Standing Committee on Equivalence of Examinations met twice during the year on the 12th August, 1960 and on the 6th March, 1961. It considered the questions on equivalence of various examinations and cases of eligibility of students referred to it. It recommended that students passing the School Certificate Examination of the Cambridge University or the General Certificate of Education (Ordinary Level) of the Cambridge University with 'Compensatory Pass', 'Weak Pass' and 'PF' in the subject of English be not considered eligible for admission to this University.

7. Board of Visitors

The meetings of the Boards of Visitors for the Faculty of Medicine, Faculty of Technology and Engineering, Faculty of Fine Arts and the College of Indian Music, Dance and Dramatics were held during the year. The recommendations and the reports of the meetings were submitted to the Syndicate. Some of the important recommendations made in the meetings of the Boards and approved by the Syndicate are as under:

(a) *Faculty of Medicine:* The Board of Visitors for the Faculty of Medicine met on the 8th January, 1961. The Board considered the recommendations previously made by it and the extent upto which they were implemented. The Board reiterated that the Physiotherapy Depart-

ment should be adequately staffed by appointment of two Physiotherapists, other Assistants, one Sister, Ward Boys, Clerk and a Sweeper. Some additional equipments like Short Wave Diathermy machine, Electrical Stimulation machine, Thermostatic machines, Watertank for Hydrotherapy, Static bicycles were required to be installed in the Department.

Occupational Therapy Department was recommended to be started soon with all necessary equipments. Baroda was recommended as an ideal place for establishment of the Rehabilitation Centre and a school of training physiotherapists and occupational therapists. The staff for the quarters of the Resident Medical staff was recommended to be immediately sanctioned. The staff for the Department of Preventative and Social Medicine as well as a jeep with a driver and two class IV servants were also recommended.

The Board also recommended that the grant of the Radiology Department be increased and the workers to be periodically checked by blood examination; a Central Record Library for the College be built up; a post of Senior Lecturer in Experimental Studies be created to promote experimental work; a Clinical Psychologist and an Honorary Pediatrician be appointed in the Hospital.

Amongst other equipments necessary for the Hospital the Board strongly recommended that (1) a new Operation Theatre Block be constructed and a Water Distiller be installed; (2) First Class paying Ward Block of 10 beds be added and (3) two more full-time Anaesthetists be appointed. Additional equipment and staff for the Mental Hospital was also recommended.

(b) *Faculty of Technology and Engineering:* The Board met on the 22nd March, 1961. It recommended that (1) Degree Course in Chemical Engineering be started; (2) Post-graduate Course in Applied Geology be started; (3) The Five year Integrated Courses be started from the Academic Year 1962-63; (4) Practice of admitting students to the extent of 10% more than the number fixed be strictly adhered to; (5) the grade of Readers, Lecturers and Demonstrators be revised on par with the grades existing at present in the Government Engineering Colleges and the designation 'Demonstrators' be changed to 'Instructors'; (6) the additional staff and equipment required be included in the Third Five Year Plan proposals; (7) All India Council of Technical Education be approach-

ed for a grant for construction of residential quarters for the staff of the Faculty of Technology and Engineering; (8) a new post of Reader in Electrical Engineering (Electronics) be created; and (9) a Small-sub-Committee be appointed by the Board of Visitors to inspect the Faculty and its working.

(c) *Faculty of Fine Arts*: The Board met on the 14th March, 1961. It recommended that (1) a new post of Lecturer in Applied Arts be created; (2) the proposal for development of Process Section of Applied Arts Department be recorded and Shri M. C. Patel, Technical Expert in Process in the Times of India be invited in next session to inspect the present section and submit a report regarding its development; (3) the Faculty may keep in touch with the past students, and keep some record of their progress.

(d) *College of Indian Music, Dance and Dramatics*: The Board met on the 13th March, 1961. It recommended that (1) the proposal of Principal in the matter of creation of the post of Lecturer in Acoustics be recorded; (2) an additional post of Lecturer in Dramatics be created in the College; (3) Dimmer and Effect Projection Machines which are important and necessary equipment for instructional purposes be purchased; (4) the designation 'Tutor in Costume Making' be changed to 'Tutor in Dramatics.'

8. Wardens in the Halls of Residence

The Committee to select Wardens met once on the 16th November, 1960 and recommended the following teachers for appointment as Wardens:

S.No.	Name of the Hall	Name of the Teacher recommended
1.	Shri K. M. Munshi Hall	} Dr. S. S. Merh
2.	Shri Dadabhai Naoroji Hall	
3.	Polytechnic Hall No. 1	Shri C. M. Patel
4.	Polytechnic Hall No. 2	Professor J. M. Shah
5.	Polytechnic Hall No. 3	Shri Ramu Pandit

It also recommended that Wardens be appointed ordinarily for not more than two terms of 3 years each.

The Wardens' Committee met four times during the year 1960-61. The Committee recommended the programme of orientation of the new students coming to Halls of Residence in the commencement of the session 1961-62. It recommended an amount of Rs. 100 as a grant for the Sports

Tournaments of the Halls. The Committee discontinued the Chief Warden's post and the administration of the Halls of Residence was entrusted to the Wardens' Committee with Deputy Registrar as-Ex-officio Secretary of the Committee. The Committee recommended that duty hours of the Electrician and the Plumber be suitably altered so that their services are readily available when needed.

9. Advisory Committee for the Halls of Residence

The Committee met once on the 19th February, 1961. It recommended the scheme of drinking water supply for the Halls of Residence of men students at an estimated cost of Rs. 7,000. The Committee found the messing arrangements in the Halls satisfactory.

10. Finance and Establishment Standing Committee.

The Committee held ten meetings during the year and considered several items concerning requests for additional establishment, grants, purchase of equipments, approval of plans, estimates and tenders for construction of works, and requests from the members of the staff regarding study leave, leave without pay for studies abroad and extension of re-employment periods of employees, etc. The recommendations of the Committee were placed before the Syndicate.

The Committee met as Budget Committee on the 13th January, 1961. It submitted to the Syndicate the revised estimates for the year 1960-61 and the estimates for the year 1961-62 after scrutinising various proposals received from the Faculties, Institutions and Offices of the University.

11. Investment Committee

The Committee held ten meetings during the year. The recommendations of the Committee concerning the investment, etc. of the University funds were submitted to the Syndicate.

12. Committee for the General Education and Preparatory Courses in Arts, Science and Commerce.

In order to co-ordinate the work in the General Education as well as the Preparatory Courses in Arts, Science and Commerce the two separate Committees viz.: (i) Advisory Committee to advise on the organisation and the set-up of the General Education Centre and (ii) Committee for Preparatory Courses in Arts, Science and Commerce were combined into one Committee named as above. The Committee held two meetings during the year on the 21st December, 1960 and the 20th March, 1961. The Com-

mittee recommended that (1) teachers in Preparatory Classes may explain in Gujarati or Hindi about main topics to be taught in the class in the lecture and also difficult technical terms; (2) no text-books be prescribed for English for the Preparatory Courses and no reading material for English be prepared by the Department of English; (3) Sub-Committees consisting of the Heads of the Departments and the teachers of subject concerned be formed for recommending courses and books for study and for preparing panel of examiners; three Sub-Committees one each for Humanities, Social Sciences and Natural Sciences for the General Education course be formed. At the meeting held on the 20th March, 1961, the Committee recommended that the concession of combined passing and combined exemption in the higher and lower S.S.C. be continued during the academic year 1961-62 for admission to Preparatory Classes. It also appointed a Sub-Committee for the admission procedure to be followed from June, 1961 and recommended text-books to be followed during the next academic year.

13. Examination Reforms Committee

The meeting of the Examination Reforms Committee was held on the 23rd July, 1960 to consider the establishment of Examination Reform and Research Unit under University Grants Commission. The Committee was re-constituted under Syndicate Resolution No. 51 dated the 26th November, 1960. The first meeting of the newly constituted Examination Reforms Committee was held on the 21st December, 1960. It was resolved that every Faculty may form an Examination Committee to suggest measures for reforms and to examine the proposals for reform. This step was taken to make the teachers more conscious about the needed improvement and to seek their active co-operation in the programme of reforms. A Seminar was held on the 28th January, 1961 to discuss the following problems related to Examination Reforms: (i) Relation between class records and marks in the final examination, (ii) Methods to calculate aggregate marks, (iii) Organisation of tests for class records, (iv) Types of questions for class tests. Members from all the Faculties participated actively in the Seminar and made a number of concrete workable suggestions for improving the examination as well as keeping the class records.

14. Selection Committees

During the period from the 1st April, 1960 to the 31st March, 1961 there were nineteen meetings of the Selection Committees appointed under

section 48(2) of the Act and the Committee recommended 17 candidates for appointment to the posts of Professors and Readers. There were also 76 meetings of the Selection Committees for Junior Posts and 12 meetings of the Selection Committees for Class III Posts. 177 and 16 candidates respectively were recommended by these Committees for the appointment to different posts in the University.

15. Shri Sayaji Sahityamala Publication Committee

The Committee met thrice during the year on the 22nd June, 13th July and the 3rd October, 1960. The Committee considered the question of publishing some books and recommended the following for publication :

Shri Sayaji Sahityamala

S. No.	Name of the Book	Author
1.	भारतीय संस्कृति	Late Shri R. V. Desai; abridged by Shri K. S. Yajnik
2.	अंत्रिका, कोटेश्वर અને કુંભારિયા	Shri K. B. Dave
3.	महागुजरातना मुसलमानो	Shri Karim Mahammed Master

Shri Sayaji Gramavikasamala

1.	समाजशिक्षण	Shri S. H. Shah
2.	लोकनाट्य અને ગામડું	Shri Jashvant Thaker

Sayaji Balajnanamala

1.	जीवन सुवास	Late Shri Rasulbhai N. Vohra
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16. Building Planning Committee and University Building Committee

A Joint meeting of the University Building Committee and the Building Planning Committee was held on the 17th October, 1960. It recommended the programme of new construction works, ordinary and special repairs to the buildings of the University to be carried out during the next year.

17. Press Supervisory Committee

The Committee held eleven meetings during the year 1960-61. It considered the monthly reports of the Manager regarding the working of the Press and printing programme and made recommendations regarding purchase of paper, stationery, equipments, etc. as well as replacement of some parts of the machines in the University Press. It also made recommendations regarding the working of the Stationery Unit and University Publication Sales Unit.

18. N.C.C. Senior Division Advisory Committee

The Committee met twice during the year on the 2nd July, 1960 and the 23rd February, 1961. The Committee recommended that the teachers be encouraged to go for N.C.C. Officers training and that there may be an equitable distribution of teacher officers from all Faculties. The Committee also recommended that amenity grants may be made according to the prescribed scale. Special grants amounting to Rs. 1,500 were made to the 17th Gujarat Air Squadron, 3rd Gujarat Air Squadron and the 20th Gujarat Signal Section for purchase of Trophies.

19. Sir Sayajirao III Memorial Research Prize Fund Committee

The Committee met once during the year on the 1st September, 1960 and declared the result of the essay competition " भारतमा लोकशाही " for the year 1959-60. It also decided to invite Prize Essays on " अग्नि पशियामां भारतीय वसाहते " before the 15th June, 1961.

20. Students' Aid Fund Committee

Only one meeting of the Committee was held on the 17th September, 1960. It considered the applications of the students of the various Faculties and Institutions of the University for financial assistance and allocated an amount of Rs. 15,647/- as help to students in the form of tuition fees, examination fees, books, medical aid, etc.

21. Deans' Committee

The meeting of the Deans of Faculties and Heads of Institutions was held once during the year on the 15th November, 1960. The committee considered the scheme of the Government of India regarding the translation of standard works of the University level into Hindi. The Committee resolved that the list of teachers in the University who were willing to undertake translation work in Hindi under the scheme along with the name of books they would like to translate be prepared and sent to the Government. The Committee also resolved that translation of some additional books over and above those given by the Government be also taken up. The Committee agreed with the Government of Gujarat for the creation of a small cell in the State for implementation and co-ordination of the project.

22. Students' Welfare Board

The Board met once during the year on the 20th December, 1960. The Board had appointed a Sub-Committee with Shrimati Indira Bhanot

as Convener to suggest ways and means of having a more thorough medical check-up of the students and a more effective follow-up of those cases which deserve further treatment. It was decided that a group of senior students should welcome the new comers and take them around the Halls of Residence and the University Campus. The Dean, Faculty of Social Work and Dr. (Kumari) Prem Paschricha were requested to draw up a suitable programme for the next academic year.

23. Advisory Board for the M. S. University Journal

The Board held two meetings during the year on the 6th September, 1960 and the 27th March, 1961. The Board decided that there will be three issues instead of two, viz. Humanity, Social Sciences and Science during the year. It was also decided that the Deans of the Faculties of Arts, Science and Commerce be requested to provide suitable space for the office of the Editors of the Journals. The yearly subscription for all three numbers is fixed Rs. 10/- per year and price for a single number Rs. 4/- per year.

24. Planning Forum

There is a University Co-ordinating Committee of the Planning Forums in the Faculties, consisting of the Vice-Chancellor as its Chairman and Pro-Vice-Chancellor as Vice-Chairman, Registrar as Secretary, Deans of the Faculties of Arts, Commerce and Social Work, Professor I. S. Gulati, Professor of Economics and two students—one of Junior M.A. class and the other of Senior M.Com. class as its members. The Committee co-ordinates and guides the work of the various planning forums in the Faculties and Colleges under the University. No meeting was held during the period under report.

In addition to the above Committee, there are separate planning forums in each Faculty and they carry out useful activities. A small study group consisting of the senior students and at least one senior teacher is formed in each Faculty and College for carrying out the activities of the Planning Forum of the Faculty or College concerned.

An Information Centre partially financed by the Government of India, Ministry of Information and Broadcasting has been established and situated in the University Library for the display of literature, pamphlets, etc. pertaining to the Planning Forum subjects received from the Government.

The Vice-Chancellor, Dr. J. M. Mehta, Professor B. G. Shah, Dean, Faculty of Commerce and Shri G. I. Pandya, a student of M.A. class are representing our University on the State Executive Committee of University Planning Forums.

The Government of India, Planning Commission awarded a grant of Rs. 500/- for the celebration of National Plan Days. National Plan Days were celebrated in the University on the 14th, 15th and the 16th September, 1960. During the celebrations, an Inter-Faculty Students' Debate on "In the opinion of this House the draft outline of the Third Five Year Plan is not un-realistic" was held on the 14th September, 1960 under the Chairmanship of the Pro-Vice-Chancellor. On the 15th September, 1960, a film show and an exhibition depicting the progress of planning in India was arranged. On the 16th September, 1960, an interesting and informative symposium on the Third Five Year Plan by the teachers of various Faculties was arranged under the Chairmanship of the Vice-Chancellor.

The Forums also arranged an Inter-Faculty Students' Essay Competition on the Third Five Year Plan. As a part of the celebrations the teachers of the Faculty of Commerce addressed students in the High Schools of Baroda and nearby places.

CHAPTER VII—RESEARCH WORK IN UNIVERSITY

1. Some of the research work done by the members of the staff of the University is being published in the Journal of the University. The Journal entered the 9th year of its publication. There is an Advisory Board for the Journal. The Journal is divided into three parts *viz.* Humanities, Social Sciences and Natural Sciences and separate Editorial Boards are constituted. Professor V. Y. Kantak, Professor M. B. Desai and Professor U. N. Singh are the editors of Humanities Number, Social Sciences Number and Natural Sciences Number respectively.

2. During the year, Post-graduate and research work was done in almost all Faculties and Institutions under the University. 189 students registered for Ph.D. and 15 students registered for M.Ed. degree by research during the previous years continued their research. Details about fresh students registered during the year for the Ph.D. degree are given in the statement below :

Sr. No.	Name	Date of Registration	Name of the Guiding Teacher	Subject	Title of the Thesis
1	2	3	4	5	6
Ph.D.					
Faculty of Arts (9)					
1	A. Y. Tripathi	11-4-1960	Professor B. J. Sandesara	Gujarati	"Sagar as Poet, Philosopher and Prose Writer"
2	P. L. Jha	4-8-1960	Professor C. P. Singh	Hindi	The Origin and Development of Maithily Drama
3	H. N. Gupta Chakor	8-8-1960	Professor C. P. Singh	Hindi	Hindi Ka Stotra-Sahitya
4	K. Y. Baxi	8-8-1960	Professor B. G. Shah	Economics	Indian Joint Stock Banking & Study in Post-War trends and development
5	M. G. Chaturvedi	29-9-1960	Professor C. P. Singh	Hindi	Gujarat ki Hindi Kavyaparampara tatha Acharya Kavi Govind Gillabhai

1	2	3	4	5	6
6	R. V. Dholakia	3-9-1960	Professor I. S. Gulati	Economics	Inflationary Trends in India since 1947 and their impact on Indian Economic Development
7	V. K. Bhatt	3-12-1960	Professor B. Subbarao	Ancient Indian Culture	Art in Mediaeval Gujarat (500 A.D. to 1300 A.D.)
8	R. D. Pathak	10-12-1960	Professor C. P. Singh	Hindi	Sant Kavi Akhajivani aur Hindi Krutioka Alochanatmak Adhyayan.
9	L. B. Santesivara	16-1-1961	Dr. A. G. Javadekar	Philosophy	Some aspects of Beauty in relation to Truth and Reality
Faculty of Science (14)					
10	Ambadkar Prabhakar M.	9-8-1960	Professor J. C. George	Zoology	Studies on certain enzymes concerned with fat metabolism with emphasis on lipase in Vertebrate tissue
11	Trivedi Jayantkumar M.	6-7-1960	Dr. C. M. Mehta	Organic Chemistry	Studies in reactive methylene group Compounds—Organic Arsenical
12	Nair K. S. Sadasivan	29-8-1960	Professor J. C. George	Zoology	Histological Studies in certain aspects of insect life
13	Mehta Rajendra-prasad H.	21-7-1960	Professor Suresh Sethna	Organic Chemistry	Chemical Investigation of Plants
14	Jagwani Uttam K.	25-7-1960	Professor Suresh Sethna	Organic Chemistry	Studies in Mannich Reaction
15	Mathai K. P.	5-8-1960	Professor Suresh Sethna	Organic Chemistry	Studies in Chloromethylation
16	Patel Purushottamdas R.	11-8-1960	Dr. S. L. Bafna	Physical Chemistry	Synthesis and study of ion exchange compounds
17	Goyal Omprakash S.	7-7-1960	Professor U. N. Singh	Mathematics	Analysis—Problems on Theory of Trigonometrical Series
18	Kumari Patwa Dharmishtha K.	4-1-1960	Dr. V. V. Modi	Bio-Chemistry	Mechanism of the Carotene Biosynthesis in Mangoes & Carrots

1	2	3	4	5	6
19	Bhatt Bhupendra B.	28-6-1960	Dr. J. D. Pathak	Bio-Chemistry	Urinary Excretion of Sulphur
20	Dave Kokil-chandra M.	24-11-1960	Professor U. N. Singh	Mathematics	Harmonic Analysis
21	Patel Ranchhodbhai C.	24-11-1960	Professor U. N. Singh	Mathematics	Summability Problems of Trigonometrical Series
22	Panchal Bhagwandas R.	24-2-1961	Dr. J. S. Dave	Chemistry	Studies in Liquid Crystals
23	Bedi Surinder-singh J.	19-9-1960	Professor A. R. Chavan	Botany	Floristic studies of the Ratanmahal and surrounding Hills
Faculty of Education and Psychology (3)					
24	Mehta Rupa Kantichandra	18-7-1960	Shri T. P. Lele	Education	A comparative study of Childhood sibling relationships of American and Indian girls with their chief sibling rival
25	Shah Vasant-kumar Bhura-bhai	27-8-1960	Dr. A. S. Patel	Psychology	A study of the nature of concept formation and conceptual among Schizophrenic Patients
26	Deopurkar Ramachandra Trimbak	28-8-1960	Professor S. N. Mukerji	Education	The Evolution of Philosophy of Education in Modern India.
Faculty of Commerce (2)					
27	Shri Vyas Arvind Ganpatram	25-6-1960	Dr. H. L. Dholakia	Commerce	Marketing of Raw Cotton in Gujarat
28	Shri Teredesai Prakash Laxman	25-6-1960	Dr. H. L. Dholakia	Commerce	Financial Structure of the Indian Cotton Textile Industry with special reference to Gujarat

3. The research work done by the members of the staff is given in the statement below :

Name of the Department and the teacher

Subject of Research

Faculty of Arts

1 Economics :

(a) Shri H. P. Chokshi

Growth and Scope of Corporate Taxation in India

<i>Name of the Department and teacher</i>	<i>Subject of Research</i>
(b) Shri R. M. Patel	Agrarian Labour in Baroda District
2 Gujarati :	
(a) Shri I. A. Dave	A Critical Survey of Old Gujarati Literature along with a Study of Cultural data supplied by it
(b) Shri H. M. Trivedi	Professor B. K. Thakore : His Life and Works
3 Sanskrit :	
(a) Dr. A. N. Jani	(i) Preparing a Critical edition of the Raskaumudi in G.O. Series (ii) Preparing a book on 'Sriharsa' in the Sayaji Sahityamala Series
(b) Dr. (Kumari) S. A. Nachane	' Advaita-Vedants '
(c) Dr. S. G. Kantawala	(i) Further Studies in the Geographical and Ethnic Date of the Matsya Purana (ii) Some Vedic Problems (iii) Preparing a book on Bana in the Sayaji Sahityamala Series.
4 Philosophy :	
(a) Dr. A. G. Javdekar	Applications of Axionoetics.
(b) Kumari S. H. Divatia	A Comparative Study of the Philosophical Concept from the Linguistic point of view.
5 History :	
(a) Dr. S. C. Misra	"History of Gujarat under the Muslims". Under this Project the printing of the "Mirat-I Sikandiri" was nearly completed. Work on two new manuscripts the "Ma'Asir-I-Mahmud Shahi" and "Qissa-I-Ghamghin" has commenced and is expected to finish during 1961-62.

<i>Name of the Department and the teacher</i>	<i>Subject of Research</i>
6 Marathi :	
(a) Dr. V. P. Dandekar	Working on the theme of "History of the Marathi Historical Dramas". This work will constitute the third volume of his "मराठी नाट्यसृष्टि". The earlier ones are "पौराणिक नाटक" and "सामाजिक नाटक".
7 Sociology :	
(a) Professor I. P. Desai	(i) Actively engaged in processing of the Data of the Mahuva Research Project and in writing up the Report of the Project. (ii) Associated with the Research Project for the study of the History of Gujarat under Muslims in collaboration with the Department of History.
(b) Dr. (Smt.) J. M. Panchanadikar	} Functional and Dysfunctional aspects of the working of C.D.P. in Gujarat, India.
(c) Dr. K. C. Panchanadikar	
Faculty of Science	
1 Biochemistry :	
(a) Professor C. V. Ramakrishnan	(i) Studies on Tissue Culture (ii) Studies in Intermediary Metabolism in Plants and Molds (iii) Studies in Human Lactation. (Professor Ramakrishnan was away in Australia but the schemes were in progress in the department.)
(b) Dr. V. V. Modi	Biosynthesis of Carotenoids in Molds and Plants
2 Botany :	
(a) Professor A. R. Chavan	(i) Sedges of Gujarat (ii) Morphogenesis of Cumurbitaceae and Passifloraceae

<i>Name of the Department and the teacher</i>	<i>Subject of Research</i>
	(iii) Floristic Studies
	(iv) Organogeny and Cytoembryological work on some of the Bicarpellates
(b) Dr. C. H. Pathak	Effect of Growth promoting Substances on Plants
3 Chemistry :	
(a) Professor S. M. Sethna	(i) Synthesis of hetero-cyclic compounds from 1 and 2 anthrol (ii) Iodination and Chloromethylation of compounds, chromones and flavones (iii) Synthesis of Cyano-Coumarins and Chromones (iv) Synthesis of Bicoumaryo Derivatives
(b) Dr. C. M. Mehta	Partial hydrolysis of substituted Amides of Cynacetic acid
(c) Dr. J. S. Dave	(i) Mixed Liquid Crystals (ii) Chelate Compounds
(d) Dr. S. L. Bafna	Ion Exchange Resins
4 Geography :	
Shrimati V. A. Janaki	(i) Urban Geography of Towns in Gujarat (ii) Transport and Rise of Towns in Gujarat
5 Mathematics :	
Professor U. N. Singh	(i) Functional Analysis (ii) Trigonometrical Series
6 Physics :	
(a) Professor D. V. Gogate	Heat Transfer Phenomena
(b) Dr. N. S. Pandya	(i) Optical Studies of Etched Surfaces of Metal and Alloy Crystals

<i>Name of the Department and the teacher</i>	<i>Subject of Research</i>
	(ii) Study of Growth and Etch Phenomena in Crystals
(c) Dr. R. V. Joshi	Study of Luminescence in Crystals
7 Statistics :	
(a) Professor N. M. Bhatt	(i) Analysis of Certain Examination Results (ii) Certain Problems in Mathematical Statistics
(b) Shrimati I. V. Bhanot	(i) Study of Medical Inspection Reports (ii) Wastage and Stagnation in University
(c) Shrimati I. V. Bhanot and Dr. C. G. Khatri	Vital Statistics Baroda
(d) Dr. C. G. Khatri and Shri B. K. Shah	Problems in Curve fitting and Distributions
8 Zoology :	
(a) Professor J. C. George	(i) Developmental Physiology (ii) Structure and Physiology of Muscle (iii) Avian Biology (iv) Reptilian Anatomy and Physiology
(b) Dr. R. V. Shah	(i) Reptiliar Anatomy and Physiology (ii) Vertebrate Embryology
Faculty of Education and Psychology	
1 Education :	
Dr. M. S. Patel and Shri J. J. Mody	A Linguistic Socio-cultural comparison between English and Gujarati
2 Psychology :	
(a) Shri L. J. Bhatt	A Psychological Analysis of Instructional difficulties of Teachers
(b) Dr. (Kumari) P. Pasricha	(i) Standardisation of Lydia Jackson's test of family attitude

Name of the Department and
the teacher

Subject of Research

- (ii) Construction and standardisation of an intelligence test for the pre-school children. The instrument is planned to be along the same lines as the Merrill-Palmer test series for the pre-school child
- (c) Dr. (Kumari) P. Pasricha and Miss Sudha P. Shah
Problem Check list for University students
- (d) Dr. (Kumari) P. Pasricha and Shri M. N. Palsane
(i) Aptitude Test for Business Administration Students
(ii) Aptitude Test for Technology students
(iii) Aptitude Testing
- (e) Dr. (Smt.) P. Phatak
(i) Growth Curves Height & Weight
(ii) Draw-a-man Test—Norms on Phatak's Scale for Gujarat
- 3 Educational Administration :
- (a) Shri D. B. Desai
A study of the nature and causes of student indiscipline in the secondary schools of Gujarat
- (b) Sarvashri D. B. Desai and R. S. Shah
Teachers' attitude towards the problems of Internal School Administration—A survey

Faculty of Home Science

- 1 Clothing and Textile :
Professor (Kumari) Justina A. Singh
(i) Costumes of India
(ii) Indian Historic Textiles
- 2 Foods and Nutrition :
Professor (Kumari) Justina A. Singh
A Cook Book Recipes for Homes and Distributions

Name of the Department and
the teacher

Subject of Research

- 3 Child Development :
- (a) Shrimati Amita Verma
Survey of Local Nursery Schools and Historical Development of Early Childhood Education in Baroda
- (b) Kumari Anjali Trivedi
Research on Rhymes and Songs for Children
- (c) Kumari Kalindi Randeri
A study of parents Co-operation with Nursery School and its Effect on child's behaviour in school

College of Indian Music, Dance and Dramatics

- 1 Music :
Professor R. C. Mehta
Indian Music, its legend, history and heritage. Agra Gharana Tradition and Chijas
- 2 Dramatics :
Professor C. C. Mehta
Bibliography of Drama

Sanskrit Mahavidyalaya

- 1 Sanskrit :
- (a) Shri H. C. Mehta
(i) Kavya Mimansa of Rajshekhar with translation, introduction and critical notes in Gujarati
(ii) Critical study of Jagannatha Jyotish Tatva—Ancient work on Astrology with a commentary in Sanskrit
- (b) Shri L. J. Zha
Arthasangraha of Laugakshi Bhaskar with commentary and introduction.
- (c) Shri S. V. Bhatt-bhatt

CHAPTER VIII—FACULTY OF ARTS

1. Brief History

The Baroda College is the oldest institution transferred to the University. It was founded in the year 1881. It had two sections, *viz.* Arts and Science, and was affiliated to the Bombay University for all subjects of University Education, and upto the highest degrees in the Faculties of Arts and Science. For nearly half a century, it was the only institution imparting University education in the former Baroda State. The institution was taken over by the University on the 30th April, 1949. Its Arts and Science sections were organised into the Faculty of Arts and the Faculty of Science from June, 1950.

2. Buildings

The Faculty is housed in the east wing and a part of the west wing of the former Baroda College building. The Departments of Archaeology and Ancient History and Sociology have shifted to the new buildings. The Seminar building was renovated for the use of the Departments of Gujarati and Political Science. The rooms on the first floor of the west wing of the building are being used for the office of the Preparatory Unit. A separate Common-room for girls has been erected near the Faculty building for the use of the Women students of the Preparatory Unit and the Faculties of Arts, Science and Commerce.

3. Courses of Studies

There was provision for the following courses during the year :

- (1) B.A., M.A., Ph.D. English, Gujarati, Marathi, Hindi, Sanskrit, Sociology, History, Philosophy, Economics, Political Science, Psychology, Archaeology and Ancient Indian Culture, Prakrit and Ancient Indian Culture.
- (2) B.A. and M.A. Persian, Statistics, Geography & Mathematics
- (3) M.A. (Sub.) Linguistics
- (4) B.A. (Sub.) and M.A. (Sub.) Pali, Urdu

- (5) B.A. (Prin.) and Law
B.A. (Sub.)
- (6) B.A. (Sub.) French, Education
- (7) Post-graduate Library Science
Diploma

The History Department introduced from 1960-61 a new four paper course in Mediaeval Indian History at the M.A. level.

4. Number of students

The number of students enrolled in the various classes at the commencement of the year 1960-61 was as under :

Class	Men	Women	Total
F.Y.B.A.	186	109	295
S.Y.B.A.	183	118	301
T.Y.B.A.	179	71	250
Diploma in Library Science	5	4	9
Jr. M.A.	73	34	107
Sr. M.A.	52	22	74
Ph.D.	8	—	8
	686	358	1044

5. Staff

During the year the staff of the Faculty consisted of 8 Professors, 17 Readers, 48 Lecturers, 16 Tutors, 2 part-time Teachers, 1 Curator, 1 Excavation Assistant, 21 Class III Technicians (including Technicians) and 18 Class IV servants. Teachers of the Faculty also carried out assignments in other Faculties and Institutions where the Humanities and the Social Sciences are included in their courses.

6. Museum, Laboratories and Studios

This year the scheme for the expansion of the Department of Archaeology and Ancient History sanctioned by the University Grants Commission was completed. The new building was inaugurated by Professor Humayun Kabir, Minister for Scientific Research and Cultural Affairs, Government of India.

The excavation at the Buddhist site 'Devni Mori' was continued. A few more Buddhist images, an apsidal temple, and some platforms of votive stupas were excavated.

The following is the statement of the cost of equipment :

Sr. No.	Item	Cost of equipment on 1-4-1960	Cost of equipment, etc. written off during the year	Cost of equipment, etc. added during the year	Cost of equipment as on 31-3-1961
		Rs.		Rs.	Rs.
1	Museum	4,533=98	—	—	4,533=98
2	Studios	13,809=96	—	—	13,809=96
3	Drawing equipment ..	1,806=75	—	—	1,806=75
4	Dead Stock	28,854=43	—	14,903=83	43,758=26
5	U.G.C. (N.R.) Equipment	52,223=23	—	25,611=34	77,834=57
6	Excavation	1,184=35	—	—	1,184=35
		1,02,412=70		40,515=17	1,42,927=87

7. Publications by the members of the Staff

The following were the publications by the members of the staff of the Faculty during the year 1960-61

(I) Articles or Papers :

Name	Title	Name of the Journal wherein published
1 Professor B. Subbarao	Archaeology in Gujarat	Indian National Congress Souvenir
2 Shri S. C. Malik	The life and times of Stone Age Man	Journal of the Oriental Institute, December, 1960
3 Dr. R. N. Mehta	(i) Sculpture from Dholka	Chimanlal Gandhi Vidya-bhavan, Surat
	(ii) A fragmentary inscription from Talangpur, District Surat	Chimanlal Gandhi Vidya-bhavan, Surat
	(iii) ગુજરાતનું શિલ્પ અને સ્થાપત્ય	इंडियन नेशनल काँग्रेस सोवैनीयर
	(iv) પુરાવસ્તુમાં ગુજરાત	ગુજરાત દર્શન, 'વિશ્વમાનવ'
	(v) Vasravi, An Iron Smelting Site, Taluka Mangrol, District Surat	Journal of the Oriental Institute, Vol. IX, No. 3
4 Shri S. N. Chaudhary	(i) Excavation of a Buddhist Stupa and Vihara	Journal of the Oriental Institute, Baroda

Name	Title	Name of the Journal wherein published
5 Shri Y. A. Raikar	(i) Indian History—A Study in Dynamics	Archaeology Series, No. 5, M. S. University of Baroda, October, 1960
6 Shri B. Suryawanshi	Problem of the Origin of the Abhiras	Proceedings of Indian History Congress, Gauhati
7 Dr. A. G. Javadekar	Axiomatics or Valuational Theory of Knowledge	Journal of the M. S. University of Baroda, Arts Number, June, 1960
8 Professor V. Y. Kantak	How to Read a Frost Poem?	The Literary Criterion, Mysore University, Winter, 1960
9 Shri R. N. Mehta	Review of "The Theory of the Novel in England" by H. Richard Stang	The Indian Journal of English Studies, Vol. V, No. 1, 1960
10 Professor A. H. Somjee	(i) Problems Confronted in the rejuvenation of Political Theory	Indian Political Science Journal, December 1960
	(ii) Problems of Indian Socialist Party	Quest, December, 1960
11 Shri R. F. Kothari	(i) Preconditions of Sustained Growth of Indian Economy	Economic Weekly, July, 1960
	(ii) A Report on Sardarnagar	Economic Weekly, November, 1960
12 Dr. Y. J. Tripathi	પ્રેમસ્વરૂપ શ્રીકૃષ્ણ	जनकल्याण—विभूति अंक, मार्च, १९६१
13 Dr. S. H. Joshi	(i) काव्यनो आस्वाद	ક્ષિતિજ;— જુલાઈ, ૧૯૬૪
	(ii) गईकालनी गुजराती वार्ता (A review of an anthology of Gujarati short stories published by Sahitya Akademi)	ક્ષિતિજ—નવેમ્બર, ૧૯૬૦
14 Shri H. M. Trivedi	An article reviewing the session of Gujarati Adhyapak Sangh held at Ahmedabad in Winter Vacation, 1960	"Vishwamanav" January-February, 1961
15 Professor I. S. Gulati	(i) Case for Higher Prices in the Third Plan	The Economic Weekly Annual Number February, 1961

Name	Title	Name of the Journal wherein published
	(ii) State's Share in Central Revenue: Task before Finance Commission	The Economic Times, March, 1961
16 Professor M. B. Desai	1 Community Development in India	Indian Journal of Agricultural Economics, July-September, 1960
	2 Some Reflections On Land Reforms	Vol. XII, 5 United Asia—1960
	3 Marketable Surplus in Indian Agriculture	Indian Journal of Agricultural Economics, January-March, 1961
	4 Agrarian Pattern	Special Number, A.I.C.C. Session, Bhavnagar, January, 1961
	5 Economy of the Community	Jagriti—Journal of the Khadi and Village Industries Commission, August, 1960
	6 Co-operative Policy	'The Economic Times', March, 1961
	7 Agrarian Problems of the Gujarat State	'Vyapar' October, 1960
17 Shri R. S. Mehta	Community Development in Gujarat	'Vyapar', October, 1960
18 Shri Rajendra Kumar	Free Trade Area in Asia	The Economic Weekly, March, 1961
19 Shri J. N. Sharma	Incidence and Effects of Taxation on Consumers with special reference to Profits Tax	Economic Affairs, April 1960
20 Dr. S. G. Kantawala	1. A tentative Interpretation of Rgveda I.143.3	Journal of the Oriental Institute, Baroda, September, 1960
	2. चातुर्वर्ण्योत्पत्ति—मत्स्य पुराणनी दृष्टिसे	Journal of the Gujarat Research Society, Bombay, October, 1960
	3. Home of the Matsya-purana	'Purana' (Varanasi) January, 1961
	4. महर्षि व्यास	'जनकल्याण', मार्च, 1961
	5. श्वेताश्वतरोपनिषत्समां योगसाधना	'नवभारती', नवम्बर, 1960

Name	Title	Name of the Journal wherein published
21 Shri N. R. Sheth	Trade Union in an Indian Factory — A Sociological Analysis	The Economic Weekly, July, 1960
22 Dr. B. V. Shah	(i) Inequality of Educational opportunities—A Case Study	The Economic Weekly, August, 1960 and 'Vishwamanav', November, 1960
	(ii) Joint Family System—An Opinion Survey of Gujarati Students	The Economic Weekly, December, 1960
	(iii) Gujarati College students and caste	Sociological Bulletin—Indian Sociological Society, March, 1961
23 श्री एम. जी. गुप्त	(1) सौमरिका मोह. (2) ऋतुराज के दो शब्दचित्र. (3) दीपावली की रात्रि, पांजन्य	भारती मासिक, दीपावली अंक आधार, वसंत अंक, 1961 दीपावली अंक, 1960
24 प्रो. सी. पी. सिंह	(1) उर्दू की परम्परा के मोड़. (2) भगवान राम के गुरना. (3) नवीनतम गुजराती साहित्य.	टण्डन अभिनंदन ग्रंथ, 1960 ज्ञानभारती, सितम्बर, 1960 वार्षिकी, दिल्ली, फरवरी, 1961
25 डॉ. ए. एस. नागर	(1) गुजरात के संत कवि (लेखमाला) (2) " " (3) " " (4) " " (5) " " (6) हिन्दी साहित्य को गुजरात की देन (7) हिन्दी साहित्यमां गुजरातीनुं योगदान	संतवाणी; पटना, सितम्बर, 1960 " " अक्तुबर, 1960 " " दिसम्बर, 1960 " " जनवरी, 1961 " " फरवरी, 1961 स्मृतिग्रंथ, अखिल भारतीय कांग्रेस का 22वां अधिवेशन, भावनगर गुजरात एक परिचय, अखिल भारतीय कांग्रेस का 22वां अधिवेशन, भावनगर
26 एम. जी. चतुर्वेदी	(1) प्रज्ञाचक्षु श्री ब्रजानंद सरस्वती (2) आचार्य कवि गोविंद गिह्लाभाई, सरस्वती	ज्ञानभारती, सितम्बर, 1960 मई, 1961

(2) Books :

Name	Title	Name of the Publisher
1 Shri K. S. Desai	Problems of Administration in Two Indian villages	M. S. University of Baroda, 1961
2 Dr. R. M. Patel	Kavi Shamala	Chetan Prakashan Grih Ltd., Baroda, March, 1961
3 Dr. Y. J. Tripathi	Mataji Omkareshvari-Bhajanamruta (Edited)	Independent publication, Self—October, 1960

Name	Title	Name of the Publisher
4 Shri H. M. Trivedi	'Prasad' (A small anthology of Poems, Edited)	Kamalesh Prakashan Mandir, Wadashinor
5 Dr. S. H. Joshi	'Kinchit'—a collection of Literary and critical essays	Chetan Prakashan Grih Ltd., Baroda, March 1961
6 Late Professor B. K. Thakore, Editor Professor B. J. Sandesara	Praveshako Guchchha II	Gujarati Department, M. S. University of Baroda, March, 1961
7 Dr. B. J. Sandesara and Shri S. D. Parekh	Prachin Phagu Sangraha (Prachin Gurjar Granthamala)	Gujarati Department, M. S. University of Baroda, March, 1961
8 Dr. I. S. Gulati	Resource Prospects of the Third Five Year Plan	Orient Longmans, Bombay 1960
9 Shri M. G. Gupta	भारत की पांच कलायें	शिवपुस्तकालय, बड़ौदा
10 Professor C. P. Singh	हिन्दी नाट्यसाहित्य और रंगमंच की सीमांसा, भाग-१, १९६१	गुज्जर भारती प्रकाशन, बड़ौदा
11 Dr. A. S. Nagar	हिन्दी निबंध निधि, १९६०	बोहरा एन्ड को. बम्बई
12 Professor M. B. Desai	1 Co-operation in Karjan 2 Role of Middlemen and co-operatives in the Production and Marketing of fish in India	Indian Society of Agricultural Economics, Bombay Food and Agricultural Organisation of the United Nations, Rome, 1960

8. Literary, Cultural and other Activities

Many members of the staff contributed articles on academic and popular themes and reviews of important books in outstanding journals, delivered public lectures, gave radio talks and were associated with academic, literary and cultural activities in the Faculty, in the city and outside Baroda. Many members of the staff were deputed to attend the Annual Conferences at which they read papers. Three members of the staff worked as N.C.C. officers. The Faculty students participated in most of the items of the Inter-Faculty Cultural competitions held during the University Week Celebrations. The Faculty won the Second prize in Group Dance and two students won the first and the second prizes for their performance in Drama. In the field of elocution the students of this Faculty participated in debates and won some prizes. Two students represented the Faculty at the Mahadevbhai Desai Trophy Competition held at Ahmedabad and one of them got the consolation prize.

Considerable progress was made in the field of games too. Table Tennis, Carrom and Badminton tournaments were arranged this year. The Faculty won the 1st prize in University mixed doubles and ladies' Table Tennis tournaments. One of the girls of the Faculty won the championship in athletics. The cricket team of this Faculty has again won the championship Cup of the Inter-Faculty Cricket tournament. Some students of the Faculty represented the University at the Inter-University Volley-Ball tournament held in Madras, and at the Inter-University Kho-Kho tournament held in Indore. Two students of the Faculty represented the University at Inter-University Boxing tournament held in Ceylon and at the Tennis tournament held in Hyderabad.

9. Co-curricular Activities

(1) Tours: The History Association arranged a study tour during October, 1960, to North India in which twenty graduate and post-graduate students participated. They visited important historical places and also Kashmir. Under the auspices of the Gujarati Literary Society, an educational tour to Surat, Dumas and Kakrapada, etc. was arranged in November, 1960. The Society also arranged a trip to 'Vasad'. The Sanskrit Literary Society arranged a trip to Galteshwar. One of the special features of the year was a cultural tour of the Faculty organised by the Association during the winter vacation. Twenty students of the Faculty visited various cultural places like Ajanta, Ellora and Nasik.

(2) Faculty Annual Day: The Faculty celebrated its Annual Day on the 14th February, 1961, with the Vice-Chancellor Dr. J. M. Mehta as the Chief guest. The celebration ended with the Annual Dinner.

(3) Debates: Dr. A. G. Javadekar acted as the Convener of the Speaker's Club. A Symposium on 'Creativity' was arranged on the 22nd February, 1961, under the Chairmanship of the Vice-Chancellor Dr. J. M. Mehta in which members of the staff from various Faculties participated.

(4) Exhibition: The Central Advisory Board of Archaeology met at Baroda in October, 1960. During the period of the meeting an exhibition of materials excavated in different parts of India was held in the new building of the Archaeology Department. The Department also assisted in holding an exhibition on the culture of Gujarat, at Bhavnagar on the occasion of the Annual meeting of Indian National Congress and the one held in the month of May, 1960, under the auspices of the Govern-

ment of Gujarat. The Department lent exhibits to the Baroda office of the Department of Publicity, Government of Gujarat, for the exhibition held at the meeting of the All India Printers' Conference.

(5) Societies :—The following Societies carried on their usual activities during the year :

- (a) English Literary Society
- (b) Shakespeare Society
- (c) History Association
- (d) Marathi Literary Society
- (e) Gujarati Sahitya Mandal
- (f) U.N.O. Society
- (g) Sanskrit Literary Society
- (h) Political Science Society
- (i) Economics Association
- (j) Philosophy Society
- (k) Hindi Sahitya Samiti
- (l) The Speaker's Club

Each of these carried out its own programme of Symposia and Seminars where papers were read by the students and discussions were held with both the students and the teachers participating in them.

The Shakespeare Society staged in January, 1961, Shakespeare's " Twelfth Night " and Bernard Shaw's ' Pygmalion ' before an invited audience.

(6) Celebrations : Important National days were observed and anniversaries of men of letters in Hindi Literature were also celebrated by arranging lectures befitting the occasions.

10. Tests and Class Work :

The old Tutorial system has been considerably modified. The new system envisages greater emphasis on class work and discussion, the students' work being examined by the respective teachers and not tutors. The students' work is to be evaluated in two mid-term and one terminal test during the year. The Faculty has left it to the different departments to organise a viva voce during the year whenever necessary.

11. Other Important Events

(1) Many distinguished visitors came to the Faculty during the year, gave lectures and held discussions with teachers and students.

- (a) Mr. Richard Church, noted English poet, critic and novelist visited the Department of English and delivered a lecture on " The Element of Faith in Literature. " This was followed by a meeting at which Mr. Church gave readings from his own poems.
- (b) Dr. F. E. Zeuner, the well known Geo-chronologist of the University of London visited the University as visiting Professor under the auspices of the British Council's Commonwealth University-Interchange Scheme. He delivered the Maharaja Sayajirao Memorial Lectures on " The Environments of Early Man with special reference to Tropical regions ". He also surveyed parts of Gujarat for correlating the pleistocene sea-levels in the gulf of Cambay.
- (c) Professor Herbert J. Wood of the University of Washington (Rullman) visiting Professor of American History stayed at Baroda and assisted the Department of History by lecturing to the Post-graduate students of the Department from November, 1960 to March, 1961. He was invited by the Department of Economics to deliver two post-graduate lectures on the American Entrepreneur.
- (d) Nawab Mehdi Nawaz Jung, Governor of the Gujarat State paid a visit to the Faculty of Arts and the Archaeology Department on the 10th August, 1960. The Department of History organised a small exhibition of its manuscripts, coins, etc. which was appreciated by the Governor.
- (e) Professor Walter C. Neale of the University of Texas delivered four lectures on Economic Development and Land Reforms and conducted two Seminars from the 16th to the 19th January, 1961.
- (f) Professor Max Gluckman, the Head of the Department of Social Anthropology of the Manchester University visited the Department of Sociology and delivered a series of lectures.
- (2) Shri S. H. Joshi, Lecturer in Gujarati and Kumari Surabhi H. Trivedi, a student of the Sanskrit Department were awarded the Ph.D. degree for their theses (i) ' Critical Edition of Jnanagita 1616 A. D. Narhari with a study of the life and work of the author and the tradition

of the Jnanamargi poetry in old Gujarati Literature' and (ii) 'Brahma-Purana—A Critical Study', respectively.

(3) Miss Nicole Dubois, who has come as a student for the Dancing course in the College of Indian Music, Dance and Dramatics under the Scheme, 'Grant of Fellowships to French Fellows, 1960-62' has been assigned the work of teaching French language in the University.

(4) On the basis of an offer from the Embassy of the Federal Republic of Germany, Dr. Klaus Ries has been appointed as Lecturer to teach German language for a period of one year in the University.



The Chancellor handing over the Diploma for the degree of Doctor of Science to Dr. Jivraj N. Mehta in the Special Convocation

CHAPTER IX—FACULTY OF SCIENCE

1. Brief History

The old Baroda College established in 1881, had a Science section with departments of Physics, Chemistry and Biology. When the University was started on the 30th April, 1949, the Baroda College was taken over by the University which organized the Science section into the Faculty of Science by 1950. The departments of Physics and Chemistry were strengthened and in place of Biology department, the departments of Botany and Zoology were started. The department of Mathematics and the newly started departments of Statistics and Geography were transferred from the Arts Faculty to the Science Faculty. The department of Geology was started in 1952 and is located in the Faculty of Technology and Engineering. The department of Biochemistry was added in June, 1955. The Faculty of Science now consists of the departments of Biochemistry, Botany, Chemistry, Geography, Mathematics, Physics, Statistics, and Zoology, the Geology department being located in the Faculty of Technology and Engineering.

2. Building

The Faculty of Science is accommodated in its main building known as the Sayaji Jubilee Science Institute building, which was completed in 1937, and in the Square Block near it. There is a small separate building for the Central workshop of the Faculty and there are small buildings for a vivarium for the Zoology Department and gas plant and specially constructed rooms for storing acids, petrol, etc.

The construction of the new building with an area of about 29,873 sq. ft. for the Faculty of Science for which a grant of Rs. 4,40,000/- was given by the University Grants Commission, was completed during the year at the total cost of Rs. 4,65,399/-.

3. Courses of Studies

There is provision for teaching the following courses :

- | | | |
|-------|------------------------|---|
| (1) | B.Sc., M.Sc. and Ph.D. | Botany, Chemistry, Geography, Mathematics, Physics, Statistics and Zoology. |
| (2) | M.Sc. and Ph.D. | Bio-chemistry |
| (3) | B.Sc. and M.Sc. | Geology |

(4) Pre-Medical

One year's Course after Preparatory Science.

The New B.Sc. course started in June 1957, is an integrated three-year course, after Preparatory Science Course, during which a student studies one Principal subject and two subsidiary subjects, out of the subjects: Botany, Chemistry, Economics, Geography, Geology, Mathematics, Physics, Statistics and Zoology. The M.Sc. course is of two years after B.Sc. and it is only by papers and/or practicals and/or dissertation but not by research. The course for Ph.D. degree is by research only, for two years after M.Sc.

A new course in M.Sc. with Geology was started in June, 1960 with the starting of the Jr. M.Sc. (Geology) Class.

4. Number of Students

The number of students on roll in the various classes at the beginning of the year 1960-61 was as under :

Class	Men	Women	Total
Pre-Medical	*51	10	*61
B.Sc. I	101	22	123
B.Sc. II	120	21	141
B.Sc. III	151	13	164
Jr. M.Sc.	76	9	85
Sr. M.Sc.	58	7	65
Ph.D.	34	2	36
Total:	591	84	675

5. Staff

During the year, the teaching and other staff of the Faculty (excluding unfilled posts) consisted of 7 Professors, 10 Readers, 37 Lecturers, 42 Demonstrators and Tutors, 56 Clerks, Laboratory Assistants, Technicians and 40 Class IV servants.

Dr. S. P. Pandya of Physical Research Laboratory, Ahmedabad and Dr. D. M. Munshi of St. Xaviers College, Bombay delivered courses of

* Includes one repeater.

lectures on Theoretical Physics and Entomology respectively as visiting lecturers. The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions where science subjects are included in their courses *e.g.* Preparatory Unit, Faculties of Arts, Commerce, Home Science, etc. They also delivered lectures under General Education Programme.

6. Library

There is no separate library or reading-room for Science Faculty. Some departments maintain a skeleton library with books loaned from the University Library—Shrimati Hansa Mehta Library—situated next to the Science Faculty buildings.

The amounts spent during 1960-61 for science books and periodicals were Rs. 9,995/- from Science Faculty Budget of the University and Rs. 49,245/- from the University Grants Commission grant to the University for scientific and technological books. In addition, a sum of Rs. 989/- was spent on building. Some books and periodicals were also purchased from the University Library Budget.

7. Museums, Laboratories and Workshop

The Museums of Botany, Geography, Geology and Zoology Departments were enriched by the addition of specimens and other articles. Good progress was made in the work of preparing a good herbarium in Botany Department.

Various machines were added in the Central Workshop which now has an adequate and competent staff. A Southbend precision lathe with accessories has been given to the workshop as a gift from Wheat-Loan Fund by the Government of U.S.A. The electrician of the workshop was sent for training for six weeks as a refrigeration mechanic. Very useful work of preparation of research apparatus, repairing of instruments and apparatus, glass-blowing, training Physics post-graduate students in workshop practice etc. was done in the Workshop.

With the help of grants from the University Grants Commission and the State Government, substantial additions of scientific apparatus and equipments were made during the year to the laboratories and the Workshop of the Faculty. The following table gives the cost of equipment in the different laboratories during the year 1960-61 :

Laboratory	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1961
	Rs.		Rs.	Rs.
Bio-chemistry	1,19,392	—	43,875	1,63,267
Botany	2,18,040	—	22,411	2,40,451
Chemistry	2,48,796	—	94,210	3,43,006
Geography	1,21,093	—	19,568	1,40,661
Physics (Including Workshop)	3,36,546	—	33,244	3,69,790
Statistics	80,638	—	2,942	83,580
Zoology	1,58,541	—	46,917	2,05,458
	12,83,046	—	*2,63,167	15,46,213

8. Publications of the Members of the staff and students

(a) Research Papers

Sr. No.	Author	Title	Name of the Journal wherein published
1	Sarvashri B. P. Gothoskar, P. N. Raina and Professor C. V. Ramkrishnan	Glucose utilization and change in protein content of cultures of chick and rat heart tissues during cultivation in medium M. 150	Annals of Bio-chemistry
2	Shri A. D. Deodhar and Professor C. V. Ramkrishnan	Studies on human lactation (relation between the dietary intake of lactating women and the chemical composition of milk with regard to vitamin contents)	Journal Tropical Pediatrics. 6, 44, 1950
3	Shri M. G. Karmarkar and Professor C. V. Ramkrishnan	Studies on human lactation (relation between dietary intake of lactating women and the chemical composition of milk with regard to principal constituents and certain inorganic constituents)	Acta Pediatrics 49, 599, 1960

* This includes an amount of Rs. 2,35,661 spent out of University Grants Commission Grant.

Sr. No.	Author	Title	Name of the Journal wherein published
4	Professor C. V. Ramkrishnan	(i) Review on Enzymes (ii) Review on Tissue Culture	Ann. Rev. Bio-chemistry and Allied Research in India, 1960 Antiseptic, 1960
5	Professor V. V. Modi and Kumari D. K. Patwa	Enzymatic synthesis and destruction of carotenoids in mango extracts	Experienta, 16, 353, 1960
6	Professor A. R. Chavan and Shri Y. S. Deshmukh	(i) The ontogeny of extra floral nectaries in the genus <i>Gmelina</i>	Journal of Indian Botanical Society 39(3), 1960
7	Professor A. R. Chavan and Shri S. D. Sabnis	(i) <i>Record of Cryptostegia madagascariensis</i> Boj. from Baroda (ii) New Plant Records from Gujarat (iii) Along the banks of the river Vishvamitri (a floristic study)	Journal Bombay National History Society. December, 1960 Journal Bombay National History Society. December, 1960 Ind. For. 86(8), 1960
8	Professor A. R. Chavan and Shri S. N. Padate	(i) <i>Pulicaria Crispa</i> Benth. A new record for Bombay State (ii) Contribution to the flora of Savli Taluka	Sci. and Cul. 25, 1960 Ind. For. 86(4), 1960
9	Professor A. R. Chavan and Shri G. M. Oza	(i) <i>Jacquemontia pentantha</i> from Pavagadh (ii) <i>Cucumis setosus</i> Cogn. a new record for Bombay	Ind. For. 86(5), 1960 Journal Bombay National History Society, 1960
10	Sarvashri S. S. Lele, N. G. Savant and Professor Suresh Sethna	Chloromethylation of some coumarin derivatives.	Journal of Organic Chemistry, 1960, 25, 1713
11	Shri K. N. Trivedi and Professor Suresh Sethna	3-Hydroxycoumarins	Journal of Organic Chemistry, 1960, 25, 1817

Sr. No.	Author	Title	Name of the Journal wherein published
12	Shri M. V. Shah and Professor Suresh Sethna	Chromones and Flavones Part II. Kostanecki—Robinson Acylation of Indo-derivatives of 2, 4 and 2, 6—Dihydroxyacetophenone	Journal of Chemical Society, 1960, 3899
13	Shri N. H. Shah and Professor Suresh Sethna	Studies in the Hydroxyanthracene series Part II Synthesis of some Heterocyclic compounds from 1-Anthrol	Journal of Indian Chemical Society, 1960, 37, 699
14	Sarvashri S. S. Lele, M. G. Patel and Professor Suresh Sethna	(i) Iodination of some Coumarin derivatives	Journal of Indian Chemical Society, 1960, 37, 775
		(ii) Synthesis of some Bicomarinyl and 8-Phenylcoumarin Derivatives	Journal of the Chemical Society, 1960, (200), 969
15	Shri G. H. Patel and Dr. C. M. Mehta	(i) Synthesis of 2, 4, Dihydroxyquinolines using Polyphosphoric acid as the Cyclizing agent	Journal of Scientific and Industrial Research 1960. 19-B, 436
		(ii) Bromination of 2:4-substituted Quinoline derivatives	Current Science 1961, 30, 15
16	Shri J. M. Trivedi and Dr. C. M. Mehta	Interaction of Atoxyl with the halogen derivatives of Acetoacetarylamides and Cyanacetoarylamides (Part I and II)	Current Science 1960, 29, 431
17	Dr. J. S. Dave and Dr. A. M. Talati	Metal Chelates of L-B-Dioximino-acetoacetamides	Journal of Indian Chemical Society, 1960, 37, 578
18	Dr. J. S. Dave and Shri J. M. Lohar	Mixed Mesomorphism	Proceedings of National Academy of Sciences 1960, A-29, P. III, 260
19	Dr. J. S. Dave and Shri A. R. Patel	(i) Respropiophenone oxime as a reagent for the determination of Copper	Current Science, 1960, 29, 472
		(ii) Respropiophenone oxime as a reagent for the determination of Nickel	Journal of Scientific and Industrial Research 1961, 20-B, 81

Sr. No.	Author	Title	Name of the Journal wherein published
20	Sarvashri V. M. Bhale, K. V. N. Rao and Dr. S. L. Bafna	Reaction of malonic and mono-alkyl malonic acids with halogenis: Part II: some further considerations	Journal of Scientific and Industrial Research 1961, 20-B, 128
21	Dr. S. L. Bafna	Naphthalone Polymers	Indian Plastics Review 1960, 6 (August)
22	Dr. A. M. Talati	Interference corrections for the groupings containing Nitrogen	Journal of Indian Chemical Society, 1960, 37, 702
23	Dr. N. M. Khatri	(i) Results related to the triangular numbers which are squares	Mathematics Student, 1960
		(ii) Notes on some special triangular numbers	London Mathematical Gazette, 1960
24	Shrimati V. A. Janaki	Physical features of Gujarat	60th Session of the Indian National Congress, Bhavnagar 1961
25	Professor D. V. Gogate, and Sarvashri H. S. Desai and R. D. Rao	A Note on Heat-Transfer and Film-Boiling	Indian Journal Physics, 1960, Vol. 34, p. 456
26	Dr. N. S. Pandya and Shri C. J. Shah	Optical Studies on Etched Surfaces	Proc. Physics Conference and Symposium Solid State Physics, C.S.I.R. (1960)
27	Dr. N. S. Pandya and Shri V. P. Bhatt	Etch figures on cleavage plane of Bismuth	Journal of Scientific and Industrial Research September 1960
28	Dr. N. S. Pandya and Shri J. R. Pandya	Crystal Study on Calcite cleavage faces	Jr. of M. S. University, Baroda, Vol. IX. 2 October, 1960
29	Dr. R. V. Joshi	Dispersion of Some gaseous organic compounds	Jr. of M. S. University, Baroda, Vol. IX. 2 October, 1960
30	Sarvashri B. K. Shah and I. R. Patel	A least square estimate of the parameters of the Makeham's Second Modification Curve	Journal of M. S. University of Baroda (1961), Vol. 10

Sr. No.	Author	Title	Name of the Journal wherein published
31	Shri B. K. Shah	Least square estimate of parameters of logistic curve	Journal of M. S. University of Baroda (1961), Vol. 10.
32	Dr. C. G. Khatri	Cumulants and higher order uncorrelations in normal variates	Calcutta Stat. Association Bulletin (1961)
33	Professor J. C. George and Dr. R. M. Naik	(i) Intermuscular fat store in birds (ii) Some observations on the distribution of blood Capillaries in the pigeon breast muscles	Ank. 77, 2, 1960 Ank. 77, 2, 1960
34	Professor J. C. George and Dr. J. Eapen	(i) The oxygen Consumption and oxidation of various metabolites by the pigeon adipose tissue <i>t</i> in vitro (ii) A study of certain bio-chemical properties of the pigeon adipose tissue	J. Ani. Morph. Physio. 7, 1. 1960 J. Ani. Morph. Physio. 7, 1. 1960.
35	Professor J. C. George and I. P. Thomas	(i) A histochemical study of the atrio-ventricular bundle (bundle of His) and the myocardium of the sheep heart (ii) On the lipase activity in the developing chick brain (iii) Loss of lipase activity on storage of cell particulate fractions of the pigeon heart muscle (iv) Lipase activity of the rat heart muscle during post-natal development (v) Certain Bio-chemical properties of the heart muscle lipase	J. Ani. Morph. Physio. 7, 1960 J. Ani. Morph. Physio. 8, 1961 J. Ani. Morph. Physio. 8, 1961 J. Ani. Morph. Physio. 8, 1961 J. Ani. Morph. Physio. 8, 1961

Sr. No.	Author	Title	Name of the Journal wherein published
		(vi) Observations on certain properties of the liver lipase in the developing chick	J. Ani. Morph. Physio. 8, 1961
		(vii) Lipase activity in the heart muscle of a migratory and non-migratory bird	Ank. 1961
36	Professor J. C. George and Shri N. M. G. Bhaktam	(i) Lipase activity in the thoracic muscles of the beetle (ii) The invitro lipase activity in the slow and fast contracting leg muscles of the Cockroach (iii) A quantitative study of succinic dehydrogenase activity in the muscles of a few repr. types of insects (iv) The in vitro lipase activity and butyrate oxidation in the honey bee flight muscle homogenate	Naturwissenschaften, 1960 Nature, 1961 Biological Bulletin Physiological Zoology, 1961
37	Professor J. C. George and Shri S. D. Pish-wikar	Acid phosphatase activity in the pigeon breast muscle	Naturwissenschaften 1961
38	Professor J. C. George and Shri B. M. Hegdekar	Histochemical demonstration of succinic dehydrogenase activity in fat body of the desert locus etc.	J. Histochem. Cytochem. 2, 1961
39	Professor J. C. George and Shri P. M. Ambedkar	Histochemical demonstration of lipase activity in the rat testis	J. Repr. and Fert. 2, 1961
40	Professor J. C. George and Shri N. V. Vallyathan	A comparative study of lipase activity in the blood sera of three repr. birds	J. Ani. Morph. and Physio. 8, 1961

Sr. No.	Author	Title	Name of the Journal wherein published
41	Professor J. C. George and Shrimati S. A. K. Susheela	Effect of starvation on the fat and protein contents lipase and succinic dehydrogenase activities of the rat diaphragm	J. Ani. Morph. and Physio. 8, 1961
42	Professor J. C. George and Dr. C. L. Talesara	(i) On two cases of anomaly of the external jugularveins of the Indian frog <i>Rana tigrina</i> (Daud) (ii) Histochemical observations on the succinic dehydrogenase and cytochrome activity in pigeon breast muscle	British J. of Herpetology, 1961 J. Quart. Mier. Sci. Vol. 102, 1961
43	Dr. R. V. Shah	(i) The mechanisms of carapacial and plastral hinges in Chelonians (ii) The occurrence of a pericardial extension of the lung muscle in some turtles	Breviora No. 130, 1960 British J. of Herpetology, 1961

(b) Other Publications

No.	Author	Title	Name of the Publisher
1	Prof. A. R. Chavan	Introduction to Biology	Acharya, Book Depot, Baroda, 1960
2	Shrimati I. V. Bhanot and Shri N. B. Patel	A Report on an inquiry into Wastage and Stagnation in Universities	Statistical Service Unit, M. S. University Baroda, Jan. 1961
3	Shrimati I. V. Bhanot	Statistical Summary of Medical Examination Reports, 1959-60	Statistical Service Unit, M. S. University Baroda, Baroda, October 1960

9. Literary, Cultural and Other Activities

(1) Statistical Service Unit

The Statistical Service Unit, started in 1959, did useful work of helping institutions and research workers in classification and tabulation of their data and in computation. It also prepared statistical summary of Medical Inspection Reports of 1959-60 and made good progress in the

scheme of Measurement of Wastage and Stagnation in Universities about which it published a monograph. It also started instruction for training Puncters and trained 14 students during the year.

(2) Activities by Teachers

(i) Professor C. V. Ramakrishnan gathered good research experience at the Waite Institute, University of Adelaide, Australia and Tissue Culture Laboratory, Department of Pathology, Institute of Infectious Diseases, Tokyo, Japan. He also visited a number of Biochemical laboratories in Australia and Japan; (ii) Dr. V. V. Modi visited various Biochemical Laboratories in Hyderabad, Bangalore and Mysore under University Grants Commission Unit; (iii) Shri H. R. Chokshi of Biochemistry Department was awarded the Tokyo Rotary Fellowship and had training for year in the Tissue Culture Laboratory of the Institute of Infectious Diseases of University of Tokyo; (iv) Professor J. C. George edited and published issues of Vol. VII of Journal of Animal Morphology and Physiology, India; (v) Several teachers gave talks on All India Radio, Baroda; (vi) Several teachers of the Faculty were deputed to Conferences. The following papers were presented:

Research Papers presented at Conferences:

S.No.	Name	Title	Conference
1	Shrimati V. A. Janaki and Shri M. H. Ajwani	Urban Influence and the Changing Faces of a Gujarat Village	48th Session of Indian Science Congress Association, Roorkee, January, 1961
2	Sarvashri K. R. Dixit and A. T. Desai	Agro-Economic Adjustment in Lower Narbada Valley—A Case Study	48th Session of Indian Science Congress Association, Roorkee, January, 1961
3	Shri B. K. Shah and Dr. C. G. Khatri	Distribution of Definite Quadratic Form for the Non-Central Variates	48th Session of Indian Science Congress Association, Roorkee, January, 1961
4	Shrimati Indira Bhanot and Dr. C. G. Khatri	Standard Errors of the Least Square Estimates of Constants in Makeham's II Curve	48th Session of Indian Science Congress Association, Roorkee, January, 1961
5	Professor A. R. Chavan, Shri S. D. Sabinis and Dr. C. H. Pathak	Preliminary Report of the Observations on the Longitudinal Zonation of Vegetation along River Mahi	48th Session of Indian Science Congress Association, Roorkee, January, 1961

S.No.	Name	Title	Conference
6	Professor D. V. Go- gate and Sarvashri H.S. Desai and R.D. Rao	Heat Transfer and Film Boiling	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
7	Dr. N. S. Pandya & Shri J.R. Pandya	Optical Study of Crystal Cleavages : I Calcite	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
8	Dr. N. S. Pandya & Shri V. P. Bhatt	Dislocation Sites and Etch Pits on Bismuth Crystals	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
9	Dr. C. M. Mehta and Shri G. H. Patel	(1) Formation of Methy- lene Bis Derivatives of Acetoacet Aryla- mides etc. (2) Synthesis of Methy- lene Bis Quinolene Derivatives etc.	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961 48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
10	Dr. C. M. Mehta and Shri J. M. Trivedi	Interaction of Atoxyl with the Halogen Deri- vatives of Acetoacet Arylamides etc.	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
11	Shri K. N. Trivedi	Synthesis of 3-methyl-4- hydroxy Coumarins	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
12	Sarvashri S. S. Lele, Shri M. G. Patel and Professor Suresh Sethna	Synthesis of some Cyano- Coumarins	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
13	Shri M. V. Shah and Professor Suresh Sethna	Synthesis of some Cyano- Chromones and Flavones	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
14	Dr. J. S. Dave and Shri B. R. Panchal	Surface Tension of Liquid Crystals	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
15	Dr. J. S. Dave and Shri J. M. Lohar	Effect of Structure on Transition Temperatures of Mixed Liquid Crystals II	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961

S.No.	Name	Title	Conference
16	Dr. J. S. Dave and Shri A. R. Patel	Estimation of Copper and Nickel by Respropio phe- none	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
17	Dr. A. M. Talati	Boiling Points of n-paraf- fins	48th Session of Indian Science Congress Associa- tion, Roorkee, January, 1961
18	Dr. R. V. Joshi	Luminescence in Solids	Meeting of Indian Physi- cal Society (Gujarat Branch) at Vallabh Vidyanagar, 1960
19	Shri B. S. Yadav	On the Convolution of Two Functions	Annual Conference of Indian Mathematical Society, Chandigarh, 1960
20	Shri J. S. Dave	Mixed Mesomorphism	Annual Session of Na- tional Academy of Sci- ences, India, Allahabad, 1961

(3) *Extra-Curricular activities by students and teachers :*

The students of the Faculty participated in various activities in the University like sports, University Week Competitions, N.C.C. etc. In University Week Competitions, they put in a good performance, securing a large number of prizes and the highest number of points in sports, the second prize in each of the Drama, Garba and Grouping competitions, the first prize for individual best performance in Drama and the first prize in the Light Music Contest. The Students' Association of the Faculty organised sports and held lectures etc. during the year and celebrated the Faculty Day on the 7th February, 1961 under the presidentship of the Vice-Chancellor, Dr. J. M. Mehta, with a well arranged garden party on the lawns of the Faculty.

10. **Co-curricular Activities**

(1) *Societies :* The Societies in the Faculty formed according to the subjects of studies, arranged a number of lectures, discussions, seminars, symposia, etc. and at the end of the year, held their annual functions. On the invitation of these Societies, the following scholars delivered lectures mentioned against them :

Sr. No.	Speaker	Subject
1.	Dr. S. C. Pillai, Indian Institute of Science, Bangalore	Biochemical aspects of Sewage purification
2.	Dr. J. V. Bhat, Indian Institute of Science, Bangalore	The Role of Bacteria in Biochemical Research
3.	Dr. S. L. Mukherji, Sarabhai Chemicals, Baroda	Sulphur Metabolism in Mycobacterium Tuberculosis
4.	Dr. M. R. S. Iyengar, Alembic Chemical Works, Baroda	Tetracycline Fermentations
5.	Mr. B. Srinivasan, Sarabhai Chemicals, Baroda	Recent Developments in Penicillin
6.	Dr. B. V. Mehta, Institute of Agriculture, Anand	Chemical Aspects of Nutritional Status of our Soils
7.	Dr. P. M. Bhargava, Regional Research Laboratory, Hyderabad	Frontiers of Biochemistry
8.	Dr. R. D. Desai, M. G. Science Institute, Ahmedabad	Lambadacher
9.	Dr. S. P. Pandya, Physical Research Institute, Ahmedabad	Elementary Particles
10.	Shri R. P. Patel, Alembic Chemical Works, Baroda	Synthesis of Tuberculostats
11.	Dr. Bhagwant, Sarabhai Chemical Works, Baroda	Dieckmann Condensation
12.	Shri V. V. Divatia, Director of Statistics, Gujarat State, Ahmedabad	Usefulness of Sampling Techniques
13.	Shri N. S. Mani, Sarabhai Chemicals, Baroda	Statistical Methods in Industry
14.	Dr. T. V. Shrinivasan, Alembic Chemical Works, Baroda	Factor Analysis and its Applications

(2) *Study Tours*: Senior students of Botany, Geology and Zoology accompanied by teachers, went on several study tours to make field studies and collect materials for their museums. Students of Chemistry, Physics and Statistics also went on tour to places interesting from the

point of view of their respective subjects, visiting important institutions, factories, etc.

(3) *Film Shows*: Film shows were arranged to supplement classroom teaching and promote general knowledge. A good number of films on scientific and technical subjects were shown in the departments of Botany, Chemistry, Biochemistry, Geography and Statistics.

11. Tests and Class Work

The scheme of holding periodical tests and assigning for them 30% of the marks of final University examination, introduced in B.Sc. and Pre-Medical classes, is now well set. For each subject, at least one test per paper per term and a terminal test with double the weight of one test were held both in theory and practicals, for each of the B.Sc. classes and the Pre-Medical class. Assessment of the answer-book was done by the teachers teaching the subject. The scheme worked satisfactorily. Records of marks were maintained and were submitted to University at the end of the year.

12. Important Events

(a) (i) The Ministry of Scientific Research and Cultural Affairs of the Government of India increased the number of research training scholarships for the Faculty, which are each of the value of Rs. 200/- per month, from nine to thirteen. (ii) The University Grants Commission gave two research scholarships, each of Rs. 200/- per month. (iii) The Council of Scientific and Industrial Research gave, one senior fellowship of Rs. 400/- per month to Biochemistry Department, two scholarships of Rs. 250/- per month to Zoology Department and one scholarship of Rs. 250/- per month to Physics Department. (iv) The Alembic Chemical Company of Baroda gave a donation so that the Alembic fellowship could be increased from Rs. 50/- per month to Rs. 160/- per month. (v) The Khushaldas Charity Trust gave for a year, a research fellowship of Rs. 200/- per month. (vi) The Sarabhai Chemical Company of Baroda gave grants for carrying on certain research work for them in the Biochemistry Department.

(b) (i) Dr. R. V. Shah of Zoology Department returned to the University in June, 1960, after gaining good research experience of one and a half years abroad.

(ii) Professor J. C. George has been invited by Washington State

University, Pullman, U.S.A. to conduct advanced research in the Avian Biology for a year there.

(c) The thesis of the following students were accepted during the year by the University for the award of Ph.D. degree :

No.	Name	Department	Title of the Thesis
1	Shri Jacob Eapen	Zoology	A Histo-Physiological Study on the Adipose Tissue
2	Shri Joshi A. P.	Bio-chemistry	Biosynthesis of Citric Acid in <i>A. niger</i> with special reference to C ₄ Metabolism
3	Shri Khatri C. G.	Statistics	On certain Problems in Multivariate Analysis (Multi-Collinearity of Means and Power-Series Distributions)

CHAPTER X—(A) FACULTY OF EDUCATION AND PSYCHOLOGY

1. Brief History

This institution was started in 1935 as a Secondary Teachers' Training College by the former Government of the Baroda State and was located in the Baroda College building. The College provided courses leading to Diploma in Education for graduate teachers and to the Junior Teachers' Certificate for matriculate teachers. Subsequently, it was affiliated to the University of Bombay for the B.T. Degree in 1938 and the Diploma in Teaching in 1940. A practising high school was also attached to it. The University of Baroda took over the College in 1949 and courses leading to the M.Ed. Degree were started during the same year. During 1950 the College was re-organised into the Faculty of Education and Psychology, and the teaching of Psychology in the University was assigned to the Faculty. The Faculty started courses in Psychology leading to the B.A. (Special) degree in 1952, M.A. degree in 1954 and the Post-graduate Diploma in Guidance and Counselling in 1958. The Faculty has also started Professional Diploma Courses in Educational Administration and Applied Linguistics in 1959. Advanced studies leading to the Ph.D. degree in Education by research was provided in the institution from 1947 onwards and to the Ph.D. degree in Psychology by research from 1952. The Guidance and Counselling Centre for University Students was also started in the Faculty in November, 1959.

2. Building

During the year the Faculty continued to be housed in the same building on the west of the Baroda College area. One additional Hall has been constructed during the year.

3. Courses of Studies

There is provision for the following Courses :

- | | |
|------------------------------|----------------------------------|
| (1) B.A., M.A., and Ph.D. | Psychology |
| (2) B.Ed., M.Ed. and Ph.D. | Education |
| (3) Post-graduate Diplomas : | (i) Educational Administration |
| | (ii) Guidance and Counselling |
| | (iii) Applied Linguistics |
| (4) Diplomas : | (i) Teaching |

Teachers of the Faculty also carried out teaching assignments in other Faculties and Institutions where Psychology and Education are included in their various courses.

4. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1960-61 was as follows :

Class	Men Students	Women Students	Total
A. Diploma :			
T.D.	31	10	41
B. Degree :			
(i) B.Ed.	66	45	111
(ii) S.Y.B.A. (Psychology)	3	22	25
(iii) Final Year (Psychology)	6	16	22
C. Post-graduate Diploma :			
(i) Junior Diploma in Guidance and Counselling	5	—	5
(ii) Senior Diploma in Guidance and Counselling	3	2	5
(iii) Junior Diploma in Applied Linguistics	1	3	4
(iv) Senior Diploma in Applied Linguistics	5	2	7
(v) Junior Diploma in Educational Administration	7	—	7
(vi) Senior Diploma in Educational Administration	5	—	5
D. Post-graduate Degree :			
(i) M.Ed. (Thesis)	13	1	14
(ii) M.Ed. (By papers and dissertation) Junior	22	2	24
(iii) M.Ed. (By papers and dissertation) Senior	14	3	17
(iv) M.A. (Psychology) Junior	2	4	6
(v) M.A. (Psychology) Senior	1	4	5
E. Ph. D. (Thesis)	17	6	23
Grand Total	201	120	321

5. Staff

During the year, the staff of the Faculty consisted of two Professors, six Readers, fourteen Lecturers, one temporary Lecturer, two Tutors and one Demonstrator, and nine Class III and eight Class IV servants. One Counsellor, one Psychologist, one Technical Assistant, one Clerk and one Attendant are working in the University Guidance and Counselling Centre started in the Faculty.

6. Library and Reading-room

The Faculty Library was amalgamated with the Shrimati Hansa Mehta Library and the students make use of that Library. The Faculty also maintains small Departmental Libraries, which need considerable strengthening. The Reading Room which is retained, provides facilities for general reading.

7. Museum and Laboratories

(1) Museum :

The Faculty Museum contains a large collection of teaching aids for illustrating class-room teaching. During 1960-61, as many as 157 projects were added. These were prepared by students under the guidance of the members of the staff. According to present practice every student under training prepares a set of illustrative aids for teaching a selected topic or a series of topics. Selected projects are added to the Faculty Museum.

S. No.	Items	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1961
		Rs.	Rs.	Rs.	Rs.
1.	Museum	9,270=03	500=00	2,169=70	10,939=73
2.	Teaching Aids	950=00	200=00	100=00	850=00

(2) Psychological Laboratory :

The laboratory is equipped with instruments required for psychological experiments. A special section of the laboratory deals with mental tests and includes up-to-date material required for testing intelligence, aptitude, achievements and personality. With the financial assistance of the University Grants Commission additions were made to the apparatus

of the laboratories during the year. The cost of equipment of the Laboratory is given below :

Item	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1961
	Rs.	Rs.	Rs.	Rs.
Laboratory	44,915=69	481=24	6,186=98	50,621=43

(3) Audio-Visual Programme :

The Faculty conducts a course in Audio-Visual Education as an integral part of its teacher education programme at two levels, viz. B.Ed. and T. D. As a compulsory subject, all the B.Ed. and T. D. students are trained in the operation and maintenance of the movie projector, filmstrip projector, episcopes, tape-recorder, etc. Moreover, an intensive course in the preparation and use of audio-visual aids is conducted for those B.Ed. and T. D. students, who offer Audio-Visual Education as a field of specialisation. In co-operation with the Extension Department, seminars and refresher courses in Audio-Visual Education are also conducted for teachers in service.

The cost of the articles for Audio-Visual Aids is given below :

Item	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-61
	Rs.	Rs.	Rs.	Rs.
Audio-Visual	2,395=18	—	3,801=62	6,196=80

8. Publications

The publications are of three types—books, brochures, articles and papers published from time to time in University or other research journals of high academic importance. The following were the main publications of the members of the staff during the year 1960-61 :

(A) Books :

Name	Title	Where published
1 Professor S. N. Mukerji	(1) History of Education in India (modern period), 4th Edition	Acharya Book Depot, Baroda, February, 1961

Name	Title	Where published
	(2) भारतीय शिक्षा का इतिहास (आधुनिक काल)	आचार्य प्रकाशन गृह, बड़ोदा, मार्च १९६१
2 Shri D. G. Apte	Our Educational Heritage	Acharya Book Depot, Baroda, February, 1961
3 Dr. D. M. Desai	(1) भारतीय शिक्षणना चालु सवाल (2) भूगोलशिक्षणना छेला अभि-प्रायो	अ. आर. शेठनी कंपनी, मुंबई २, अप्रिल, १९६० अ. आर. शेठनी कंपनी, मुंबई २, सप्टेम्बर, १९६०
4 Dr. M. S. Patel	The Teaching of English as a Foreign Language (2nd Revised Edition)	Acharya Book Depot, Baroda, April, 1960
(B) Brochures :		
1 Shri J. J. Patel	A New Approach to the Teaching of General Studies	Department of Extension Services, Faculty of Education and Psychology, February, 1961
2 Dr. D. M. Desai	(1) Evaluation in Social Studies (2) Evolution of the Concept of Universalism in Education	D.E.P.S.E. Ministry of Education, Government of India, May, 1960 M. S. University of Baroda, February, 1961
3 Dr. M. S. Patel	The Vowel Systems of Gujarati	M. S. University of Baroda, March, 1961
4 Shri D. B. Desai	(1) समाजविद्यामां शिक्षक आयोजन करे छे अने बाळको अमल करे छे (2) समाजविद्याना शिक्षण तरफ एक नवो दृष्टिकोण	Published by Department of Extension Services, Faculty of Education and Psychology, Baroda, February, 1961 Published by Department of Extension Services, Faculty of Education and Psychology, Baroda, March, 1961
5 Sarvashri K. S. Yajnik and D. B. Desai	समाजविद्याना शिक्षणना अकमोनुं नवी दृष्टि आयोजन	Published by Faculty of Education and Psychology, M. S. University of Baroda, March, 1961
6 Sarvashri D. B. Desai and R. S. Shah	A Survey and Study of Teachers' Attitude Towards Problems of Internal School Administration	Published by Department of Educational Administration, Faculty of Education and Psychology, M. S. University of Baroda, Baroda, March, 1961

(B) Articles and Papers :

Name	Title	Where published
1 Professor S. N. Mukerji	Supervision in Indian Secondary Schools	Education and Psychology Review, January, 1961
2 Dr. M. S. Patel	(1) भाषाविज्ञान अने भाषा-शिक्षण (2) गुजरातनी माध्यमिक शाळा-ओमां इंग्लिशनुं शिक्षण (3) विविधलक्षी माध्यमिक शाळा-ना शिक्षकोनी तालीम	गुजराती अध्यापनना प्रवाहो, मुंबई, मार्च, १९६१ शिक्षण भारती, जान्यु. १९६१ नूतन शिक्षण, जान्यु. १९६१
3 Dr. D. M. Desai	(1) त्रीजी पंचवर्षीय योजनामां माध्यमिक शिक्षण (2) वाणीना भूलनो सुधारो (3) मनोविज्ञानशिक्षणना नवा प्रयोगो	शिक्षण भारती, जान्यु. १९६१ शिक्षण भारती, मार्च, १९६१ शिक्षण भारती, फेब्रुआरी, १९६१
4 Sarvashri L. J. Bhatt and M. N. Palsane	On Forced Choice Technique	Journal of Education and Psychology, October, 1960
5 Shri G. P. Bhatt	(1) Guidance Services in Schools (2) निदर्शन सेवाओ (3) अमेरिकन शिक्षणना प्रवाहो	Progress of Education, February-March, 1961 नूतन शिक्षण, फेब्रुआरी, १९६१ शिक्षण भारती, मार्च, १९६१
6 Shri R. S. Thakar	Social Acceptability among School-going Adolescents	Education and Psychology Review, published by Faculty of Education and Psychology, Baroda, January, 1961
7 Shri J. J. Patel	(1) Integration of Audio-Visual Aids with the curriculum (2) शिक्षणपद्धति अंगे फरी विचार करीअे (3) शिक्षणमां नमूनाओनो उपयोगः क्यारे अने केवी रीते ? (4) शिक्षणमां चित्रो नो उपयोगः आपणे शुं करी शकीअे ? (5) बुलेटिन बॉर्डे अेक जूना साधननो नवो उपयोग. (6) गुजरात राज्यमां दृश्य, श्राव्य शिक्षणनुं आयोजन (7) फ्लेनल बॉर्डे—एक नवुं साधन	Progress of Education, May-June, 1960 नूतन शिक्षण, जुलाई, १९६० नूतन शिक्षण, ऑगष्ट, १९६० नूतन शिक्षण, सप्टेम्बर, १९६० नूतन शिक्षण, नवेम्बर, १९६० नूतन शिक्षण, डिसेम्बर, १९६०, जान्युआरी, १९६१ नूतन शिक्षण, मार्च, १९६१

Name	Title	Where published
8 Shri D. B. Desai	Progressive Matrices Test (1956—version) applied to a group of Secondary School-going Children in Gujarat	Published in Journal of Gujarat Research Society, January, 1961
9 Sarvashri D. B. Desai and J. M. Chaudhary	(1) समाजविद्याना शिक्षणप्रयोगो (2) इतिहासमां शिक्षणपाठोनुं आयोजन	शिक्षण भारती, मार्च, १९६१ शिक्षणपाठोनी रूपरेखा, भा. २, डिसेम्बर, १९६०
10 Sarvashri D. B. Desai and Shrimati Sarojini Desai	(1) समाजविद्याना शिक्षणमां समय-रेखानो उपयोग (2) हिन्दीना शिक्षणपाठोनुं आयोजन	शिक्षण भारती, मार्च, १९६१ शिक्षणपाठोनी रूपरेखा भाग-२, जान्युआरी, १९६१

Besides the above-mentioned publications the Faculty is also publishing two important educational quarterlies, viz., (1) Education and Psychology Review and (2) Journal of Educational and Vocational Guidance. The first Journal was started in January, 1961. It is edited by Dr. S. N. Mukerji, Dean of the Faculty of Education and Psychology. An important feature of the review is the publication of the significant number of research articles contributed by scholars from India and abroad.

The 'Journal of Educational and Vocational Guidance' owes its rebirth to the formation of the All-India Educational and Vocational Guidance Association at Baroda in February, 1956. The Journal is published from this Faculty for the All-India Educational and Vocational Guidance Association.

9. Literary, Cultural and Other Activities

(1) Department of Extension Services :

The Department organised the following items of work during the year :

(a) *The Summer School of Education* This was arranged from the 30th May to the 11th June, 1960. 97 teachers attended the School. The subjects for discussion were: (a) Assignments; (b) Cumulative Record Cards; (c) Guidance in Schools; and (d) Study Habits of School Children.

(b) *Seminars and Workshop*: Eight seminars and Workshops were arranged: (i) English Teachers' Seminar at Baroda; (ii) The Workshop on School Libraries at Baroda; (iii) Lunawada Seminar dis-

Discussing day-to-day problems of instruction in English, Social Studies and General Science; (iv) Amod Seminar on the teaching of English; (v) Seminar on 'Improving instruction in Social Studies', held at Baroda; (vi) Rajpipla Seminar on the 'Teaching of English' and (g) The Workshop on 'Cumulative Record Cards,' held at Mobha Road.

(c) *Exhibitions*: Eight exhibitions were arranged on different aspects of teaching.

(d) *Loan of Library Books and Audio-Visual Materials to teachers and schools*.

(e) *Science Clubs*: The Department helped as many as twenty schools in organising Science Clubs.

(f) *Educational Experiments*: Ten schools are conducting educational experiments under the guidance of the Department.

(g) *School Visits*: The Faculty Staff visited 72 schools during this year, and discussed the academic and administrative problems of the institutions.

(h) *Extension Lectures*: 37 lectures on different aspects of education and psychology were arranged.

(i) *Publications*: Eleven brochures were published during the year under review:

(2) *Rural Education Work*:

The B.Ed. and T.D. students, who had offered Rural Education as their special field, carried out a number of activities in the rural areas especially in Varnama, Chhani and Itola.

A Farmers' Forum was started in Varnama. Lectures were given and discussions were held on topics of vital importance like the technique of composting and the improved methods of cultivation. An agricultural exhibition was organised by this Faculty at Varnama in January, 1961. The main attractions of the exhibition were the maps and charts of agriculture and animal husbandry, samples of improved seeds, fertilizers etc., models of agricultural implements. Educational Films were shown twice to the villagers at Varnama, and a number of charts and projects of Science and Gujarati were displayed for about a week in the school premises for the benefit of the pupils.

10. *Co-curricular Activities*

(1) *The Silver Jubilee Celebrations*:

The most outstanding event of the year in the Faculty was celebration of the Silver Jubilee year. It was inaugurated on the 25th March, 1960, by Dr. S Radhakrishnan, Vice-President, Republic of India, when His Highness [the Maharaja Fatehsinhrao Gaekwad, Chancellor of the University and Shri Hitendra Desai, Education Minister, were also present. A Souvenir was published on this occasion. The inauguration function was followed by a well planned and useful series of courses, mentioned below, organised for the benefit of secondary school teachers:

1. The Summer School of Education,
2. English Teachers' Seminar,
3. Workshop on School Library Science,
4. Teachers' Conference at Lunavada,
5. Seminar and Science Exhibition at Amod,
6. Inter-Collegiate Challenge Shield Debate for Teachers' Colleges of Gujarat.

The Faculty also decided (i) to construct a Summer House on the campus of the University Experimental School, (ii) to institute a Silver Jubilee Gold Medal to be awarded every year to a candidate standing first at the B.Ed. degree examination and (iii) to publish two important volumes—(a) Recent Trends in Education and (b) Recent Trends in Psychology.

(2) *The Faculty Club*:

This club is a very active organisation for Co-curricular activities. During the year it arranged: (a) Periodical lectures and discussions on educational topics by educationists; (b) Elocution competition and educational topics by educationists; (c) Tournaments and competitions in various indoor and outdoor games and sports; (d) Celebrations of Gandhi Jayanti, Kalidasa Jayanti, Tagore Jayanti and other days of national importance; (e) Vajayanti, Tagore Jayanti and other days of national importance; (f) Film-shows and riety entertainment programmes and social evenings; (g) Excursions to Kashmir, Bhakra, exhibitions on educational topics; (g) Excursions to Kashmir, Bhakra, Nangal, Delhi, Andhra State, Kanpur, Roorkee, Shanti-Niketan, Calcutta and Sevagram.

The students of this Faculty also participated in Inter-University Debates and took part in Drama, Garba, Group-Songs and other competi-

tions arranged by the University Union during the University Week and won the Group-Dance Trophy, and prizes in Debate, Drama, Music, etc.

The Faculty has also a number of other organizations, *viz.*, the Psychological Society, Administration Club, Science Teachers' Club, English Teachers' Club, Gujarati Sahitya Mandal, Audio-Visual Club, and the Old Students' Association.

11. Tests and Class Work

Every student of this Faculty is attached to a tutor. He is required to meet his tutor at least once every week. The following items are generally discussed :

1. Day-to-day progress of the students,
2. Solution of problems with which the student is confronted, academic or otherwise, and
3. Important items of work, *viz.*, preparation of teaching aids, term-papers, library work, etc.

The system of tests and class work has been in vogue for the last two years and it has proved useful to the students; it also helps the Faculty staff to get an insight into some of the important problems of the students.

12. Practice Teaching

In the beginning of the academic year a set of demonstration lessons in various subjects was arranged with a view to orienting the pupil-teachers in the general technique of teaching as well as in the specific techniques of teaching certain subjects. Later on, a good number of criticism lessons were arranged with a view to orienting the pupil-teachers in the technique of criticising lessons.

During the course of the year, practice-lessons were arranged in the following schools of Baroda :

- (1) Wadi High School, (2) Bharati Vidyalaya, (3) H. V. Shroff Memorial High School, (4) Shree Sayaji High School, (5) Shree Sayaji Girls High School, (6) Maharani High School for Girls, (7) Jayashree Junior Model High School (8) Jayashree Senior Model High School, (9) Muslim High School, (10) Shree Pratap High School, (11) New Era Girls High School, (12) New Era High School, (13) University Experimental School, (14) Hill Memorial High School, (15) Convent of Jesus and Mary, (16) Jivan Sadhana, (17) M. C. High School (Salatwada), (18) Sardar Vallabhbai Vidyalaya and (19) Baliadev High School, Itola.

This year the off-campus Programme was arranged from the 15th to the 23rd December in following places: (1) Kapadvanj, (2) Sinor, (3) Mehsana, (4) Dabhoi, (5) Cambay, (6) Kalol, (7) Anand, (8) Sojitra, (9) Shuklatirth, (10) Bhadrn, (11) Godhra, (12) Virsad, (13) Kathlal, (14) Bombay and (15) Kadi. The main items of work at each centre were: (a) Demonstration lessons, (b) Practice lessons, (c) Discussions on methods of teaching, teaching aids, C.R.C. testing techniques, etc., (d) Visits to places of educational interest and (e) Cultural Programme.

13. Field Work

The Faculty has introduced field-work in various subjects. It is spread out throughout the year; and the students do their field work in connection with their theory courses and special methods and special fields. The entire scheme of field-work is producing very satisfactory results and is integrating practice with theory.

14. Other Important Events

(1) Among the distinguished visitors to the Faculty during the year were following :

- 1 Dr. K. L. Shrimali, Union Minister, Ministry of Education
- 2 Professor K. G. Saiyidain, Special Officer, Indian Ministry of Education
- 3 Genichiro Isuda, Supervisor in Shizuoka Prefectural Board of Education, 825, Minamiema, Izunangaoka, Shizuoka-Ken, Japan.
- 4 Mr. Joe Wettman, B.B.C. London.

(2) A Seminar of English Teachers was held from the 31st August, 1960 to the 5th September, 1960 under the joint auspices of the Department of Extension Services and the English Teachers' Club, Baroda. Shri V. H. Bhanot, Chairman of the S. S. C. Examination Board, Gujarat State, Baroda, inaugurated this Seminar. This seminar carried on the work under the guidance of Dr. W. R. Lee, Professor of English, Institute of Education, London, and Dr. M. S. Patel and Dr. D. M. Desai, of the University.

(3) Shri M. D. Rajpal, Director of Education, Gujarat State, inaugurated the Seminar of Headmasters and Educational Officers organised under the auspices of Ministry of Education, Government of India, for eight days from the 18th to the 25th February, 1961. Dr. J. M. Mehta, Vice-Chancellor, M. S. University of Baroda, delivered the valedictory address to the participants of the seminar of Headmasters and Educational Officers on the 25th February, 1961.

CHAPTER X—(B) UNIVERSITY EXPERIMENTAL SCHOOL

1. Brief History

The School was taken over by the University in 1951 with Primary I and Class V. Later on, during the same year, the Gujarati Section of the Ex-Baroda High School was taken over by the University with its then existing classes VIII to XI. Gradually, after adding the remaining primary as well as secondary classes, the school became a full-fledged high school serving the purpose of a teacher-and-practice laboratory of the Faculty of Education and Psychology and also of the observation laboratory of the Faculty of Home Science.

2. Building

The School continued to occupy the ground floor of the Faculty of Education and Psychology building with all its facilities of class-rooms, laboratory, craft room and canteen.

3. Courses of Study

The school follows the prescribed syllabus of the S.S.C. Board of Gujarat State, with its educationally supplemented methods of teaching such as projects, excursions, group-study, debates and observations. During the year under report, the school carried on the following projects studies :

Sr. No.	Name of the Project	Subject	Class
(1)	What we take everyday? FOOD	Science	V
(2)	400 A.D. to 1,400 A.D.	Social Studies	VIII
(3)	Crops	Science	VIII
(4)	Time	Science	IX
(5)	Levers	Science	X
(6)	સૌરાષ્ટ્રના લોકગીતો	Gujarati	VIII
(7)	Word-Building	English	VIII

4. Experiments and other Educational Activities

(1) Experiments :

During the year under report, the school mainly concentrated on its Reformed Method of Evaluation and also the Project and Assignment Method of teaching. More stress is laid on these two vital aspects of educa-

tion as they are playing important roles in the future of children. 'Pass' and 'No examination' system which was prevailed in Class VII previously is now also extended to Class IX on a similar basis.

(2) Major Projects :

As the major part of the Project study, a group of children of various classes have combined together and have established a Sahitya Mandal. This Mandal has this year planned the following two major projects for their co-operative study :

- (i) વડોદરાના વિચ્છિન્ન સાહિત્યકારો
- (ii) કવિવર ટાગોર : કલાકાર, કવિ, સાહિત્યકાર અને શિક્ષક.

These two Projects will be completed during the year 1961-62 and its entire report will be published.

(3) Social Studies Club :

The Club was started in order to inculcate international understanding among the children, the Club has been started this year only. The members of the club have carried out the following activities during the year :

- (i) Discussion on Laos, Congo and Cuba ;
- (ii) Talk by Shri Dharma on the Budget ;
- (iii) Panel discussion on the Budget by school children.

(4) Dramatics Club :

The club staged a Drama "જનનીની જોડ" in the University Week and won the first prize in the competition and arranged a discussion on the various phases of Drama by local artists.

(5) School Bulletin :

This year, the school has started publishing a Half-yearly Bulletin viz., "એક્સપેરીમેન્ટલ પત્રિકા". The publication is in an infant stage and is aiming at publishing the entire report of school activities along with some other noteworthy events.

(6) Educational Excursions :

During the year, the School organised excursion tours to (i) Vasad, (ii) Dabka, (iii) Shuklatirth, (iv) Jojwa, (v) Pavagarh, (vi) Sevalia and Vanakbori, (vii) Kakrapar, Bardoli, Vedachhi and Surat and (viii) Siddhapur, Patan, Palanpur and Balarama for the students of different classes of the school. Two reports of the tour have been published.

(7) Attainments in Fine Arts:

Since the inception of the School, more importance is given to the Fine Arts and other parallel creative activities. Sixteen students won prizes in different competitions. A good number of paintings have also been sent for the competitions organised by 'Shanker's Weekly' and to Poland in Europe.

The School has secured 92.5% and 50% results in Elementary and Intermediate Grade Drawing examinations respectively.

5. Strength of the School

The total number of children receiving education at the end of the year were 423: 243 boys and 180 Girls.

6. Staff

The school continued to have a Principal, 16 teachers and 3 Class III and 7 Class IV servants. As an experimental measure 6 part-time student-teachers from the Faculty were appointed.

7. Library

The school maintains a library having about 9,000 children's publications and is very well used by the children. The system of maintaining the Reading record of children is continued. The school also subscribes to journals of educational value and to journals for children.

8. Museum, Laboratory and Picture Gallery

The existing set-up of this is the rich collection of children and the pains-taking labour of its teachers. The art gallery is maintained in a spacious hall of the previous workshop and has become a centre of attraction for all. It contains beautiful paintings of children and also good illustrative paintings of important and renowned artists. It serves the purpose of a teaching and encouraging centre to young artists.

9. Activities and Publications of the Members of the Staff**(1) Activities:**

- (i) Shri G. P. Bhatt, Principal of the School attended various conferences at Ahmedabad, Kanpur and New Delhi. He also directed discussions on Cumulative Records at Vidyanagar and a Section of the Summer School on Guidance in Schools.
- (ii) Kumari R. M. Tachakara attended the fourth course of Teaching of English at the Central Institute of English at Hyderabad.

- (iii) Shri M. C. Joshi was deputed to Kamptee for N.C.C. training in Rifles.

(2) Publications:

The following are the publications by the members of the staff:

- (a) Shri G. P. Bhatt
 - (i) Article on Vocational Guidance in Secondary Schools.
 - (ii) Article on शाळांमं निदर्शन सेवाओ
- (b) Shri A. J. Desai
 - (i) Article on 'Scientists and their requests'
 - (ii) Book on 'Planning Activities in General Science'

10. Festivals and Important events during the year:

During the year, the school (1) celebrated the Parichaya Day, Sharadotsava, 11th University Youth Festival, Physical Education Days, Gandhi Jayanti, Independence Day and Nirvan Day; (2) arranged a 3-day A.C.C. Camp at Varnama during February, 1961 and made an approach road to a school for Harijan students; (3) the students also managed the working of the school for a day; (4) won the Garba Trophy in the 11th University Youth Festival; (5) participated at the Reading Contest organised by the Ramkrishnan Centre, Baroda and won 3 prizes; (6) invited Shri Ravishanker Maharaj, the famous Bhoodan worker for a lecture on the importance of labour in life; (7) arranged a Parent-teacher conference.

CHAPTER XI—FACULTY OF COMMERCE

1. Brief History

The Pratapsinh College of Commerce and Economics, started in 1942 and previously affiliated to the University of Bombay too became a constituent part of the new University in April 1949 and was designated Faculty of Commerce. Instruction is given here to impart liberal education as well as some professional training for careers in business in the public as well as private sectors. The courses of study aim at imparting both a broad background of understanding of social and economic environments and the basic knowledge of the structure of economic and business activity.

The faculty is evolving working relationship with industry and business which are of help to students in their studies. Students visit many industries, bank, etc. for the purpose of observation and thereby make their courses more real and purposeful.

2. Buildings

The Faculty moved to its new building in June, 1959. It is now housed in the first and second floors of the Social Sciences Block building situated to the east of the Baroda College Campus on Lokmanya Tilak Road. The University Grants Commission has sanctioned an amount of Rs. 1,29,000 for the extension of the building for implementation of the Post-graduate Diploma Course in Co-operation and Three Year Degree Course in Commerce.

3. Courses of Studies

There is provision for the following courses :

- | | |
|-------------|--|
| (1) Ph. D. | Economics, Commerce, Banking. |
| (2) M. Com. | Advanced Economic Theory and Organised Markets, Statistics, Econometrics, Banking, Co-operation Finance, Agricultural Economics, Organised Industries, Trade, Transport, Advanced Accounting, Cost and Management Accounts, Law relating to Industrial Relations and Income-Tax, Actuarial Science and Business Organisation |

- | | |
|---------------------------|--|
| (3) B. Com. | Economics, Accounting and Auditing, Banking, Co-operation, Cotton Industries, Advanced Statistics, Public Finance, Transport, Business Management, Business Organisation, Mercantile Law |
| (4) Post-graduate Diploma | Banking, Co-operation |
| (5) Diploma | Co-operation |

The Post-graduate Diploma Course in Co-operation was introduced during the year under report.

General Education has been made a compulsory part of the curriculum for the First and Second Years of three years' degree course, *i.e.* B. Com. The programme is formulated, announced, and organised by the Department of General Education in the field of Humanities.

4. Number of Students

The classwise distribution of students is as under :

Class	Men students	Women students	Total No. of students
Diploma in Co-operation (Under-graduate)	7*	—	7
F.Y. B.Com	337	5	342
S.Y. B.Com	323	4	327
T.Y. B.Com	221	6	227
Post-graduate Diploma in Banking	8	—	8
Post-graduate Diploma in Co-operation	5	1	6
Junior M.Com.	36	—	36
Senior M.Com.	23	—	23
Ph.D.	3	1	4
Total:	963	17	980

* This includes five students of S.Y. B.Com. who have been permitted to join Under-graduate Diploma in Co-operation.

5. Staff

During the year the staff of the Faculty consisted of 2 Professors, 6 Readers, 9 Lecturers, 4 Part-time Professors, 1 Tutor, 5 Class III and 10 Class IV servants. The teaching work in the subject of English, Mercantile Law, Statistics, Mathematics and Local Administration was looked after by the English, Law, Statistics, Mathematics and Politics Department respectively. Some teachers of this Faculty were taking periods in the Faculty of Technology and Engineering.

6. Publication by the members of the staff

<i>Name of the Teacher</i>	<i>Subject of the paper or articles</i>	<i>Name of the Journal wherein published with month of publication etc.</i>
Shri G. P. Asthana	" Organisation of Professional Education for Business "	Indian Journal of Commerce (Journal of All India Commerce Association, March, 1961)

7. Co-curricular activities

The students of Post-graduate Diploma in Banking class went on an Educational Tour and visited Delhi, Agra, Chandigarh, etc. The students of the T.Y. B.Com. Class arranged a trip to Vanakbori. They visited the Dam on the river Mahi and the Associated Cement Factory at Sevalia.

An essay competition was organised in December, 1960 to mark the celebration of the All India Co-operative week. The Faculty held a prize debate and Essay competition to celebrate the National Plan Day. The Faculty participated in all the items of competition during the celebration of the University Youth Festival.

8. Tutorial and Class Work

One terminal examination and two mid-term tests were held in each paper or subject of the Three Year Degree Course and a class record of these was maintained. 30% of the marks in each paper were awarded for this class-record.

9. Other Important Events

- (1) Nawab Mehdi Nawaz Jung, Governor of Gujarat State, Ahmedabad inaugurated the Post-graduate Diploma Course in Co-operation.

- (2) Shri M.A. Master of Bombay gave two lectures on Indian shipping under the Government of Independent India as a Visiting Professor. Shri K. Gopalrao, Assistant General Manager, Bank of Baroda Ltd., Baroda delivered three talks to the Banking students as a Visiting Professor.
- (3) The Dena Bank Trophy Debate was held on the 17th September, 1960 under the Chairmanship of Professor B. G. Shah. The subject of the debate was " In the opinion of this house it is premature to introduce Gujarati as medium of instruction at the University level." The following Commerce Colleges in Gujarat State participated in the debate.
- (i) H. L. College of Commerce & Economics, Ahmedabad,
 - (ii) Gujarat Law Society Commerce College, Ahmedabad,
 - (iii) Faculty of Commerce, Baroda,
 - (iv) Sir K. P. College of Commerce & Economics, Surat,
 - (v) B. J. Commerce College, Vallabh Vidyanagar,
 - (vi) Shri P.D.M. College, Rajkot,
 - (vii) B. J. College of Commerce & Economics, Bhavnagar.

The trophy was won by the H. L. College of Commerce and Economics, Ahmedabad.

CHAPTER XII—FACULTY OF MEDICINE

(A)—MEDICAL COLLEGE

1. Brief History

The scheme of starting a Medical College at Baroda was sanctioned by the former Baroda State Government in the year 1946. A sum of Rs. 40 lacs was set apart for its building and equipment. The College started working from June, 1949. Though it is a constituent college of the University, its financial and administrative control continues with the Government of Gujarat.

2. Buildings

The College is housed in a spacious modern three-storeyed building—three hundred feet in length and breadth. Each floor has a lecture hall to accommodate about 140 students. Besides, there is one main lecture hall with accommodation for 400 students. The Departments of Anatomy and Physiology are placed on the second floor, while Pathology and Pharmacology together with a part of the Ayurvedic Research Unit are accommodated in first floor. The ground floor consists of the department of Preventive and Social Medicine, Administrative Blocks, Library, students' Common Rooms and Canteen. In addition to spacious laboratories for each department, well equipped museums for the Anatomy, Pathology and Preventive and Social Medicine departments also exist. Temporarily the Public Health, Drugs and Excise Laboratories and N.C.C. are also accommodated on the ground floor. A separate animal house, cold storage for dead bodies, Post Mortem Rooms and Ayurvedic, Out Patient Department and Research Sections are in the associated blocks near the Main College Building.

Allied Shree Sayaji General Hospital where clinical instructions are imparted, was the State Hospital of the former Baroda State and has been named after the illustrious ruler Maharaja Sir Sayajirao Gaekwad. Starting with only very few beds in 1865, it has 442 sanctioned beds at present. At this hospital, there are three Medical, three Surgical, two Obstetrics and Gynaecology, one Paediatrics, one Dental, one Ophthalmic and one X-Ray Units, besides a Skin/V.D., E.N.T., Orthopaedics and Anaesthesia Units where the students are posted in the Clinical Terms.

The campus has several attractive buildings as of the Medical College, the Main Hospital Wards, the O.P.D., the Nurses and Resident Staff Quarters etc. The Interns Students are housed on the Campus.

The following are the works in progress :

1. O.P.D. for old cases,
2. Air Coolers for Operation Theatres,
3. Library,
4. Quarters for Professors and Lecturers and
5. Quarters for Class III and Class IV Staff.

3. Courses of Studies

The College conducts courses leading to the degree of M.B.B.S. as well as the following Post-graduate courses :

	<i>Degree</i>	<i>Duration of the course</i>
M.D.	in Medicine Physiology, Pharmacology, Pathology, Obst. & Gyn.	} 3 years after registration
M.S.	in Surgery, Anatomy, Orthopaedics	
Ph.D.	in Pathology, Pharmacology, Physiology, Biochemistry	} 3 years after registration
M.Sc.	in Pathology, Pharmacology, Physiology, Biochemistry	
<i>Diploma</i>		
D.G.O.	Diploma in Obstetrics & Gyn.	} 1 year after registration
D.O.	Diploma in Ophthalmology	
D.A.	Diploma in Anaesthesia	
D.C.P.	Diploma in Pathology	
T.D.D.	Diploma in Tuberculosis Diseases	
D.L. & O.	Diploma in Otolaryngology	
D.V. & D.	Diploma in Venereal Diseases	
D.M.R.E.	Diploma in Medical Radiology and Electrology	
D.Ped.	Diploma in Paediatrics	

Most of these have been inspected and recognised by the Medical Council of India.

4. Number of Students

The number of students enrolled in various classes in the year 1960-61 are as under:

Class	Men	Women	Total
(1) Degree			
First year	46	14	60
Second year	14	5	19
Third year	46	17	63
Fourth year	56	12	68
Fifth year	86	9	95
Total	248	57	305
(2) Post-Graduate Diplomas			
D.G.O.	5	3	8
D.O.	4	—	4
D.A.	2	—	2
D.C.P.	2	—	2
T.D.D.	2	—	2
D.L. & O.	2	—	2
D.V. & D.	3	—	3
D.Ped.	1	—	1
Total	21	3	24
(3) Post-Graduate Degree			
M.D.	19	4	23
M.S.	10	—	10
M.Sc.	5	—	5
Total	34	4	38
Grand Total	303	64	367

5. Staff

The staff of the college consisted of a Dean, 8 Professors, 11 Lecturers, 13 Junior Lecturers, 12 Honoraries, 16 Assistant Honoraries, 10 full-time specialists, 10 full-time officers, 34 Class III and 46 Class IV servants.

6. Library and Reading Room

The following are the figures showing the average daily attendance and the circulation of books etc.

S. No.	Particulars	Number
(1)	Average number of students making use of Library and the Reading Room daily	40
(2)	Average number of teachers making use of Library and the Reading Room daily	19
(3)	Total number of books issued to students during the year	14,807
(4)	Total number of books issued to teachers during the year	1,266

Besides, each department has its small departmental library.

Sr. No.	Particulars	Number	Cost in Rs.
(1)	Books (including back number of Journals as on 1-4-1960)	7,433	1,27,062=07
(2)	Books written off during the year	—	—
(3)	Books added during the year	595	7,460=75
(4)	Books as on 31-3-1961	8,028	1,34,522=82
(5)	Amount spent on binding during the year	350	1,050=00
(6)	Journals subscribed during the year	125	7,163=07
(7)	Total amount spent for Library and Reading Room during the year	—	15,673=82

7. Museum, Laboratory, Studios, Workshop etc.

S. No.	Item	Cost of equipment as on 1-4-1960	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1961
		Rs.	Rs.	Rs.	Rs.
1	Museum (Anatomy, Physiology, Pharmacology, Pathology)	3,20,790	138	200	3,20,852
2	Laboratories	6,08,788	1,776	49,765	6,56,777
3	Studios	13,483	—	—	13,483
4	Workshop	—	—	—	—
Total :		9,43,061	1,914	49,965	9,91,112

8. Publications by the Members of the Staff

Articles or papers published in University or other research journals and books of high academic importance by members of the staff published during the period 1-4-1960 to 31-3-1961 are as under :

S. No.	Name	Title	Name of Journal wherein published
1	Dr. J. D. Pathak	(i) The osmotic effects of some simple molecules and ions on gastric emptying (ii) आपणुं अजायव शरीर	Journal Physiol. (British) 154 pp., 254-269, December, 1960 Parichaya Pustika, No. 55, Bombay, 1960
2	Dr. J. D. Pathak and Dr. B. B. Bhatt	Urinary Sulphur Excretion in Normal Adults of Gujarat	Ind. Sc. Congr. Ass. Abstracts. Physiology Section No. 7, January, 1961
3	Dr. M. G. Amin	Vagus Inhibition and Escape	Journal Ind. Med. Ass. Vol. 36, No. 5, March, 1961
4	Dr. M. L. Pai	(i) Some observations on the study of the effect of various foods on gastric pH and acidity in diseased stomachs (ii) Some observations on urinary pH as influenced by intake of foods, and its relations with gastric acidity and pH (iii) Some observations on the study of the regeneration of liver after partial hepatectomy laboratory rats and its effect on the composition of blood and liver tissue (iv) On the effect of some common milk-preparations administered to human subjects on gastric pH	Ind. Sc. Congr. Ass. Abstracts, Part III, Physiol. Sect. 1961 Ind. Sc. Congr. Ass. Abstracts, Part III, Sect. of Med. and Vet. Sciences, 1961 Ind. Jour. Physiol. and Pharm. Abstracts, Vol. V, No. (1), 1961 Jour. M. S. University, Baroda, Vol. IX, 1960

Sr. No.	Name	Title	Name of the Journal wherein published
(v)		On supplementary findings on urinary pH after ingestion of milk-preparations and its relation with gastric acidity and pH	Jour. M. S. University, Baroda, Vol. IX, 1960
(vi)		Observations on gastric response in normal healthy subjects from Gujarat	Licentiate Vol. 10, No. 1, pp. 8-13, April, 1960
(vii)		Observation on chloride content in gastric samples after ingestion of egg, preparations in normal human subjects	Jour. Anim. Morph. and Physiol., Vol. 7, No. 1, pp. 86-89, June, 1960
(viii)		A study on gastric secretory function by tubeless method as compared with the standard incubation method	Ind. Jour. Med. Res. Vol. 48, pp. 604-609, September, 1960
(ix)		Effect of cooking on amino-acids content of foods cooked by different methods	Ind. Jour. Physiol., Pharma. Vol. 4, No. 3, pp. 191-194, July, 1960
5	Dr. O. D. Gulati and S. D. Gokhale	(i) Anti-inflammatory activity of some Ayurvedic remedies and their influence on the hypophyseal adrenocortical axis in white rats (ii) Effect of some Ayurvedic remedies on the urine output in rats and dogs	Ind. J. Med. Res. 48; 482; 1960 Ind. J. Med. Sci. June, 1960
6	Dr. O. D. Gulati	(i) An investigation of some aspects of Central Nervous System actions of gamma-amino butyric acid and related	J. Pharmacol. Exp. Ther. 129: 178: 1960

Sr. No.	Name	Title	Name of the Journal wherein published
		compounds as assessed by the use of systemic and intracerebral routes of administration in mice	
		(ii) Renal glucose metabolism during diuresis induced by infusions of hypotonic saline	Bull. Johns Hopkins Hosp. 108: 36: 1961
7	Dr. S. D. Gokhale	Pharmacological studies on the Aqueous extract of <i>Ajuga bracteosa</i> (Nilkanthi)	Ind. J. Pharmacol. 22: 278: 1960
8	Dr. S. V. Jalihal and Dr. B. A. Sayed	Resistance of staphylococcus aureus to common antibiotics	Journ. of the Ind. Med. Prof. Vol. 7, No. 1, pp. 3067-3070
9	Dr. K. N. Sahagal, Dr. B. A. Sayed and Dr. N. Srinivasan	Seleroma	Ind. Journ. Otolary. Vol. 12, No. 2, June, 1960
10	Dr. B. A. Sayed, Dr. K. N. Sahagal and Dr. G. V. Merchant	Eosinophilic granuloma of Bone	Ind. Jour. of Ped., Vol. 27, No. 150, July, 1960
11	Dr. B. A. Sayed, Dr. K. N. Sahagal and Dr. A. B. Kothari	Trichobezoar causing Acute Intestinal obstruction	Ind. Jour. Surg. Vol. 12, No. 5, October, 1960
12	Dr. B. A. Sayed, Dr. K. N. Sahagal and Dr. M. A. Patel	Multiple Lymphatic Cysts of the Mesentery	Ind. Jour. Surg. Vol. 12, No. 5, October, 1960
13	Dr. K. N. Sahagal and Dr. B. A. Sayed	Bronchogenic carcinoma in an eighteen year old boy	Jour. Ind. Med. Asso. Vol. 35, No. 9, November, 1960
14	Dr. D. N. Shukla and Dr. B. A. Sayed	Serum cholesterol studies among Gujaratis	Jour. Ind. Med. Asso. Vol. 35, No. 10, November, 1960
15	Dr. K. N. Sahagal and Dr. B. A. Sayed	Ascariasis of the Biliary system	Ind. Jour. Child Health, pp. 609-611, December, 1960
16	Dr. B. A. Sayed, Dr. K. N. Sahagal and Dr. M. A. Patel.	Adenomatoid tumour of the Tunica Vaginalis Testis	Ind. Jour. Path. & Bacteriol., Vol. 3, No. 1, 1960

Sr. No.	Name	Title	Name of the Journal wherein published
17	Dr. K. N. Sahagal, Dr. B. A. Sayed and Dr. Sanat Shah	Giant Cell Pneumonia	Ind. Jour. Patho. & Bacteriol., Vol. No. 3, 1960
18	Dr. M. R. Varde and P. S. Gupte	A note on human full-term foetus with multiple abnormalities	Med. Col., Baroda, Mag. Vol. VI, pp. 15-17, 1960
19	Dr. A. K. Niyogi, Dr. S. R. Trivedi and Dr. P. B. Purohit	Epidemiology of Syphilis and its prevention	Jour. Ind. Med. Asso., Vol. 33, No. 7, 1959.
20	Dr. B. T. Dave and Dr. M. N. Parikh	'C' Reactive protein in Normal pregnancy and Puerperium	Brst. Jour. Obst. & Gyn.
21	Dr. S. D. Ambegaonkar, Dr. C. P. Shah and Dr. Y. B. Dixit	Short term clinical trials with cheloroquine in Rheumatoid	Jour. Asso. of Phy. India, Sept. 1960
22	Dr. A. C. Shah	Shah's sign in different diagnosis of multiple sinuses of the foot	Physical signs by Hamilton Ralley, London—1960
23	Dr. T. V. Patel and Dr. Shrimati N. B. Swami	Investigations done on Rupture Uterus	Ind. Jour. of O. & G., September, 1960

9. Literary, Cultural and Other Activities

During the year under report, 58 films on various interesting and informative subjects were shown to the students and members of the staff.

10. Co-curricular Activities

(1) 82 students with the Professor of Preventive and Social Medicine of this college, visited the following institutions in November, 1960 in Bombay, viz. All India Institute of Physical Medicine and Rehabilitation, Bombay Municipality School Health Services, Victoria Memorial School for the Blind, Imperial Chemical Industries, The Bombay Mothers and Children Welfare Society, Acworth Leprosy Home, Beggars' Home for Men and Women, Infectious Diseases Hospital, Ahmedabad, for beside clinical instructions in I.D. The University contributed Rs. 500/- towards the travelling expenses of this education tour to Bombay.

(2) The students participated in the University week celebrations in December 1960.

(3) Annual Sports of the College were held in December 1960.

(4) Annual Social of the Medical College Students was held in January 1961 (17-1-1961). Hon. Minister for Health, Shri Maneklal Shah, was the Chief Guest.

(5) This college participated in Inter-Medical, Inter-Faculty and Inter-University Sports, Debates etc. during the year.

(6) This year, a special Trophy to Shri Gopinath Menon was awarded for his "Outstanding and consistent brilliance" in Tennis for six consecutive years.

11. Other Important Events

The following distinguished persons visited the College :

	<i>Date</i>
(1) Nawab Mehdi Nawaz Jung, Governor, Gujarat State	10-8-1960
(2) Dr. K. L. Srimali, Education Minister, Government of India	14-8-1960
(3) Dr. Eddy for World Health Organisation	10-11-1960

(B)—SHETH UJAMSHI PITAMBERDAS AYURVEDIC RESEARCH UNIT

1. Brief History

The Sheth Ujamshi Pitamberdas Ayurvedic College was established on 28th June, 1922 in Patan with the help of a donation from Sheth Ujamshi Pitamberdas Modi. In 1952, the University took over the college on condition that the then Government of Bombay gave an annual grant of Rs. 36,000/- for its maintenance, and organised an Ayurveda Research Unit at the Medical College, Baroda. The Unit completed the preliminary organisation work by the end of June, 1954 and started its research activities in Ayurveda.

2. Buildings

The museum, laboratory and the administrative office of the Unit are accommodated in two halls on the first floor in a separate building constructed by the University to the east of the Medical College. A new building for the Outpatient Department of the Unit was completed by the University at a cost of about Rs. 25,000/- in the year 1957-58.

3. Staff

The staff of the Unit consists of a Head (Honorary), a Senior Vaidya, a Research Medical Officer, a Junior Vaidya, an Assistant Research Vaidya, a Research Fellow, two Research Assistants, an Investigator, 3 Class III and 5 Class IV servants. The Dean of the Faculty of Medicine, Baroda, works as the Honorary Head of this Unit.

4. Functions of the Unit.

The object of this Unit is entirely research in Ayurveda. The Unit has a library, a museum of Indian medicinal herbs, a laboratory, a Rasa-shala and an Outpatient Department. 12 beds for research at the S. S. G. Hospital are placed at the disposal of the Unit for Ayurvedic research.

5. Library

This year 18 new books have been added bringing the total to 2,417. Ten Ayurvedic Journals were also subscribed to during the year.

6. Museum

50 groups of medicinal herbs, each consisting of 10 drugs according to the pharmacological classification and therapeutics of Charaka, are arranged in this Museum. Specimens of minerals and other useful drugs have

also been kept. A section of collated literature, publications on certain diseases and drugs is also arranged. There are about 1000 Ayurvedic specimens, 28 Herbarium frames, 75 Specimen jars (fresh herbs preserved in solution), 2 Charts and Maps and 6 Pharmacology frames. About 300 crude drugs, samples and herbarium specimens have been collected to organise a crude drug museum and a herbarium for reference. They are classified alphabetically. A method for cross reference—Ayurvedic and Botanical classification is being evolved. A relief map of India has been placed showing the distribution of important medicinal plants in India. Two rooms in the museum are being used as the administrative office of the Unit.

7. Research

(1) Out-patient Department:

During the year 1,345 patients took advantage of clinical facilities provided by the Unit. The disease spectrum of patients who attended the Department was as follows:

ज्वर—जीर्णज्वर—पाण्डु—उदर—शोथ—अतिसार—ग्रहणी—श्वासकास—गुल्म—शूल—परिणामशूल—ग्रन्थि—विद्रधि—दुष्टव्रण—आमवात—संधिवात—प्रमेह—प्रदर—अपचो—अपस्मार—उन्माद,—त्रातव्याधि—कुष्ठ—कृमि—अग्निमांश—आनाह—राज्यक्ष्मा—स्थौल्य—अर्बुद—अर्श

(2) In-patient Department:

Clinical research: 84 patients were admitted and studied during the year as shown below:

यकृद्राल्युदर-जलोदर १३, प्लीहोदर-जलोदर ७, तमकश्वास ११, शंकुकृमि १५ मधुमेह ३, दद्रुकुष्ठ १०, मनोव्रिघात २५

(3) Research:

The research activities of the Unit have been organised under sub-heads (A), (B), (C) and (D) as mentioned below:

(A) CLINICAL TRIALS OF WELL-KNOWN DRUGS:

(i) Tamaka Shwasa: Clinical effects of Pushakarmoola and Panchakarma Therapy: The reports of this study have been sent for publication.

(ii) Jalodar-Ascitis due to cirrhosis of liver: 20 cases of jalodar were admitted and studied. Arogyavardhani and Punarnavadi Quath were the main drugs clinically tried. The study report of this series is ready for publication.

(B) ACADEMIC RESEARCH IN THE FUNDAMENTALS:

Study of रसगुणवीर्यविपाक of drugs with reference to their pharmacological action was taken in hand. Ten drugs of तिक्ततरस, काषायरस and कटुरस of

each respectively were studied with regard to the identification and recognition of their रस. The work of रसपरीक्षण is over and विपक्तिपरीक्षण of these three Rasas is in progress.

(C) PHARMACOLOGICAL RESEARCH

(i) Diuretics: Work on the following substances (claimed as diuretics in the Ayurvedic system of medicine) has been completed in rats:

(a) Musa Paradisaca root juice (Kadali-Mool Rasa).

(b) Cassia occidentalis (kasu marda) decoction of the powdered root 50 mg./kg. orally.

(c) Trianthena monogyna (white punarnava) decoction of the powdered whole plant, 50 mg./kg. orally.

(d) Pedalium murex (bada gokhru) decoction of the powdered whole plant 50 mg./kg. orally. None of the substances tested had any diuretic activity.

(ii) Nervening tonics: The substances (claimed as nervening tonics)

viz. (a) Hydrocotyl asiatica (Brahmi),

(b) Herpestis monniera (Brahmi),

(c) Nardostachys Jatomanshi (Jatamanshi) and

(d) Celastrus panniculatis (Malkanguni) have been tested for their possible C.N.S. effects in the following ways:

1. Prevention of amphetamine aggregation toxicity,

2. Potentiated narcosis,

3. Electroshock tests.

It has been observed that Malkanguni has an activity like that of "largactil" in protecting mice against amphetamine aggregation toxicity.

(D) PHARMACOGNOSY:

This was started in August, 1958 to explore the possibilities of organising a laboratory to investigate indigenous drugs pharmacognostically. Its important aims are to conduct pharmacognostic and allied studies of indigenous drugs, etc. that are used for research purposes in the Ayurvedic Unit and the Pharmacology Department and through thorough examination establish their purity, genuineness and botanical identity. It is 2½ years old and has acquired a separate laboratory and a drugs-drying store-room, optical instruments, chemicals, books etc.

There is a Research Assistant to carry out research activities and a Class IV servant to look after the medicinal plant garden of the Unit. The



Research Assistant was deputed to attend the Ayurvedic Section of the Scientific Sessions of the Indian Pharmaceutical Congress in December, 1960—January 1961 at Delhi where she read a paper on 'Pharmacognosy in India and its contribution to Ayurvedic Research. She also participated in the seminar on Medicinal Plants arranged by the Central Council of Ayurvedic Research, New Delhi. A map of India exhibit prepared in the Unit was sent to the exhibition organised by the Ministry of Health, Government of India during the World Health Assembly Meeting in February, 1961, in Delhi.

8. Work done by the Allied Departments

The staff of the Allied Departments of the Medical College in collaboration with the staff of the Unit carried out the following work :

- (1) Dr. Y. B. Dixit and Vaidya D. K. Pathak Treatment of Mental disorders with Jatamansi
- (2) Dr. J. M. Desai and Vaidya Y. R. Pandit Treatment of Ascites :
Jalodar due to cirrhosis of liver with Arogyavardhini and Punarnavadi Quath
- (3) Dr. J. M. Desai and Vaidya D. K. Pathak
 - (i) Treatment of Madhumeha with Madhunashini and Bilva patra juice
 - (ii) Treatment of Krumiroga with Shigru, Vidang and Palash bij
 - (iii) Study of the Ayurvedic Arsenical compounds in Tropical Eosinophiliashwas Rogas
- (4) Dr. O. D. Gulati, Dr. S. D. Gokhale and Shri S. S. Karbhari
 - (i) Study of the 'Diuretic Activity' of the following Ayurvedic remedies
 - (a) Banana rhyzone juice
 - (b) Kasuvayee
 - (c) Punarnava
 - (ii) Study of the following compounds :
 - (a) Bada Gokharu
 - (b) Apamarg
 - (c) Kantakari
- (5) Dr. O. D. Gulati and Dr. S. D. Gokhale Work of testing Ayurvedic Nervine tonics :
 - (a) Oil of Malkanguni
 - (b) Fresh juice of Brahmi
- (6) Dr. G. J. Patel, Vaidya D. K. Pathak and Shri S. S. Karbhari Observation on effect of Garmalo (Cassia Fistula) in skin diseases—Kushtha

- (7) Dr. B. T. Dave, Dr. J. M. Desai and Vaidya Y. R. Pandit Clinical trials of Ayurvedic Drugs—Guggulu and Mahayograj Guggulu in Rheumatic diseases mainly rheumetoid arthritis
- (8) Vaidya D. K. Pathak Observation on Mutra-Pariksha by old methods with help of Til-oil drop as mentioned in Chakradatta

9. Rasashala

The following Ayurvedic medicines were prepared in Rasashala during the year :

रसपुष्प, सुवर्णवंग, आरोग्यवर्धनी, रस, पुनर्नवादि क्वाथ, अश्रकभस्म, मृगशृंगभस्म, कज्जलिकोदय, मलहर, श्वासकुठार रस, हिमवष्टकचूर्ण.

10. Garden

50 Ayurvedic herbs are grown in the garden for juices and quaths that are used in Pharmacy preparations and for clinical trials.

11. Clinical Discussions

Clinical discussions on the following diseases were held and recorded :

- (1) Shotha and Jalodar
- (2) Tamaka Shwasa

12. Publications

Name of the contributors	Title of Paper	Publication
(1) Shrimati S. Satako-pan and B. B. Gai-tonde	Malkangani—A Pharmacognostic study	The Indian Journal of Pharmacy, August, 1960
(2) Shri Bhagwan Dash	A Preliminary Clinical Study on "Vaman Therapy in Ayurveda"	"Sachitra Ayurveda", January, 1961
(3) Shri D. K. Pathak	Hookworm	"Bhishag Bharti," March, 1961

CHAPTER XIII—FACULTY OF TECHNOLOGY & ENGINEERING

1. Brief History

The Faculty of Technology and Engineering is a development of the old Institution popularly known as the Kalabhavan Technical Institute, which was established in the year 1890 by His late Highness Maharaja Sayajirao Gaekwad III of Baroda. The Kalabhavan made its beginning by starting classes in Drawing, Carpentry, Dyeing and Calico printing, and within a few years grew into a Polytechnic, offering Diploma and Certificate courses in Engineering (Mechanical, Electrical and Civil), Technology (Dyeing, Bleaching, Printing and Finishing and Weaving), Architecture and Fine Arts (Painting).

With the institution of the Maharaja Sayajirao University of Baroda in May 1949, the Kalabhavan Institute was merged in the newly constituted Faculty of Technology and Engineering. In keeping with development and progress in the pattern of technical education in the country, the University, since its establishment in 1949 till date has made changes in certain old courses and added some new ones at this Faculty as follows :

- (1) Transferred the Fine Arts Section from June, 1949 to the Faculty of Fine Arts ;
- (2) Started 3½ years degree courses in Engineering (Civil, Mechanical and Electrical)—B.E. (C.M.E.)—from June, 1949 ;
- (3) Started a three year degree course in Engineering (Civil, Mechanical and Electrical)—B.E. (C.M.E.)—from June, 1952 replacing progressively old course of three and a half years' duration.
- (4) Started four year degree course in Textile Engineering—B. Text. (Engg.)—from June, 1953 ;
- (5) Started a four year diploma course in Textile Technology—(D.T.T.)—from June, 1953, replacing progressively the old three year diploma course in Weaving Technology—(D.W.T.) ;
- (6) Started a five year degree course in Architecture—(B. Arch.)—from June, 1954 replacing progressively the old four year diploma course in Architecture (Dip. Arch.) ;
- (7) Started a four year degree course in Textile Technology—B. Text. (Tech.)—from June, 1955 ;

(8) Started five year integrated degree courses in Textile Engineering and Textile Technology from June, 1957, replacing progressively the old degree courses in the respective branches of four years' duration ;

(9) Started two year post-graduate courses in Civil, Mechanical and Electrical Engineering M.E. (C.M.E.) from November, 1956 ;

(10) Started a four year integrated degree course in Civil, Mechanical, Electrical Engineering, Textile Engineering and Textile Technology—B. E. (C.M.E.), B. Text. (Engg.) and B. Text. (Tech.)—from June, 1957, replacing progressively the old courses of the respective branches.

(11) Transferred the three year diploma courses in Civil, Mechanical and Electrical Engineering—(D.C.E.), (D.M.E. and D.E.E.)—to the newly established Polytechnic, progressively from June, 1957.

2. Buildings

The buildings of the Faculty comprise the following :

- (1) Main building,
- (2) Hydraulic and Metallurgical Laboratories,
- (3) Gas Room and
- (4) The Workshop and Textile Technology and Textile Chemistry premises.

The construction of the main road running north-south on the Western side of the Faculty building together with approach roads from it to the building at two points and further down to the Workshop building has been completed.

3. Courses of Studies

There is provision for the following courses :

- | | |
|-------------------|---|
| (1) Ph.D. | Textile Chemistry |
| (2) B.E. and M.E. | Civil, Electrical and Mechanical Engineering and Technology |
| (3) B. Text. | Architecture |
| (4) B. Arch. | Textile Chemistry and Textile Technology |
| (5) Diploma | Turner and Fitter, Wireman, Dyeing and Weaving |
| (6) Certificate | |

4. Number of Students

The number of students enrolled in the various classes at the commencement of the year was as under :

(1) Certificate Classes

	Men	Women	Total
Turner and Fitter I year	90	—	90
Turner and Fitter II year	51	—	51
Wireman	29	—	29
Dyeing I year	11	—	11
Dyeing II year	5	—	5
Weaving I year	9	—	9
Weaving II year	15	—	15
Total	210	—	210

(2) Diploma Classes

Diploma Text. Chem. I year	31	—	31
Diploma Text. Chem. II year	35	—	35
Diploma Text. Chem. III year (Final)	54	—	54
Diploma Text. Tech. Pre.	37	—	37
Diploma Text. Tech. I year	34	—	34
Diploma Text. Tech. II year	34	—	34
Diploma Text. Tech. III year (Final)	32	—	32
Total	257	—	257

(3) Degree Classes

F.E. (Civil)	131	1	132
F.E. (Mechanical)	67	—	67
F.E. (Electrical)	64	—	64
F. Text. (Eng.)	18	—	18
F. Text. (Tech.)	13	—	13
S.E. (Civil)	164	2	166
S.E. (Mechanical)	73	—	73
S.E. (Electrical)	76	—	76
S. Text. (Eng.)	19	—	19
S. Text. (Tech.)	19	—	19
T.E. (Civil)	12	—	12
T.E. (Mechanical)	109	1	110
T.E. (Electrical)	116	—	116
	84	—	84

	Men	Women	Total
T. Text. (Eng.)	16	—	16
T. Text. (Tech.)	6	—	6
T. Text. (Tech.) Old	1	—	1
B.E. (Civil)	85	1	86
B.E. (Mechanical)	82	—	82
B.E. (Electrical)	59	—	59
B. Text. (Eng.) Old	11	—	11
B. Text. (Eng.) New	11	—	11
B. Text. (Tech.) Old	2	—	2
B. Text. (Tech.) New	3	—	3
B. Arch. I year	43	7	50
B. Arch. II year	33	5	38
B. Arch. III year	27	1	28
B. Arch. IV year	44	—	44
B. Arch. V year	49	2	51

Total 1,418 20 1,438

(4) Post-graduate Course

(i) Master's Degree—Junior

M.E. (Civil)	6	—	6
M.E. (Mechanical)	5	—	5
M.E. (Electrical)	2	—	2

(ii) Master's Degree—Senior

M.E. (Civil)	4	—	4
M.E. (Mechanical)	—	—	—
M.E. (Electrical)	2	—	2

(iii) Ph.D. (Text. Chem.)

	1	—	1
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Total 20 — 20

SUMMARY

(1) Certificate courses	210	—	210
(2) Diploma courses	257	—	257
(3) Degree courses	1,418	20	1,438
(4) Post-graduate courses	20	—	20

Grand Total 1,905 20 1,925

5. Staff

During the year the staff of the Faculty consisted of 10 Professors, 14 Readers, 60 Lecturers, 4 Part-time Lecturers, 54 Demonstrators, 107 Class III and 82 Class IV servants.

6. Library

(1) Acquisition Notes:

(A) Books: Recurring Grants from the University remained the same and were fully utilised. Grants of Rs. 41,000 and Rs. 5,000, received from the University Grants Commission, for which mention was made in the last year's report have also been fully utilised.

There have been some noteworthy additions during the year *viz.*, British Standard Specifications 1,100; Indian Standard Specifications 450; Russian-English Scientific and Technical Dictionary compiled and edited by A. Bray; English-German Tech. and English Dictionary by Louis De Varies; Encyclopædic Dictionary of Electronics and Nuclear Eng., edited by R. I. Sarbacher; Elsevier's Dictionary of Building Construction in four languages edited by C. J. Van Mansum Co., 1959; A Dictionary of Metallurgy, by A. D. Merrian, 1958; Mc-Graw-Hill Encyclopædia of Science and Technology Volumes 1 to 15, 1960; Encyclopædia of Cathode-Ray Oscilloscopes and their uses by J. Ryder and S. D. Uslan, 1959; Highway Engineering Handbook by K. B. Woods and others, 1960; An Outline of Photogrammetry by K. Schwidewsky, Philosophy of Structures by E. Tarroja, 1958; Indian Temples and Sculpture, Frederic, 1959; Australian Road Practice by Sherrard.

The following statement gives the details of new acquisitions in Faculty of Technology and Engineering Library during the year:

	Books	Bound Periodicals	Pamphlets	Maps and Manuscripts	Total cost in Rs.
Number at the beginning of the year	15,369	2,019	—	—	2,46,660=10
Number added during the year	3,848	18	—	—	48,385=85
					*4,800=36
Number written off from the records	19,217 11	2,037	—	—	2,99,846=31 193=20
Number remaining at the end of the year	19,206	2,037	—	—	2,99,653=11

* Amount for the books received under India Wheat Loan and other sources.

(B) PERIODICALS: The total number of Technical and Engineering periodicals subscribed to during the year stands at 89. 18 volumes of bound periodicals were added to the stock during the year.

(2) Circulation of Books:

The Library and the Reading Room are kept open on all working days from 11 a.m. to 10 p.m. They are also kept open on holidays and Sundays to give more facilities to the students preparing for examinations during examination periods.

The number of readers registered in various categories were as follows:

(1) Post-Graduate and Research Students	37
(2) Undergraduate students	1,363
(3) Faculty and Polytechnic Teachers	150
(4) Others	15
	1,565

The Statistics of Library use are given below:

(1) Daily average number of Readers visiting the Library	200
(2) Average number of books issued per day for home reading	60
(3) Average number of books issued per day from Curricular Collection	75
(4) Average number of books issued per day for reference	30
(5) Total number of books issued per day for reading	165

7. Museum, Laboratories, Studios, Workshops, etc.

Sr. No.	Item	Cost of equipment as on 1-4-1960	Cost of equipment, etc. written off during the year	Cost of equipment, etc. added during the year	Cost of equipment as on 31-3-1961
		Rs.	Rs.	Rs.	Rs.
(1)	Laboratories, Workshops and Studios, etc.	33,10,046=11	—	76,664=93	33,86,711=04

8. Publications by the members of the Staff

The following are the publications of the members of the staff during the year:

(1) *Articles or Papers:*

Name/s	Title	Name of the Journal wherein published with month of publication
Dr. J. S. Dave and Dr. A. M. Talati	(i) Estimation of Palladium α B-Dioximino Acetoacetanilide	Journal of Indian Chemical Society, 1959, Vol. 36, page 179
	(ii) Estimation of Nickel by α B-Dioximino Acetoacetanilide	Journal of Indian Chemical Society, 1959, page 302
	(iii) Metal Chelates of α B-Dioximino and Acetoacetamides	Journal of Indian Chemical Society, 1960, Vol. 37, page 578

(2) *Books:*

Name/s	Title	Name of Publisher with month of publication
Professor K. H. Patel, Sarvashri R. C. Patel and S. C. Sheth	Mechanical Technology, Vol. II	Acharya Book Depot, Baroda, October, 1960

9. Literary, Cultural and Other Activities

(a) A Literary Association functions in this Faculty:

Lectures and talks on various subjects of general and engineering interest by prominent persons are arranged by this Association for the benefit of the students and the staff. In order to develop the art of public speaking amongst the students debates are also arranged by this Association. Students, of this Faculty take part in various Inter-Faculty, Inter-University and other debating elocution contests. During the last five years the students have won various prizes and trophies at such contests e.g. the Vice-Chancellor's Trophy, Wadia Trophy.

(b) Elocution Contests, etc.:

(1) Two students of the Faculty participated in the Wadia Trophy Debate in English and won the first prize.

(2) Six students participated in the Art Exhibition, 1961 organised by the Gujarat Government and won a number of cash prizes.

(3) One past-student of the Architecture Department of the Faculty participated in the Art Exhibition, 1961, organised by the Government of Maharashtra and won the first prize of Rs. 2500/-.

(c) The Students' Chapter (The Institution of Engineers [India]) started functioning during the academic year with 220 students as members of the chapter. Under the auspices of the chapter and the Literary Association the following lectures were delivered:

Date	Speaker	Subject
1 16-7-1960	Dr. K. G. Tejwani, Soil Conservation Officer, Government of India, Ministry of Road and Agriculture, Vasad	Soil and Water conservation Research in the Ravine lands of Gujarat
2 3-9-1960	Shri V. D. Tank, Executive Engineer, Public Health Works Division, Baroda	Broad outlines of water-supply project
3 2-12-1960	Shri G. G. Dhanak, Superintending Engineer, Central Designs Organisation, Gujarat State, Ahmedabad	Grouting of Alluvium
4 25-1-1961	Shri Allan Monkhouse, C/o. Jyoti Ltd., Baroda	The employment of small Hydro-electric generating units for Rural Electrification
5 31-1-1961	Shri S. S. Surana, Principal, Railway Staff College, Baroda	Functions of the Railway Staff College and Engineers' Role

The Chapter also organised industrial visits to Messrs. Jyoti Ltd., and Alembic Chemical Works Ltd., Baroda and tours to Sabarmati Power House, Ahmedabad and Sevalia Cement Factory, Sevalia.

(d) Generally, the students of the final year degree and diploma classes take part in seminars. Students prepare and read papers on select-

ed themes relating to the subjects of their study and participate actively in the discussions. As many as 46 seminars were held during the year.

(e) The Annual Faculty Day was celebrated on the 10th February, 1961. Dr. (Smt.) Hansaben Mehta was the Chief Guest on the occasion.

10. Co-curricular activities

(1) Excursions and Tours:

Students of B.E., T.E., B.Text. Eng., B.Text. Tech., T.Text. Eng., T.Text. Tech., Architecture II, III and IV year degree classes and all the final year diploma classes in Textiles, and Geology and M.E. students were sent out on educational tours to places of particular interest in their respective branches of study, the period in each case extending to about two weeks.

(2) Exhibition of Educational Films:

The Faculty has a stock of 16 films on various subjects of Educational interest and also 14 strips of 35 m.m. films. Every year additional films are obtained on loan for use from different organisations. 40 films were shown during the year.

(3) Publication of Faculty Magazine:

The Faculty magazine was published during the year 1960-61.

(4) Dramatic and Music Association:

This year the Association participated in the Inter-Faculty competition held by the University Week Celebration Committee. The Association took part in (a) Group song, (b) Drama and (c) Garba and won the first prize in Group song, the third prize in Drama and the M.S. University Union President's special prize in Garba.

(5) Co-operative Stores:

The working of the store was satisfactory. The total sale during the year amounted to Rs. 21,314=37 nP.

11. Test and Class Work

Attendance at the Terminal Examination, tutorial, periods and tests was compulsory. The system of giving credit for work done during the term is followed. Regular records of the class work and practical tests of the students are maintained. In deciding the Annual Results of all examinations whether conducted by the Faculty or University, the marks obtained by the candidates in their terminal examinations, tutorials, class work and tests are taken into account as mentioned below:

Theoretical subjects: 30 percent of the maximum marks for the examination in each subject (20 percent for class tutorials, records etc. and 10 percent to be awarded for *Viva-voce* etc.) for degree classes while 20 percent of the maximum marks for examination in each subject for diploma classes.

12. Other Important Events

(1) Distinguished Visitors:

During the year the following were the distinguished visitors to the Faculty:

- 1 Nawab Mehdi Nawaz Zang, Governor, Gujarat State, Ahmedabad
- 2 Dr. K. L. Shrimali, Minister for Education, Government of India, New Delhi
- 3 Shri A. K. Chanda, Deputy Minister for Works, Housing and Supply, Government of India, New Delhi
- 4 The Swiss Delegation consisting of (i) Dr. F. Reis, (ii) Mr. R. Schucpp and (iii) Mr. F. Claus

(2) Grants from the University Grants Commission:

With the financial aid given by the University Grants Commission and the State Government under the Development and Expansion Schemes and General improvement of the Library and Reading-room of the Faculty, it has been possible to strengthen the existing Laboratories, Library etc. by purchasing additional equipment, apparatus, books and furniture. This has enabled the Faculty to meet the needs of the increased number of students.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Brief History

The Faculty of Fine Arts started working from July, 1950. In May, 1949 an organiser was appointed to make the preliminary arrangements. He visited centres of Fine Arts at Delhi, Nagpur, Banaras, Patna, Shantiniketan, and Calcutta. By May, 1950, the Syllabi and the scheme of Examinations for Degree and Diploma courses in Fine Arts were approved, necessary books, furniture and equipment were purchased and some staff was also appointed. The Faculty started admitting students from July, 1950. The Post-graduate courses in the Faculty were started from June, 1954.

2. Buildings

The Faculty is located in Pushpa Baug on the University Road. It comprises of (1) Academic block, (2) Painting and Applied Arts Studios, (3) Sculpture Studio, (4) Pottery and Ceramics and Bronze-casting Shed, (5) Stone-carving Shed, (6) Process and block-making workshop, (7) Exhibition Hall, (8) New Block (for Office staff, studios, Library, Lithography, Photography, Wood-crafts and Printing studios).

3. Courses of Studies

The Faculty offers the following courses :

- (1) Post-graduate Degree Course in (a) Painting, (b) Sculpture, (c) Applied Arts, (d) Art Education and (e) Art Criticism.
- (2) Post-graduate Diploma course in Museology.
- (3) Post-Diploma Specialization Course in (a) Painting, (b) Sculpture and (c) Applied Arts.
- (4) Degree Courses in (a) Painting, (b) Sculpture, (c) Applied Arts, (d) Architecture (under the administration of Dean, Faculty of Technology and Engineering).
- (5) Diploma Courses in (a) Painting, (b) Sculpture, (c) Applied Arts and (d) Textile Design.
- (6) Certificate courses in (a) Wood-crafts, (b) Lithography, (c) Photography, (d) Process and Block-making, (e) Bronze-casting, (f) Pottery and Ceramics and (g) Printing.

4. Number of Students

The number of students enrolled in various classes at the commencement of the year was as under :

Class	Men	Women	Total
(1) Certificate			
First year	10	4	14
Second year	3	3	6
(2) Diploma			
First year	23	6	29
Second year	13	—	13
Third year	17	3	20
Fourth year	5	1	6
(3) Post-Diploma			
Junior	1	—	1
Senior	1	—	1
(4) Degree			
First year	21	5	26
Second year	21	2	23
Third year	13	7	20
Fourth year	11	—	11
(5) Post-graduate Diploma			
Junior	4	—	4
Senior	2	—	2
(6) Post-graduate Degree			
Junior	8	—	8
Senior	5	—	5
Grand Total	158	31	189

5. Staff

During the year the staff consisted of 2 Professors, 4 Readers, 15 Lecturers, 1 Honorary Professor, 1 Part-time Instructor, 2 Demonstrators, 3 Tutors, 1 Printer, 2 Technicians, 1 Technical Assistant, 1 Taxidermist, 1 Part-time Photographer, 6 Class III and 16 Class IV servants.

6. Library

(1) Acquisition Notes

(A) BOOKS: The Library received a grant of Rs. 3,000 from the University as usual and it has been fully utilised. Lapsed grant of Rs. 400 for the purchase of books was also renewed.

Noteworthy acquisitions during the year: Encyclopaedia of World Art, 2 Vols.,

The following statement gives the details :

	Books (including back number of journals)	Pamph- lets	Total value in Rs.
Number at the beginning of the year	3,133	44	45,909=83
Number added during the year	220	50	3,399=63
	3,353	94	49,309=46
Number withdrawn from the record	—	—	—
Number remaining at the end of the year	3,353	94	49,309=46

(B) PERIODICALS : The total number of periodicals and scholarly journals subscribed for, now stands at 29. The total amount spent for subscription of periodicals is Rs. 905=16. The total number of bound periodicals added during the year is 89. The total amount spent for binding is Rs. 408=36.

(2) *Circulation of Books etc.*

The statistics of the use of the library is given below :

- | | | |
|-------|---|----|
| (i) | Average number of students making use of the library | 40 |
| (ii) | Average number of teachers making use of the library | 20 |
| (iii) | Average number of books issued per day for Home Reading (Issued only to the staff members and post-graduate students) | 20 |
| (iv) | Total average number of books issued per day for reading on the premises as well as for Home-reading | 60 |

7. Museums, Laboratories, Studios, Workshops, etc.

Sr. No.	Item	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1961
		Rs.		Rs.	Rs.
1	Studios, Workshops, Painting, Sculpture, Applied Arts, etc.	99,542=88	892	34,196=34	1,32,847=22
2	Museology	6,734=07	—	21,063=09	27,797=16
	Total	1,06,276=95	892	55,259=43	1,60,644=38

8. Literary, Cultural and Other Activities

The following lectures and demonstrations by experts were arranged in the Faculty during the year :

Sr. No.	Name	No. of lectures	Subject
1	Miss Dorothy L. Clerk, Director of Library Services, U.S., Bombay	1	American Art
2	Dr. Grace Morley, Director, National Museum of India, New Delhi	3	(1) Role of UNESCO in the Development of Museums (2) Collection and Display of Art objects (3) Development of Modern Art from the beginning of the 19th Century to date

Professor V. R. Amberkar was invited as Visiting Professor to give lectures in the subject of Art History to the Post-graduate students of this Faculty. He delivered 40 lectures during the year.

9. Co-curricular Activities

(1) The Faculty arranged Annual Study Tour in November to Bhuvaneshwar, Puri, Konarak etc., which are all important Art centres. The party also visited the Caves of Khandagiri and Udaygiri of the Mauryan Period.

(2) A series of lectures and demonstrations was arranged for Sarvashri S. M. Ali, Assistant Curator, H. A. Mitter, Taxidermist, deputed by the Zoological Survey of India, Calcutta, on the subject of Diaramas and Habitate Group Case Technique.

(3) An Exhibition of selected Italian Graphic Arts sent by the Indian Committee for Cultural Freedom was arranged in this Faculty from the 15th to the 25th July, 1960.

(4) The Department of Museology arranged a training programme of six weeks for the Post-graduate students in the Salar Jung National Museum, Hyderabad. The staff and the students re-organised a small section of the children's section in the Museum and established a working conservation Laboratory.

10. Other Important Events

The following distinguished visitors visited the Faculty during the year :

	<i>Name</i>	<i>Date of Visit</i>
1	Dr. K. L. Shrimali, Minister for Education Government of India, New Delhi	4-5-1960
2	Mr. Henri Dumont French Consul General	2-8-1960
3	Mehdi Nawaz Jung, Governor, Gujarat State	11-8-1960
4	Professor W. Milojeie and Professor Paul, Members of the Cultural Delegation from the Federal Republic of Germany	27-11-1960
5	Professor K. G. Saiyidain, Special Officer, Ministry of Education, Government of India, New Delhi.	13-12-1960

Awards, Prizes and Noteworthy Purchases :

1. Eight students and four staff members of the Painting Department, three students of the Sculpture Department, five students and one staff member of the Applied Arts Department and three students of the Graphic Art Department won prizes, gold or silver medals, etc. in various exhibitions, shows and competitions.

2. The sculpture exhibits prepared by Shri B. R. Panchal, a student of the Sculpture Department were purchased by the Lalit Kala Academy, National Gallery of Modern Art.

3. One print prepared by Shri Jayant Parikh was purchased by National Gallery of Modern Art, New Delhi.

4. Two graphic prints prepared by Shri Vinodray Patel were purchased from a graphic exhibition of Indian Artists in Lugano, Switzerland.

CHAPTER XV—FACULTY OF HOME SCIENCE

1. Brief History

The former Baroda State Government created on 17th December, 1948, the Women's Educational Trust Fund to establish a Home Science College in Baroda. The Trust appointed an organizer for the College in May, 1949 and in July, 1949 a Nursery School was started with 50 children on the roll. The University took over the fund and on 3rd July, 1950 established the Faculty of Home Science in one of the old buildings of the University, with 40 students on its roll, studying for the degree of B.Sc. (Home). The Faculty provided for instructions for the Master's Degree in (i) Foods and Nutrition and (ii) Child Development from June, 1955. In November, 1957 the new section of Kindergarten was started in Chetan Balwadi.

The Home Science Wing, which was started from 18th June, 1956 is attached to the Faculty. The Post-graduate Diploma course in Nursery School Education was started from June, 1959.

2. Buildings

The new building, completed at the cost of Rs. 6.59 lakhs, was occupied by the Faculty in June, 1952. It provides adequate class-rooms, laboratories, workshops, conference and seminar rooms, library and reading-room and an administrative office. In addition it has a canteen, and an auditorium with seating arrangements for 300 persons. Chetan Balwadi (a nursery school attached to the Faculty) is accommodated in the west wing on the ground floor. The Maharani Shanta Devi Home Management House was constructed in the compound of the Faculty at a cost of Rs. 64,000. In 1957, the new department of Clothing and Textiles was constructed over the west wing at a cost of Rs. 54,500. A new Home Management House is being constructed at a cost of Rs. 16,000. The total cost of all the buildings is Rs. 8,41,000. Extension of the additional laboratory and class-rooms is under construction.

3. Courses of Studies

There is provision for the following courses :

- | | |
|----------------------|-------------------------|
| (1) B.Sc. (Home) and | (i) Foods and Nutrition |
| M.Sc. (Home) | (ii) Child Development |



The Governor of Gujarat visiting the Faculty of Home Science

- (2) Post-graduate Diploma Nursery School Education
 (3) B.Sc. (Home) (i) Economics of Household and Home Management
 (ii) Home Science Education and Extension
 (iii) Clothing and Textiles

The revised syllabus was introduced during the year 1957-58. In the new course of B.Sc. (Home), the first three years are devoted to a core course, which acquaints the students with the different phases of Home Science. In the fourth year the students have to select any one out of the above five fields of specialisation. A specially designed course in Humanities and Science is offered by the department of General Education.

4. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1960-61 is as under :

Class	Number
(a) B.Sc. (Home)	
First Year	115 (including Advanced students)
Second Year	98
Third Year	60
Fourth Year	49
(b) Post-graduate Diploma in Nursery School Education	3
(c) M.Sc. (Home)	
(i) Junior	6
(ii) Senior	5
Total	336

5. Staff

The staff of the Faculty consisted of 1 Professor, 2 Readers, 13 Lecturers, 9 Demonstrators, 3 Tutors, 2 full-time and 1 part-time teachers, 11 Class III and 20 Class IV servants. The Faculty continued to receive the help of the staff of other Faculties for teaching various courses.

6. Library

The Faculty has a well-equipped library and reading-room. The library remains open from 8-00 a.m. to 6-00 p.m. on all working days.

The library received a grant of Rs. 5,000 from the University Grants Commission and Rs. 5,000 from the University.

(A) Books :

The following statement gives the details of the new acquisitions to the library :

	Books	Bound Periodicals	Pamphlets	Manuscripts	Maps and charts	Total Value
1 Number at the beginning of the year	6,243	287	250	—	—	50,130=87
2 Number added during the year	585	46	25	—	—	9,350=40
	6,828	333	275	—	—	59,481=27
3 Number withdrawn from the records	—	—	—	—	—	—
4 Number remaining at the end of the year	6,828	333	275	—	—	59,481=27

(B) PERIODICALS :

The total number of periodicals and scholarly journals subscribed for the library now stands at forty-four. Twenty five volumes of bound periodicals were added to the stock during the year.

(2) Circulation of Books :

Timings of the Library: Monday to Friday—8 a.m. to 5 p.m.
 Saturdays—8 a.m. to 1 p.m.

The number of readers registered in various categories were as follows :

1. Post-graduate students	8
2. Under-graduate students	320
3. Research students, scholars, assistants	—
4. University Teachers	20
5. Others	3

The statistics of library use are given below :

1. Daily average number of readers visiting the library	90
2. Average number of books issued per day for home-reading	30

3. Average number of books issued per day—Curricular collection 70
4. Average number of books issued per day for reference 50
5. Total average number of books issued per day for reading 150
6. Average number of Fiction books issued per day for home-reading. 10

7. Museum, Laboratories and Workshops

The Faculty started a collection of articles for the Museum. Most of the articles are at present kept with the departments. They will be shifted to the main Faculty Museum soon. The Department of Child Development received a large collection of toys from friends and well wishers of the Faculty for the Toy Museum of the Balwadi. The following table shows the total cost of equipment in the Museum, Laboratories and Workshops :

S. No.	Items	Cost of equipment as on 1-4-1960	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1961
1.	Museum, Laboratories and Workshops	2,27,479=92	Nil	24,598=63	2,52,078=25

8. Literary, Cultural and Other Activities

The Department of Home Science Education and Extension arranged several lectures and demonstration on various topics for different economic groups. This year, these demonstrations were held in different localities of the city. Some members of the staff were sent as delegates to various conferences where they read papers and participated in discussions.

9. Co-curricular Activities

- (1) The departments of Child Development, Foods and Nutrition, Clothing and Textile and Home Science Education arranged educational tours to different places of interest and studies.
- (2) The students of the Faculty participated in Inter-Faculty debates, games, group-songs, group-dances and also in the Youth Festival.
- (3) The students and staff celebrated social functions as well as the Annual Faculty Day.

- (4) The Department of Home Science Education and Extension arranged film-shows on every Friday.

(5) Seminars, Workshops and Exhibitions :

- (i) The Department of Child Development arranged a Workshop on Art in Nursery School from the 27th to the 31st January, 1961;
- (ii) The Department of Clothing and Textile arranged an Exhibition on Children's Clothing from the 24th to the 27th of March, 1961.

10. Tests and Class-work

The Faculty follows the system of Grade Credit to assess and evaluate the work of the students in all theory and practical classes. Every teacher maintains a diary or a class-record in respect of each student taking the course. The students' performances during a term in the subjects in areas of practicals, tests, regular assignments, term-papers, reports, class-work and special projects are evaluated on a four-point scale and the grades earned by the student in each area of the sessional work are entered in her class record. All these grades are averaged and counted as half the total grades for the term. The advisory system adopted by the Faculty has helped the students with their scholastic and personal problems.

11. Other Important Events

The following were some of the distinguished visitors to the Faculty during the year :

- (1) Nawab Mehdi Nawaz Jung, Governor Gujarat State 11-8-1960
- (2) Japanese Young Farmers' Delegation 4-2-1961

12. Chetan Balwadi

The Chetan Balwadi which serves as a practising school for the students of the Faculty of Home Science was started in July, 1949 with 50 children on its roll. The Department of Child Development conducts this nursery school for children between the ages of 2 and 5. It is located on the ground floor in the West Wing of the Faculty and is furnished with suitable furniture, equipment, apparatus, etc., for the education of children of the above-mentioned age-group. The Head of the Child Development Department works as the Superintendent of this school. In the year 1957-

58 a new section of Kindergarten class for 25 children was started. The number of children in the Balwadi and the Kindergarten is as under :

	Boys	Girls	Total
(i) Kindergarten	13	12	25
(ii) Chetan Balwadi	25	35	60
Total	38	47	85

A full-time Social Worker was appointed and she helped the students, teachers as well as parents to understand their difficulties. The Parent-Teacher Committee was very active this year. Many parents came to observe the activities and helped the teachers in the Balwadi routine. Discussions on Reports of children with the parents were encouraging. A Workshop on Child Development was held in January, 1961. Mr. Suresh Namle from Bombay was the guest speaker. The Governor of Gujarat and the Maharaja and Maharani of Bhavnagar paid a visit to the Balwadi during the year. A research study on the height and weight of Pre-school children was undertaken in co-operation with Dr. Russell Smart of Rhode Island University. Another research study on Dependence-Independence of children was undertaken in co-operation with Dr. Elinor Wardwell.

13. Home Science Wing

The Ministry of Agriculture, Government of India is conducting an intensive programme of rural development in the country through the National Extension Service Blocks for raising the standards of living, health and happiness of the rural population. In this programme the Ministry requires a large number of Gram Sevikas *i.e.* Women Village-level Workers who are well-equipped to work in rural areas and to help the women there to raise the standard of living in the rural community. With this end in view, the Ministry decided to start 25 Centres in the country to train such workers. One out of the two centres offered to the former State of Bombay, is run on their behalf by the University as the 'Home Science Wing' in the University estate of Tara Niwas. Necessary additions and alterations were made at a cost of over Rs. 50,000/- for providing a training hall with class-rooms, laboratory, an administrative office and residential accommodation for the teachers and the trainees. The Wing started functioning from 18th June, 1956. The Wing has so far conducted 4 batches and has turned out 66 trainees who have now been posted as Gramsevikas in Development Blocks of the State Govern-

ment. The fifth batch has been started in October, 1960 and 37 trainees are under training.

The staff consists of one Chief Instructress, three Assistant Instructresses, two Class III and three Class IV servants.

The course is of one year's duration and instruction is imparted in subjects *viz.* Family, Foods and Nutrition, Clothing, Mother and Child Care, Housing and House Management, Health and Sanitation, Handicrafts and Cottage Industry, Agriculture, Kitchen-gardening, Co-operation and Home Science Extension. The Principal and the staff of the Gram Sevak Training Centre, Baroda have been co-operating in the teaching of some of the above subjects. The subjects are taught in theory and practicals in class, and practised in daily living in hostels. The Wing arranged cultural programmes, study tours, village camps, farewell programmes to the trainees and celebrated the Independence Day and other festival days.

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. Brief History

The Baroda School of Social Work was started in March, 1950 with the aim of training professional social workers on the lines of scientific knowledge available in the field at the post-graduate level. It started functioning on 20th July, 1950 and was in the beginning a part of the Faculty of Arts. In March, 1951, the School was established as a separate Faculty under the Maharaja Sayajirao University of Baroda giving instruction for the Degree of Master of Social Work (M.S.W.).

The Rural Work Centre at Atladra was established in 1950 to give experience to students in rural set-up and one more village Bil was added within a year. The Centre at Atladra was discontinued, and, instead, another centre at village Tandelja was established in the year 1959-60. The Camp Road Community Welfare Centre was organized in the Camp Area in the year 1950 with the purpose of offering field work training facilities for students available in community welfare area and serving the needs of the community.

The Mental Hygiene and Psychiatric Clinic was started on the 21st July, 1952, in Shri Sayaji General Hospital, Baroda, with a view to serve the public need and also to offer field work facilities to the students of social work.

The Social Education Organizers' Training Centre was started in January, 1955 under the Faculty at Samiala. It serves as an inservice training centre for the Mukhya Sevikas who work as specialists in charge of Social Education in the Development Blocks.

2. Buildings

The Faculty is housed in a new building constructed at a cost of Rs. 3,26,000/- out of the grants from the University Grants Commission and the State Government.

3. Courses of Studies

The Faculty provides instruction in a two-year post-graduate course leading to the degree of Master of Social Work. The curriculum of the course consists of class-room work, field work and research.



The Governor of Gujarat visiting the Faculty of Social Work

4. Field Work, Rural Work, Study Tours, etc.

(1) *Field Work*: The main emphasis continues to be on practical training and the application of academic knowledge to day-to-day life situations. Since 1956-57, junior students were given group supervision in the first term, and from second term the students continued to be supervised individually. Seventeen agencies co-operated with the Faculty in offering valuable practical training to the students.

(2) *Rural Work*: In order to help the students interested in rural development work, the Rural Work Department of the faculty is running centres at two villages (Bil and Tandelja). The programmes in these villages have been so designed as to include all aspects of community life, social, economic, political and cultural. The students are required to learn at first-hand about the various aspects of rural community development that are carried out, and find out how best the various process of social work are applicable while dealing with the community as a whole, and various groups in particular. As a result of student's work the community gets direct services which promote the overall development of the village community itself.

The following types of activities are being carried out at these villages.

- I Social Education with Youth League :
 - (i) Organising recreational activities, games, bhajans dramas, discussions, etc.
 - (ii) Adult literacy
 - (iii) Civic education
- II Women's Groups
 - (i) Home improvement
 - (ii) Vocational training (tailoring)
 - (iii) Group discussions
 - (iv) Recreational activities
- III Girls and boys groups
 - (i) Recreational programmes
 - (ii) General Education programmes
- IV Work with the Panchayats, Co-operative Society, School, with a view to co-ordinate the overall activities, help them in maintaining, planning and executing development programmes.

V *General*: Running clinics, Health Education programmes, milk distribution, conducting surveys, publication of monthly bulletins (Gram Vikas), organizing film-shows, maintaining an information bureau, keeping liaison between Government and village people.

The villages and their leaders are thus being helped to understand that they should have more reliance on the community and their resources and depend less on governmental help. In both villages a good awareness has developed, and the Panchayats are getting more and more interested in the Village Welfare programmes.

(3) *Fateh Gunj Samaj Kalyan Kendra*: The Fatehgunj Samaj Kalyan Kendra has increased its capacity to provide field work placement to students from 9 to 10 in order to enable them to apply the various methods of Social Work. The Kendra functions as a community welfare agency providing services to children, women and men. During this year recreational group activities, subsidiary diet and nutrition, distribution of library books, film-shows, social education groups and community contacts were continued. Interest group activity has been introduced. Recreational and educational activities have been started in the Machhi Peeth area where the majority of the members hail from the Harijan community. A Full-time Agency Supervisor has been appointed to supervise Faculty students placed at this agency and to continue the activities of the agency during the vacations and thereby maintain the continuity of the Centre.

(4) *Mental Hygiene and Psychiatric Clinic*: The clinic was established on a part-time basis in Shri Sayaji General Hospital in July, 1952 and has started working full-time since 1954. The purpose of the Clinic is to provide field work placement for training of Psychiatric Social Workers, to offer Mental Hygiene and Psychiatric services to the community and to work towards building a mental hygiene program in the community. The staff consists of a Clinical Psychologist, three Psychiatric Social Workers and a clerk on a full-time basis and an honorary physician on a part-time basis.

During the year four students of the Faculty were under training. They were assigned selected case loads with a view to help them learn the nature of mental illness and various aspects of the treatment. They were supervised by the staff of the clinic. Medical students continued to be assigned in small batches for a period of a fortnight. The staff members

discussed with them symptomatology of mental illnesses and the broad principles of work with the mentally ill.

Since the establishment of the clinic in July, 1952, till the end of March, 1961, the clinic registered a total of 2,264 cases. During the year the clinic rendered services to 418 cases, out of which 322 cases were new and 96 were carried over from previous years.

The clinic staff in collaboration with the Research Department of the Faculty of Social Work has undertaken a group research project 'A Study of the Mental Illness as reflected in the cases closed between July, 1958 and March, 1960.' The clinic also co-operated with Sheth U. P. Ayurvedic Research Unit in carrying out a Pilot Research Project on the use of one of the Ayurvedic drugs on emotionally ill patients. After the publication of the first exploratory report of the research project 'Identifying Social Work Potentials—Through Projective Tests', the clinic planned out further work to validate the battery of tests used.

(5) *Study Tour and Camps*: Senior class students, 31 in number, were taken to Bangalore on a Study Tour from the 19th to the 29th December, 1960. Junior class students, 35 in number, were taken on a Camp to Chorwad Road (Saurashtra) from 19th to 24th December, 1960. Two staff members accompanied both the Study Tour and Camp. They had an opportunity to visit various social work institutions at Bangalore and Chorwad Community Development Block and other places of interest.

5. Number of Students

The number of students enrolled in the Junior and Senior Classes at the commencement of the year 1960-61 was as under:

Class	Men	Women	Total
Senior Class	28	9	37
Junior Class	29	10	39
Total	57	19	76

6. Staff

The staff of the Faculty consisted of 2 Professors, 1 Reader, 7 Lecturers, 3 Part-time Lecturers, 1 Agency Supervisor, 8 Class III and 7 Class IV servants.

The Mental Hygiene and Psychiatric Clinic had one Clinical Psychologist, 3 Social Workers, one Class III and one Class IV servants.

The staff in the Social Education Organisers' Training Centre consisted of 1 Director, 1 Reader, 5 Lecturers, 2 Art Instructors, 1 Lady Home Economist, 9 Class III and 10 Class IV servants.

7. Library and Reading-room

(1) Acquisition Notes :

(A) BOOKS :—The Library received a grant of Rs. 5,600 from the University this year and it has been fully utilized.

There have been some noteworthy acquisitions during the year viz. Current Central Labour Code by Jain and Jain, Cyclopedic medical dictionary by Taber, Experimental designs in sociological research by F. S. Chapin, Community Organization action and inaction by F. Hunter, Robert's nutrition work with children by E. A. Martin, The Indian factories and labour manual by R. Mathrubutham, The dynamics of planned change by R. Lipitt, The illustrated encyclopædia of sex by Willy, Issues in American Social Work by A. J. Khan, Social Work in the American tradition by N. E. Cohen, The language of social research by P. F. Lazarsfeld etc.

A film viz. "Children's Emotions" costing Rs. 1,044/- was purchased during the year.

The following statement gives the details of acquisition of Faculty Library during the year :

	Books including back number of Journals	Pamphlets	Total value in Rupees
Number at the beginning of the year	4,277	550	32,708=56
Number added during the year	360	100	2,999=61
	4,637	650	35,708=17

(B) PERIODICALS : The total number of periodicals and scholarly journals subscribed to now stands at 64. The total amount spent for subscription etc. is Rs. 1,104=27. 56 volumes of periodicals bound were added to the stock during the year.

(2) Circulation of books, etc. :

The Library remains open from 8-00 a.m. to 5-30 p.m. on week days and from 8-00 a.m. to 3-30 p.m. on Saturdays. It is also kept open on

some of the Sundays and Holidays in order to give more facilities to the students preparing for examinations.

The statistics of the Library use are given below :

1. Daily average number of students making use of the Library	67
2. Daily average number of teachers making use of the Library	16
3. Average number of books issued per day for home-reading	55
4. Total average number of books issued per day for reading	70

8. Publications by Members of the Staff

The following papers and/or articles were published by the members of the staff during 1960-61 :

Name of the Teacher	Title	Name of the Journal and month of publication
1. Professor Shrimati A. M. Muzumdar	"Social Work in Gujarat"	66th Session Indian National Congress Souvenir, Bhavnagar, January, 1961, in English and Gujarati
2. Shri S. K. Majmudar	"Whom does a Mental Hygiene Clinic serve?"	Magazine of the Medical College, Baroda, June, 1960, Vol. VI

9. Literary, Cultural and Other Activities

The staff of the Faculty participated in the wider field of social work. In addition to their varied responsibilities and duties at the Faculty, the staff members have taken active interest in the development of the field at large. They have participated in various national conferences.

10. Co-curricular Activities

(1) Study Tour : The staff members are provided with opportunity to visit sister institutions for keeping in touch with developments in the field as well as to promote closer contact and public relations. This year 4 staff members were deputed along with the students on study tour and Camp.

(2) *Participation on various Committees*: Shrimati A. M. Muzumdar, Shrimati I. S. Tayal, Sarvashri G. G. Dadlani and J. K. Motwani and Kumari J. P. Patel participated in various national conferences. Shrimati Tayal was also appointed on the Nomination Committee of the International Schools of Social Work, 1959-61.

(3) *Students' Association and Students' Emergency Loan Fund*:

Besides belonging to the University Union, the students of the Faculty run an Association for Educational and Recreational purposes. Over the past seven years, they built a loan fund. Every year they add a small amount from the collection received from the members of the staff and students of the Faculty. The sum is set aside for rendering assistance to the needy students of the Faculty. So far twenty-three students have availed themselves of this facility. This year the Students' Association ran the Faculty Canteen in the interest of students and staff members.

(4) *Socials*:

Under the auspices of the Students' Association, an outing was arranged at Vasad in February, 1961.

(5) *Sports*:

The students organized annual sports and conducted it with enthusiasm.

(6) *Debates, Talks, etc.*:

Debates, Lectures by distinguished visitors and Social gatherings were arranged throughout the year.

The students participated actively in the farewell functions to Shrimati I. S. Tayal and Kumari I. M. Patel who proceeded to U. S. A. for further studies and accorded a cordial welcome to Professor (Shrimati) A. M. Muzumdar who joined the Faculty during the year.

On the occasion of the 10th Anniversary Celebrations of the Faculty in November 1960, the students gave an entertainment programme. The students have also participated actively in the "Faculty-Agency Day" programme held in February 1961.

During the XI University Youth Festival, the students of this Faculty participated in a number of competitions and won three prizes, one for the group dance and two for individual performances. In the debate held in the Faculty of Commerce, under the auspices of the Planning Forum, one of our students won the second prize.

(7) *Film-Shows*:

Some films covering subjects taught in classes were obtained from foreign embassies and other bodies and were used to demonstrate certain aspects of technical subjects.

(8) *Magazine*:

The seventh issue of the "Social Work Review" Magazine was published in July, 1960. Some well-known people in the field of Social Work and members of the staff have contributed articles in this issue.

11. *Tests and Class-work*

The method of teaching adopted in the Faculty lays emphasis on class participation of students, and seminar discussions at post-graduate level are encouraged and implemented as far as possible. Individual supervision forms an important part of the Faculty's programme. Each student is assigned to a member of the staff for the purpose of discussing problems arising out of his field work experience; regular weekly conferences are held for this purpose. The student is helped to learn to put theory into practice. Similarly, for research guidance, the students hold regular conferences with their research guides which facilitate a close supervision of the students' day-to-day progress.

12. *Other Important Events*

(1) The Joint Directors, Dr. B. Gupta, Dr. N. B. Jetmalani and Dr. S. K. Mitra of the B. M. Institute of Psychology and Child Development, Ahmedabad, visited the Mental Hygiene and Psychiatric Clinic during April, 1960 to see the working of the Clinic.

(2) This year the Faculty celebrated its 10th Anniversary in the month of November, 1960. To commemorate the occasion the inaugural session of the Association of Schools of Social Work in India was held when the delegates from various schools of social work were invited. A two days Seminar was also arranged on "The Role of Schools of Social Work in Social Welfare Planning, Policy and Programmes in India under the Chairmanship of Dr. J. F. Bulsara.

(3) A Seminar on "Social Work Education as preparation for work in the field" was arranged by the Faculty during the month of February, 1961.

(4) The following visitors have visited the Faculty during the year:

- (i) Nawab Mehdi Nawaz Jung, Governor of Gujarat State,
- (ii) UNESCO Study tour for young workers in Asia—Visit of Japanese group to India,
- (iii) Mr. Eugene C. Warmman, Junior Representative from the State Department of the U. S. Government.

(5) Alumni Association: Since its inception, the Association has striven to establish close contacts between the Faculty of Social Work and its alumni. It acts as a central bureau of information transmitting news of employment opportunities and related matters to its members.

Across the country there are signs of interest in the Alumni Association of the Faculty of Social Work. From the modest steps taken in the year 1952 the Alumni Association has grown as a central body to foster the establishment of a rapidly growing list of local chapters—at Ahmedabad, Delhi and Bombay.

The Alumni Association is assuming a most active role in facilitating exchange of ideas and experience among the alumni with a view to maintain a high standard of professional efficiency and morale. This is achieved through periodical seminars; the annual publication of News Letter 'Knot' and frequent informal social gatherings.

The following figures will show the employment situation of alumni of the Faculty:

<i>Field of Employment</i>	<i>No. of Graduates</i>
1. Labour Welfare	60
2. Medical and Psychiatric Social Work	15
3. Correctional Administration	14
4. Public Welfare	7
5. Rural Welfare and Community Development	9
6. Family and Child Welfare	2
7. Research	5
8. Social Work Education	22
9. Other and Unemployed	25
Total	159

13. Social Education Organizers' Training Centre, Samiala

The Centre is a constituent Unit of the Faculty of Social Work, situated about 8 miles from Baroda on the road to Padra. It is one of the eleven Social Education Organisers' Training Centres in India and receives grants from the Ministry of Community Development and Co-operation, Government of India. It is an inservice training centre for the Social Education Organisers who are in charge of Social Education programmes in C. D. Blocks along with Other Extension Workers.

The Centre was started in January, 1955 exclusively for women who underwent specialized training for three months after the five months' regular training for Social Education Organisers' Work. 64 trainees from 16 States were trained in two batches. In January, 1956 the Centre was converted into a five months' training Centre for both men and women. 94 men and 77 women from 8 States were trained in 6 courses of training. In 1959, the Ministry revised the training programme so as to make it longer—6½ months for men and 10½ months for women. Since March, 1959, the Centre is training only women S.E.Os, known as Mukhya Sevikas. 48 women trainees from 6 States have been already trained in two batches. The training Centre has thus trained 94 men and 187 women—a total of 281 C.D. Functionaries. In December, 1960, at the instance of the Government of Gujarat, the Centre trained 155 non-official members (171 men and 14 women) working in Block Development Committees of Baroda Division during the conduct of 6 courses.

The new syllabus for the Mukhya Sevikas with emphasis on practical skills was used for the first time. The theoretical portion of the studies emphasised the Social Science knowledge as applied to the rural situation. Increasing use of new communication techniques like audio-visual aids, role playing, etc. were also used. Field work, agency visits, village camps, study tours, village placements and Block-placements were also carried on during the year.

The staff of the centre including the postal staff consists of one Director, one Special Instructor (Reader), five Lecturers, two Art Instructors, one Lady Home Economist, nine Class III and ten Class IV servants. Fourteen part-time Lecturers were also invited for the second long term course.

The Centre also maintains a library and a reading-room. It has a stock of 704 books at a cost of Rs. 3,755. The Library continued to get publications of the Government of India, etc. free of cost.

Sarvashri J. C. Kavoori and S. H. Shah were deputed to attend Conferences and Seminars on subjects concerning Social Education. Smt. B. A. Shah was deputed to undergo training at Trainers' Training Institute (recently christened the Institute for Instruction on Community Development) at Rajpur.

The Centre also runs a Health Clinic with the assistance of Government Doctors of Padra Health Unit. The total number of Clinic days was 102 and the patients 2,143. A grant of Rs. 2,500/- was sanctioned by the University towards the maintenance of the Clinic. An Art-cum-Cultural Festival, a Katha, one workshop, one seminar and Child Art Exhibition were arranged during the year. The Centre was also visited by a number of distinguished visitors.

CHAPTER XVII—ORIENTAL INSTITUTE

1. Brief History

The Baroda Central Library, which was established by the former Government of Baroda in 1910, had a Sanskrit Section consisting of manuscripts and printed books. In 1915 this Section started publication work under the Gaekwad's Oriental Series. The work of this Sanskrit Section gradually expanded and in 1927 it was separated from the Central Library and made an independent institution named as Oriental Institute and placed in charge of a Director with necessary technical and administrative staff. In 1931, the Translation Branch of the office of the Commissioner of Education, which was publishing books in Gujarati, Marathi and Hindi, was also transferred to the Oriental Institute. When the Institute was taken over by the University in 1949 it had a good record of publications—109 volumes in the Gaekwad's Oriental Series and 516 other books.

2. Building

The Oriental Institute was transferred from the Government building called the Record Tower Building to Shrimati Hansa Mehta Library Building, ground floor, in the compound of the Faculty of Arts, from the 25th January, 1958.

3. Staff

After the shifting of the Institute to its new premises the Ramayana Department was re-organised and made a separate section of the Oriental Institute from 1st April, 1958. Dr. B. J. Sandesara, M.A., Ph.D., Professor and Head of the Gujarati Department was appointed as the Director of the Oriental Institute from the 1st April, 1958. Dr. Sandesara continued to be the Head of the Gujarati Department in the Faculty of Arts. Professor G. H. Bhatt, M.A., was appointed as the General Editor and Head of the Ramayana Department in the Oriental Institute.

During the year, the staff consisted of 1 Director, 1 Deputy Director, 3 Research Officers, 7 Class III and 5 Class IV servants, as also the temporary and permanent members of the Ramayana Department including 1 General Editor and Head of the Ramayana Department, 2 Superintendents, 2 Research Officers, 15 Ramayana Assistants, 1 Ramayana Artist, 10 Part-time workers, 2 Class III and 2 Class IV servants.

4. Work of the Institute

The main work of the Institute is research and publications of unpublished important works carried on with the help of a very big collection of manuscripts and the collection of printed books on all subjects related to Indology.

The publications are under the following titles :

- (1) Gaekwad's Oriental Series
- (2) M. S. University Research Series
- (3) Journal of the Oriental Institute (Quarterly)
- (4) M. S. University Oriental Series (published in the Journal of the Oriental Institute)
- (5) Critical and Illustrated Edition of the Valmiki Ramayana
- (6) The Maharaja Sayajirao Memorial Lecture Series
- (7) Shri Sayaji Sahityamala
- (8) Shri Sayaji Balajnanamala
- (9) Shri Sayaji Gramavikasamala
- (10) Matushri Jamnabai Smarak Granthamala
- (11) Shri Shishujnanamala

5. Post-graduate Teaching

Besides the above, as a part of the scheme of Co-ordination of the teaching of 14 Shastras of Sanskrit in the University 7 members of the Institute are recognised as Post-graduate teacher in Sanskrit for guiding M.A. and Ph.D. students. The Director, the Deputy Director, the Head of the Ramayana Department and a Research Officer guided Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture and also took M.A. classes in Sanskrit and Gujarati. 15 Ph.D. students and 35 M.A. students were guided by the Post-graduate teachers of this Institute during the year.

6. Manuscripts Section and Printed Section

(1) Manuscripts Section

This Section has already a collection of 20,631 MSS in Sanskrit, Prakrit, Pali, Apabhramsha and other classical Indian languages of which 3,149 were added during the year. Out of these 252 were purchased and 2,897 were received as gift.

During the year, 40 MSS were lent to outside Institutions, 14 to local students and 219 were issued to different scholars for work on the premises of the Institute, while 14 MSS were borrowed from outside institutions.

The Manuscripts collection of the Oriental Institute is becoming richer by the addition of new collection every year and includes several MSS of Historic value for their subject-matter and for the historical information in their colophons. There are MSS in almost all the scripts of India including Persian and Arabic as well. The MSS collection of the Oriental Institute can easily be developed as a archival collection of National importance.

(2) Printed Books (Reference) Section

The Institute has well-equipped Library having a collection of 22,935 books. The working hours of the Library are from 11-00 a.m. to 5-30 p.m. on week days and 11-00 a.m. to 3-00 p.m. on Saturdays.

(a) Acquisition notes

(i) BOOKS

The Library received as usual a grant of Rs. 5,000/- for Printed Section and Rs. 500/- for Ramayana Department from the University for the purchase of books and periodicals and the grant has been fully utilised.

There have been some noteworthy additions during the year *viz.*, wall-paintings from ancient shrines in Central Asia, 2 vols. by F. H. Andrews; Corpus Inscriptionum Indicarum, Vol. IV, pts. 1 and 2 ed. by V. V. Mirashi; Buddhist Cave paintings at Tun Huang by Basil Gray; Studia Indologica by Willibald Kirfel; La Sculpture de Bharhut, by A. K. Coomaraswamy; Altindische Grammatik by Jakob Wackernagel, Vols. 1 and 2.

The following statement gives the details of acquisition during the year :

	<i>Books including bound periodicals</i>	<i>Total value Rs.</i>
Number at the beginning of the year	22,230	2,02,413=00
Number added during the year	705	6,814=22
	22,935	2,09,227=22

Out of the total number of the books added during the year, 436 books were purchased at the cost of Rs. 5,451=37 nP. and 269 books were received as gifts and on an exchange basis.

(ii) PERIODICALS: The total number of periodicals and scholarly journals subscribed for and received on an exchange basis now stands at 21,598 volumes of bound periodicals were added to the stock during the year.

(b) Reference work etc.

The Library is built as a Reference Library, known as the Oriental Printed Section and is under supervision of the University Librarian. The statistics of the library use are given below :

- (i) Average number of students making use of the Library 75
 (ii) Average number of teachers making use of the Library 65

A bibliography on Jainism was compiled in response to request from readers.

Under Inter-Library Loan service eight volumes of Bhrgu Samhita were lent for reference to the Bhandarkar Oriental Research Institute, Poona. Asiatic Society, Calcutta, Asiatic Society, Bombay and the Deccan College of Post-graduate and Research Institute, Poona, were among the institutions who helped in lending books for reference to this institution.

7. Gaekwad's Oriental Series

Editing and publication of the Series is one of the main activities of this Institute. Uptill now 135 volumes have been published under this Series.

During the year the following works were published :

- (1) GOS No. 129 Pada-Index of Valmiki Ramayana, Vol. I, by Professor G. H. Bhatt
 (2) GOS No. 132 Ullagharaghava of Somesvara edited by Muni Shri Punyavijayaji and Professor B. J. Sandesara
 (3) GOS No. 133 Sangitopanisadsaroddhara, edited by Dr. U. P. Shah
 (4) GOS No. 134 A Dictionary of Sanskrit Grammar by Professor K. V. Abhyankar
 (5) GOS No. 135 A Catalogue of Palm-leaf MSS in the Santinath Bhandar in Cambay by Muni Shri Punyavijayaji.

The following works are under print, the progress of which is as under :

- (1) Vaisheshika Sutra with Vritti of Chandrananda pp. 1-160+51
 by Muni Jambuvijayaji Tibetan plates
 (2) Dhurtaswamibhasya—Vol. II pp. 1-8

- (3) Vishnudharmottara Purana Vol. II—by Priya-bala Shah pp. 1-208+8
 Word index
 (4) Manasollasa Vol. III—by Shri G. K. Sri-gondekar pp. 1-248

Since the University Publications Sales Unit was started the sale of all University publications was transferred to the Sales Unit from 1st December, 1959.

8. Translation Branch

This branch of the Institute carries on the publication work of the books under series Nos. 6 to 11 mentioned in para 4.

The following books were published during the year in this series :

- (1) Shri Sayaji Sahityamala :
 1. ' प्रो. त्रि. क. गज्जरनी जीवनकथा ' by Dr. Ashwin M. Trivedi and others
 2. ' गुजराती भाषाशास्त्र, भा. २ ' by Professor K. K. Shastri
 3. ' आपणुं विश्व ' by Shri Chhotubhai Suthar
 (2) The Maharaja Sayajirao Memorial Lecture Series :
 1. ' Planning and Freedom and Pattern of India's Economy ' by Shri G. L. Mehta
 2. ' The Story of Our Earth ' by Dr. S. Bhagavantam

The following works were in the progress :

- (1) Shri Sayaji Sahityamala :
 1. ' मीरांबाहू एक मनन ' by Dr. M. R. Majamudar
 2. ' आपणी खनिजसंपत्ति ' by Dr. N. M. Shah
 3. ' हरिभद्रसूरि.... ' by Professor H. R. Kapadia
 (2) Shri Sayaji Gramavikasamala :
 1. ' लोकनाट्य अने गामडुं ' by Shri Jashavant Thakar
 (3) Shri Sayaji Balajnanamala :
 1. ' टोमस आल्वा एडीसन ' by Shri G. N. Mehta

9. Ramayana Department

(1) Collation Section

The Collation of the first six kandas is almost over, while that of the Uttarakanda is completed in fourteen MSS and is at different stages in seven MSS, only six MSS are to be collated.

(2) *Editorial Section*

The constitution of the text upto the Aranyakanda is completed while that of Kiskindhakanda has begun.

(3) *Critical Apparatus Section*

The Critical Apparatus upto Sargas 72 of the Ayodhyakanda is ready, while that of the sargas upto 85 is under preparation.

(4) *Publication*

The first fascicule of the Ayodhyakanda containing sargas 1-40 (pages 248) is ready for publication. The first volume, Balakanda, of the Critical Edition of the Ramayana, has been very favourably received by scholars.

(5) *Scrutiny*

The General Editor scrutinized the constituted text in order to maintain the uniformity of standard.

(b) *Visiting Committee of the University Grants Commission*

The Expert Committee appointed by the University Grants Commission, consisting of Dr. Bhattacharya, Dr. Dandekar and Dr. Suryakant visited the Ramayan Department on the 28th June, 1960 for the evaluation of the Ramayana work. The members were satisfied with the work done and with the programme schedule of completing the work in 1967. On their recommendation the University Grants Commission sanctioned two-third of the expenditure upto 1967, the remaining one-third to be borne by the State Government or the University.

10. *Journal of the Oriental Institute*

The Institute has regularly published a quarterly Journal. During the year Vol. IX nos. 3 and 4 and Vol. X nos. 1 and 2 were published. 85 subscribers were registered during the year and 168 copies were sent on an exchange basis. The Journal is specially devoted to research studies in Indology and also includes studied papers on Ramayana and allied topics concerning the epics and the puranas.

11. *Other Activities*

For further development of the Oriental Institute a scheme of inviting Visiting Professors was started from 1959-60 and the following

eight lectures by three learned lecturers on different subjects were arranged in the Lecture Hall of the Institute during the year under report :

- | | | |
|---|---|--|
| 1 | Two lectures on
'Some Aspects of Prakrit Studies' | Delivered by Dr. A. N. Upadhye on
the 5th and the 6th January, 1961 |
| 2 | Three lectures on
(1) Extent and Language of
Buddhist Literature in San-
skrit
(2) The Prajnaparamita Litera-
ture
(3) Place of Episodes in the Epics | Delivered by Dr. P. L. Vaidya on the
24th, 25th and the 26th February,
1961 |
| 3 | Three lectures on—
(1) गुजराती भाषा उपर फारसीनी असर
(2) गुजराती साहित्य उपर फारसीनी असर
(3) सुफीवाद अने गुजराती कविता | Delivered by Professor Chhotubhai
R. Naik on the 27th, 28th February
and the 1st March, 1961 |

Besides, the following lecture was arranged in the 'प्राच्य विद्या व्याख्यान-माला'—an extension lectures series :

- | | | |
|-----|---------------------------|---|
| (1) | 'प्राचीन भारतना लोकधर्मो' | Delivered by Dr. U. P. Shah, Deputy
Director, Oriental Institute, Baroda |
|-----|---------------------------|---|

Two more lectures were arranged in the Oriental Institute on—

- | | | |
|-----|--------------------------------|--|
| (1) | 'नर्मदा माहात्म्यनां स्थळनामो' | —by Dr. Sureshchandra Kantawala and |
| (2) | 'पाटणनां स्थळनामो' | —by Shri K. B. Dave under the auspices of the
Place-Name Society. |

Further, a scheme of preparing text-books on Regional Languages, has been accepted by the University authorities and the then Government of Bombay has sanctioned an interest free loan of Rs. 30,000/-. The Government of Gujarat has sanctioned an interest free loan of Rs. 21,000/- towards the implementation of the scheme during the year under report. The work has been entrusted to Professor B. J. Sandesara. In all 20 works are selected under the scheme and the work is in progress. The press-copy of the book 'प्रमाणशास्त्र' by Shri B. G. Desai has been sent to the Press for printing.

12. *Publications by the members of the Staff*

Name	Title	Where published or read
PAPERS		
1. Professor B. J. Sandesara, Director	1. गुजराती साहित्यमां सिलोन 2. प्राचीन भारतनां प्रजातंत्रो	समर्पण विशेषांक, मे—१९६० अखंड आनंद, जुलाई—१९६०

Name	Title	Where published or read
3.	शब्दचर्चा : दीपडी—दीवडी—दीकोडी—दीकोली—दीकोका.	बुद्धिप्रकाश, ऑगष्ट—१९६०
4.	शब्दचर्चा : कटरि—कटरे	बुद्धिप्रकाश, सप्टेम्बर—१९६०
5.	किराट वेपारी	परव—गुजराती साहित्य परिषदनुं त्रैमासिक, सप्टेम्बर, १९६०
6.	जयशेखरसूरिकृत शत्रुंजय विनती	जैन दीपोत्सवी अंक, सं. २०१६
7.	शब्दचर्चा—सामिसाल	बुद्धिप्रकाश; ऑक्टोबर १९६०
8.	भाषा अने व्याकरण	बुद्धिप्रकाश, नवेम्बर १९६०
9.	आचार्य हेमचन्द्र—इतिहासकार	जैन, मार्च १९६१
10.	गुजराती भाषानो उद्भव अने विकास	गुजरात एक परिचय—भावनगर काँग्रेस स्मृतिग्रंथ.
11.	Cultural Data in the Vasudeva-Hindi, A Prakrit Story-book by Sanghadadasagani (Circa 5th Century A.D.)	Paper presented before the Indic Section of the 25th Session of the International Congress of Orientalist held at Moscow on 9-16 August, 1960 (Published in the Journal of the Oriental Institute, Vol. X-1 September, 1950).
12.	Lexicographical Studies in 'Jaina Sanskrit' (in collaboration with Shri J. P. Thaker)—4 instalments	Journal of the Oriental Institute, March, 1960, June, 1960, September, 1960, December, 1960

BOOKS

1. 'दयाराम' Chetan Prakashan Griha, Baroda, December, 1960
2. 'सोमेश्वरविरचितं उल्लाषराघवनाटकम्' GOS No. 132, March, 1961
3. 'प्राचीन फागुसंग्रह' (2nd edition) Prachina Gurjar Granthamala, No. 3, December, 1960.

ARTICLES/PAPERS

2. Dr. U. P. Shah, Deputy Director

1. A Rare Jaina Image from Khed-Brahma Journal of the Oriental Institute—Vol. X-1, September, 1960

Name	Title	Where published or read
2.	गुजरातनां शिल्प अने स्थापत्य	विश्वमानव-चडोदरा, मे १९६०
3.	अंगविजनी	बुद्धिप्रकाश, अमदावाद, मार्च १९६१
BOOKS		
1.	Sangitopanisadsaroddhara	Gaekwad Oriental Series, Volume No. 133
2.	Girvanapadamanjari and Girvanavangmanjari	M. S. University Oriental Series No. 4
3.	Professor G. H. Bhatt, General Editor and Head of the Ramayana Department	Pada-Index of Valmiki Ramayana G. O. Series, Vol. No. 29
PAPERS		
4.	Shri J. P. Thaker, Research Officer	1. संस्कृत साहित्यमां दत्तात्रय Mangala Mandir, Ahmedabad, Annual Issue July, 1960 2. Lexicographical studies in Jaina Sanskrit—JOI-June, 1960, September, 1960, December, 1960 and March, 1961 (in collaboration with Dr. B. J. Sandesara)
5.	Shri S. D. Parekh, Research Officer	1. प्राचीन इजनेरी विभातुं साहस Hindu-Milan Mandir, October, 1960 नरपतिकृत-पंचदंडनी एक जूती हस्तप्रत Buddhiprakash, October, 1960
13. Distinguished Visitors		
The following were the distinguished visitors to the Institute including the Ramayana Department during the year. All of them were well impressed by the work of the Institute.		
	Name	Date of visit
(1)	Dr. K. L. Shrimali, Minister for Education, Government of India, New Delhi.	4-5-1960
(2)	Nawab Mehdi Nawaz Jung, Governor, Gujarat State	10-8-1960

Name	Date of visit
(3) Professor W. Milojeic and Professor Paul Thieme, Members of the Cultural Delegation from the Federal Republic of Germany.	27-11-1960
(4) Shri A. K. Chanda, Deputy Minister of Works, Housing and Supply, Government of India, New Delhi	10-1-1961
(5) Shri H. V. Divetia, Retired High Court Judge and Ex-Vice-Chancellor, Gujarat University, Ahmedabad.	27-2-1961

14. Chronology of Gujarat Section

The First Volume which covers the period of more than a thousand years, *i. e.* from the Pre-and Proto-History of Gujarat to 942 A. D., the end of the Chavada rule and beginning of the Solanki period was published with illustrations and maps.

CHAPTER XVIII—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

1. Brief History

The Institution was first started in 1886 by the former Government of Baroda. It was known as the Bharatiya Sangeet Vidyalaya but later on it was designated the College of Indian Music. It was taken over by the University in 1949. At that time it offered a Diploma Course in Vocal and Instrumental music. The University introduced in July, 1950, a four-year course leading to the degree of B.Mus. in Vocal and Instrumental music. Degree and diploma courses in Dance and Dramatics were started from June, 1951. Post-graduate courses, leading to the degree of Master of Music, were introduced from the year 1954 in all the three specialisations.

2. Building

The present building at Sursagar was occupied by the College in June, 1952. The gymnasium of the College was converted into an Open Air Theatre in 1956-57. Extension of the present building, as approved by the University Grants Commission, has been completed. This will provide additional facilities for post-graduate studies and research.

3. Courses of Studies

The college offers the following courses :

- (1) Two-year Post-graduate course leading to the degree of Master of Music (M.Mus.) in Music, Dance and Dramatics.
- (2) Four-year course in Music (Vocal and Instrumental—Sitar, Violin, Dilruba, Bansari and Tabla), Dance—(Bharat Natyam and Kathak) and Dramatics leading to the degree of Bachelor of Music.
- (3) Two-year Post-Diploma course in Dancing (Kathak)
- (4) Five-year course in Vocal Music, Sitar, Dilruba, Violin and Tabla leading to the diploma in Music. (Dip. Mus.)
- (5) Three-year courses leading to the diploma in dancing (Dip. Dance) and Diploma in Dramatics (Dip. Dramatics)
- (6) Post-Diploma course in Kathak Dance.

4. Number of students

The number of students enrolled in the various classes at the commencement of the year 1960-61 was as under :

Class	Men	Women	Total
(1) Diploma :			
First year	130	58	188
Second year	46	40	86
Third year	35	25	60
Fourth year	31	21	52
Fifth year	29	9	38
Total	271	153	424
(2) Degree :			
First year degree	11	9	20
Second year degree	6	3	9
Third year degree (Jr. B. Mus.)	3	2	5
Fourth year degree (Sr. B. Mus.)	2	2	4
Total	22	16	38
(3) Post-graduate degree :			
Fifth year—Junior Mus.	1	1	2
Sixth year—Senior Mus.	1	1	2
Total	2	2	4
Grand Total	295	171	466

5. Staff

During the year, the staff consisted of a Principal, 1 Honorary Visiting Professor, 1 Honorary Visiting Lecturer, 3 Readers, 9 Lecturers, 3 Tutors, 19 Ustads (Teachers in Music and Dance including Part-time Teachers etc.), 4 Accompanists, 9 class III and 10 Class IV Servants. Some experts were also invited to give lectures and demonstrations to the students during the year.

6. Library and Reading-room

(1) *Books* :—The Library of the College of Indian Music, Dance and Dramatics also received as usual a grant of Rs. 2,000/- from the University for the purchase of books and Rs. 600/- for periodicals and the grant has been fully utilised for the year 1960-61.

The following statement gives the details of the acquisitions of the Library of the College of Indian Music, Dance and Dramatics during the year :

	Books	Bound Periodicals	Total Value in Rs.
(1) Number at the beginning of the year	3,599	249	24,756=83
(2) Number added during the year	342	57	2,153=93
(3) Number withdrawn from the records	—	—	—
	3,941	306	26,910=76

(2) *Periodicals* : The total number of periodicals subscribed for, now stands at 54. 57 volumes of bound periodicals were added to the stock during the year.

(3) *Circulation of Books, etc.* :—The Library remains open from 9-30 a.m. to 12-30 noon in the morning and from 5-00 p.m. to 8-00 p.m. in the evening on all working days, except Sundays and Holidays.

The number of readers in various categories were as follows :

(1) Post-graduate students	7
(2) Under-graduate students	60
(3) Teachers	42
	109

The statistics of the Library use are given below :

(1) Daily average number of readers visiting the Library	25
(2) Average number of books issued per day for home-reading	15
(3) Average number of books issued per day for reference	5
(4) Total average number of books issued per day for reading	20

(4) *Reference work* :—An exhibition of books was arranged for the Pandit Bhatkhande Centenary Celebrations.

7. Museum, Laboratory, Studios, Workshops etc.

The College has a small museum of ancient instruments of various types. The drama property room contains a collection of costumes and many miscellaneous properties including make-up materials etc. A Physics Laboratory has been established to teach the students the principles of sound.

The following table shows the cost of equipment in the laboratory:

S. No.	Item	Cost of equip- ment as on 1-4-1960	Cost of equip- ment etc. written off dur- ing the year	Cost of equip- ment etc. added during the year	Cost of equip- ment as on 31-3-1961
		Rs.	Rs.	Rs.	Rs.
1	Physics Laboratory	3,316=17	—	433=00	3,749=17

8. Literary, Cultural and other activities

(1) The Programmes of Music, Dance and Dramatics were arranged by the staff members of the College fortnightly on Saturdays during the whole year.

(2) The Natghar of the College gave the following performances during the year:

Name of the Play	No. of Performance
(i) Karoliyanun-Jalun	9
(ii) Karna Kunti	1
(iii) Katch Devayani	1
(iv) Dak-Ghar	3
(v) Devadwar	1
(vi) Mitho-Maheman	7
(vii) Soya-nu-Nakun	8

9. Co-curricular Activities

- (1) The College celebrated the following anniversaries or Jayantis:
- | | |
|---|------------|
| (i) Professor Maula Baux Anniversary | 23-7-1960 |
| (ii) Shri Ranchhodbhai Udayaram Anniversary | 4-9-1960 |
| (iii) Pandit Bhatkhande Anniversary | 16-12-1960 |
| (iv) Pandit Makhanlalji Pakhavaji Jayanti | 17-12-1960 |
| | 18-12-1960 |
| | 11-3-1961 |

(2) The College celebrated the College Annual Day on the 27th February, 1961. Dr. Jyotindra M. Mehta, Vice-Chancellor and Shrimati Saralaben Mehta were the Chief Guests. The Vice-Chancellor gave away the diploma certificates to the students who had passed in the examination of 1960.

10. Tests and Class-work

Tests are held regularly in each subject, covering both theoretical and practical aspects. These tests have proved of great help to the students in maintaining an even progress of studies, and to teachers in maintaining regularity in the total coverage of each subject. Attendance at tutorials is compulsory.

11. Other Important Events

(1) Shri Bade Gulam Ali Khan Saheb visited the College on the 11th July, 1960, and narrated his experiences in the field of Music.

(2) Nawab Mehdi Nawaz Jung, Governor of Gujarat visited the College on the 11th August, 1960, and a special Cultural Programme of Music and Dance was presented in his honour at the Play Box of the Music College.

(3) Dr. K. L. Shrimali, Minister of Education, Government of India, visited the Convocation Cultural Programme on the 15th October, 1960.

(4) Mr. Brian D. Barness, a well-known Australian Actor, was invited by the College. Mr. Barness presented a Solo Drama recital programme on Saturday the 26th November, 1960 at the Open Air Theatre of the Music College. He presented:

- (i) T. S. Eliot's—Old Possum's Book of Practical Cats and
(ii) T. S. Eliot's—Murder in the Cathedral.

(5) Professor W. Milojeic and Professor Paul Thieme, members of the Cultural Delegation for the Federal Republic of Germany visited the College on the 25th November, 1960.

(6) Mr. and Mrs. John Counsell gave lectures and recitals on the 1st and the 2nd of March, 1961 at the College.

CHAPTER XIX—BARODA SANSKRIT MAHAVIDYALAYA

1. Brief History

The institution was established by the former Baroda Government in 1915. With the passing of the Maharaja Sayajirao University of Baroda Act 1949, it became a constituent recognised institution of the University but its management continued to be with the Government till the University took it over from the Government on the 18th June, 1951.

2. Building and Hostel

The institution continued to be housed in the City in the building called "Temple of Radhavallabha" which belongs to the Devasthan Department. It has a hostel in a hired building to accommodate 15 students. The number of students residing in the hostel during the year was 12.

3. Courses of Studies

The institution offers courses in four stages as under :

(1) Vachaspati: A Research course of two years' duration for the higher post-graduate Research Degree of "Vachaspati" has been instituted in this institution for those who have passed the Acharya examination of this University or its equivalent.

(2) Uttama Kaksha or Special Pandit course of four years' duration is split up into two courses—the Shastri course (degree course) extending over the first two years and the Acharya course (Post-graduate degree course) extending over the last two years in the subjects of (i) Vyakarana Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Nyaya and Vaisheshik Darshana, (vi) Sankhya Yoga and Vedanta Darshana and (vii) Purva Mimansa Shastra. Only the first four branches worked during the year under report.

(3) Madhyama Kaksha course of five years' duration leads to the diploma of "Visharada" in each of the two branches of (i) Grammar and literature and (ii) Astrology and Astronomy with English up to the S. S. C. standard compulsory for both the branches.

(4) Prathama Kaksha or certificate course is of three years' duration in each of the branches of (i) Yajurveda Yagniki, (ii) Rgved

Yagniki and (iii) Purana with grammar and literature compulsory for all branches.

4. Number of students

The number of students enrolled in various classes during the year 1960-1961 was as under :

Class	Men	Women	Total
(1) Prathama Kaksha Certificate			
First Year	9	3	12
Second Year	11	3	14
Third Year	10	2	12
Total :	30	8	38
(2) Madhyama Kaksha (Visharad)			
(i) Vyakarana Shastra			
First Year	7	2	9
Second Year	1	—	1
Third Year	1	—	1
Fourth Year	3	—	3
Fifth Year	2	—	2
Total :	14	2	16
(ii) Jyotish Branch			
First Year	2	—	2
Second Year	2	—	2
Third Year	—	—	—
Fourth Year	1	—	1
Fifth Year	1	—	1
Total :	6	—	6
(3) Shastri			
(i) Vyakarana Shastra			
First Year	—	—	—
Second Year	1	—	1
(ii) Jyotish Shastra			
First Year	2	—	2
Second Year	—	—	—
(iii) Sahitya Shastra			
First Year	—	—	—
Second Year	—	1	1

Class	Men	Women	Total
(iv) Dharma Shastra			
First Year	2	—	2
Second Year	—	—	—
Total:	5	1	6
(4) Acharya			
(i) Vyakarana Shastra			
First Year	—	—	—
Second Year	1	—	1
(ii) Jyotish Shastra			
First Year	—	—	—
Second Year	2	—	2
(iii) Sahitya Shastra			
First Year	—	—	—
Second Year	—	—	—
(iv) Dharma Shastra			
First Year	1	—	1
Second Year	—	—	—
Total:	4	—	4
Grand Total:	59	11	70

5. Staff

During the year the staff of the institution consisted of the Principal, 12 Adhyapakas, 2 Class III and 4 Class IV servants.

6. Library

The institution has a small Library and a Reading-room. The following are the figures showing average daily attendance in the Reading-room and the circulation of books:

S. No.	Particulars	Number
1	Average number of students making use of the Reading-room	60
2	Average number of teachers making use of the library and the Reading-room daily	13
3	Total number of books issued to the teachers during the year	235

The following figures show the stock and the expenditure on the maintenance of the Library and Reading-room during the year:

Sr. No.	Particulars	Number	Cost in Rs.
1	Books (including back numbers of Journals) as on 1-4-1960	3,356	10,372=60
2	Books written off during the year	—	—
3	Books added during the year	34	348=28
4	Books as on 31-3-1961	3,390	10,720=88
5	Journals subscribed during the year	13	110=69
6	Amount spent on binding during the year	—	53=38
7	Total amount spent for the library and the Reading-room during the year	—	512=35

7. Literary, Cultural and other Activities

(1) Lectures:

The Institution arranged 10 extension lectures under the auspices of Sharadopasak Mandal, 3 under the Extra Mural grant of the University and 4 popular lectures by the members of the staff of the Institution.

(2) Jayantis:

The Institution celebrated the following Jayantis:

- (i) Valmiki Jayanti — 5-4-1960
- (ii) Shankar Jayanti — 20-4-1960
- (iii) Vyas Jayanti — 8-7-1960
- (iv) Kalidasa Jayanti — 30-9-1960

The cultured public of Baroda evinced good interest in these celebrations.

8. Co-curricular Activities

(1) Parliamentary debates:

A parliamentary debate was held in Sanskrit on the subject of माघे सन्ति त्रयो गुणा : during the Sharadotsava celebrations.

(2) Kavi Sammelan:

A Kavi Sammelan was organised in the institution during the Saradotsava in the month of October, 1960 under the Presidentship of Shri Badrinath K. Shastri. A number of leading Sanskrit poets of Baroda participated in the Kavi Sammelan.

(3) Elocution Competitions :

The Institution organised an elocution competition during Sharadotsava, a Gita competition and an essay competition. It also arranges debates and lectures in Sanskrit by the students as well as by Adhyapakas by turns on every Friday, with a view to training the art of dialectics in Sanskrit.

(4) Study tours and Excursions :

The following study tours and excursions were arranged during the year :

(i) Educational tour to Jaipur and Ujjain in November, 1960 for giving training to students in mathematical calculations of the positions of the planets.

(ii) Tour to Kashmir in the Diwali Vacation under the Youth Welfare Programme.

(iii) Excursion tour to Mount Abu, Ambaji, Siddhapur and Patan in winter vacation.

9. Other Important Events

(1) The institution celebrated the Annual Prize Distribution ceremony for the award of Diploma certificates, medals and prizes on the 22nd February, 1961 under the presidentship of Dr. J. M. Mehta, Vice-Chancellor of the M. S. University of Baroda.

(2) The institution received a donation of Rs. 500/- in two instalments from Sheth Hansraj Pragji Thakersy Education Trust for the purpose of giving scholarships to successful students in the terminal examination during the year under report.

(3) The institution has also received a donation of Rs. 1,000/- from Shri Jalaram Prasasti Trust (Virpur) Saurashtra for the purchase of books for the use of the library of the institution.

CHAPTER XX—PREPARATORY UNIT**1. Brief History**

The Intermediate College was started by the University in June, 1950. Till 1954-55 the College had First Year and Intermediate Classes in Arts and Commerce. In June, 1955, these were replaced by the new Preparatory (Pre-University) Courses. The introduction in June, 1957, by the Faculties of Arts, Science and Commerce of the Three Year Degree course necessitated the discontinuation of the Intermediate Classes, in Arts, Science and Commerce. From May, 1960, the institution was designated as the Preparatory Unit and consisted of Preparatory Courses in Arts, Science and Commerce.

2. Building

The Unit has no separate building of its own. Classes are held in the rooms of the Faculties of Arts and Science by suitable adjustments in the time-tables of these institutions.

3. Courses of Studies

The Unit provides Preparatory Courses of one year's duration each in Arts, Science and Commerce. The course is based mainly on the General Education pattern. Out of the seven papers each student is required to take at the Preparatory, the first three viz. (1) English Language and literature, (2) Indian Literature and (3) Social Studies as compulsory for all students—Arts, Science or Commerce. The Arts and Commerce students have also to take a course in General Science.

4. Number of students

The number of students enrolled in the different classes at the commencement of the year 1960-61 was as under :

Class	Men	Women	Total
Preparatory Course in Arts	223	201	424
Preparatory Course in Science	455	51	506
Preparatory Course in Commerce	403	8	411
Total	1,081	260	1,341

5. Staff

There are on the staff of the Unit a Principal, 7 Class III and 9 Class IV servants. The teaching work is shared by the teachers of the

Faculties of Arts, Science, Commerce and the Department of General Education. The staff of the English Department prepared special teaching material for use in the Preparatory Classes with a view to improving students' competence in English.

6. Library

Under the University scheme of amalgamation of libraries of institutions situated in the old Baroda College area, the library of this Unit was amalgamated with the main University library. Some periodicals are being supplied for the teachers' common room by the University Library.

7. Co-curricular Activities

(1) A.C.C., N.C.C. and Sports

A.C.C. training is compulsory for all the students of the Unit except for those who have joined the N.C.C. or play some major games. A large number of cadets therefore—both boys and girls are from this Unit. They took part in the ceremonial parades and also participated with distinction in various competitions held at their camps. The Unit Association organised Badminton, Table Tennis, Chess, Lawn Tennis and Draughts tournaments which were keenly contested. Students of the Unit actively participated in the Inter-Faculty Tournaments held during the University Youth Festival.

Two students of the Unit participated in Inter-University wrestling tournaments held at Dawangiri in Mysore State. Four students of the Unit participated in Inter-University Hockey Tournament held at Dharwar.

Two boy students and three girl students of this Unit participated in the Inter-University Kho-Kho tournaments at Indore.

This Unit participated in the Inter-University Volley Ball tournament held at Madras. Two students of this Unit participated in the Inter-University Basket-Ball tournament at Poona. A girl student of this Unit participated in the Table-Tennis tournament held at Dharwar. A girl student participated in the Athletics tournaments held at Lucknow.

(2) Debates:

The Debating Society of the Preparatory Unit organised a debate for the students of the Preparatory Arts, Commerce and Science on 20th September, 1960. About fourteen students took part in the debate. A special feature was that students acted as judges.

A debate on "First Year Students' Debate" was organised by the M. S. University Union, in which five students represented this Unit. All the first three prizes were won by this Unit. Students of this Unit participated in the Inter-Faculty Debates organised by the M. S. University Union throughout the year including the debates held during the Inter-Faculty Youth Festival. This Unit won a prize at the Vice-Chancellor's Trophy Debate. A girl student of this Unit participated in the United Nations Moot Session held at Jaipur University of Rajasthan.

(3) Societies and other Associations:

(a) The Marathi Sahitya Mandal

Marathi Sahitya Mandal organised a debate on the 9th August, 1960 and successful candidates were awarded prizes.

(b) Geography Association

The Association arranged film-shows during the year.

(4) Cultural Programme:

The students of this Unit organised a musical evening in the Central Hall of the Baroda College. Students of this Unit actively participated in the various competitions viz., Drama, Garba, Group Song, Kavi Sammelan and poem-writing held during the 11th University Week. The girl students of the Unit won prizes in Individual Acting in Drama, Kathak Dance and Sitar Vadan.

8. Other Important Events

(1) Orientation

The year began with an orientation programme from June, 21st, 1960. The students who were newly admitted come from all parts of the country and even from abroad. They were introduced to the town of Baroda, its attractions, institutions of the M. S. University, Courses and targets at the Preparatory and to some of the members of the University staff. The orientation programme lasted for about a week and thus the stage was set for starting regular class-work from the next week.

(2) Broadcast from A.I.R. Baroda

The invitation from the All India Radio, Baroda, to the Preparatory students to participate in a literary broadcast was an outstanding event in the history of the Preparatory Unit. A dozen of Preparatory students both men and women recited in the A.I.R. Baroda, their own composition called "अर्पण" on 23rd September, 1960.

(3) Career Conference

A career conference was arranged for the students of the Preparatory Classes from the 17th to the 21st January, 1961, with the co-operation of the Counselling Centre of the University. The following were some of the interesting talks given :

- | | <i>Topics</i> |
|--|--|
| (1) Shri Kulkarni,
Employment Exchange Officer,
Baroda | Employment opportunities in the
country |
| (2) Shri K. K. Thakore,
Reader in Electrical Engi-
neering,
Faculty of Technology and
Engineering,
Baroda | Careers in Engineering |
| (3) Sq. Leader Mitra,
N.C.C. Air Wing, Baroda | Careers in the Armed Forces |
| (4) Professor Shrimati A. M.
Muzumdar,
Dean, Faculty of Social Work,
Baroda | Careers in Social Work |
| (5) Dr. H. L. Dholakia,
Faculty of Commerce,
Baroda | Careers in Commerce |

(4) Annual Day

The culmination of the year was marked by the Annual Day Celebrations on Tuesday, the 28th February, 1961, which included prize distribution for the winners of the year and a community dinner.

CHAPTER XXI—POLYTECHNIC**1. Brief History**

The Polytechnic was started in June, 1957, under the Expansion Scheme of Degree and Diploma courses in Civil, Mechanical and Electrical Engineering of the Government of India under the Second Five Year Plan. The institution imparts instruction for the Diploma courses in Civil, Mechanical and Electrical Engineering, each of 3 years' duration. Prior to the establishment of this Institution these courses were conducted at the Faculty of Technology and Engineering, M. S. University of Baroda, Baroda. The number of students admitted in the first year then was only 180 as against the present number of 300. The syllabi of these courses are practically the same as those of the corresponding courses conducted by the Department of Technical Education, Gujarat State.

As regards finance, the University Grants Commission bears the non-recurring expenditure on buildings, equipment and books to the tune of Rs. 13,40,000/- Rs. 10,64,500/- and Rs. 20,000/- respectively. They also bore full recurring expenditure during the year 1957-58, 80% in the year 1958-59 and 50% in the years 1959-60 and 1960-61, the balance being bore by the State Government. The Government of India have also given a loan of Rs. 18,52,500/- for the construction of three Halls of Residence for the Polytechnic to accommodate 450 students.

2. Buildings

The new building of the Polytechnic was completed during the year under report. The construction work of three hostels of the Polytechnic is nearing completion. The hostels are expected to be ready for occupation in June 1961.

3. Courses of studies

The Polytechnic offers the following Diploma Courses in Engineering:

<i>Name of the Course</i>	<i>Duration of course</i>	<i>Number of Admissions</i>
1. Diploma in Civil Engineering	3 Years	180
2. Diploma in Mechanical En- gineering	3 Years	60
3. Diploma in Electrical En- gineering	3 Years	60

4. Number of students

The number of students enrolled in various classes at the commencement of the year was as under :

	Men	Women	Total
<i>First Year Diploma</i>			
Civil Engineering	175	1	176
Mechanical Engineering	81	1	82
Electrical Engineering	71	1	72
Total ...	327	3	330
<i>Second Year Diploma</i>			
Civil Engineering	101	—	101
Mechanical Engineering	107	1	108
Electrical Engineering	99	—	99
Total ...	307	1	308
<i>Third i.e., Final Year Diploma</i>			
Civil Engineering	91	—	91
Mechanical Engineering	104	—	104
Electrical Engineering	83	—	83
Total ...	278	—	278
Grand Total ...	912	4	916

5. Staff

During the year under report the staff of the Polytechnic consisted of 1 Principal, 3 Professors, 1 Reader, 16 Lecturers, 38 Demonstrators, 46 Class III and 52 Class IV servants.

6. Library

In the Library 531 new books worth Rs. 13,382=13 were added during the year thus bringing the total number of books in the library to 3,204 at a total cost of Rs. 55,577=93. This amount includes Non-recurring and Recurring grants.

Acquisition Notes :

1. BOOKS :—The books and periodicals were purchased from the Recurring grant. No other grant was given to the Institution.

Grant	Amount
1 For technical books, periodicals and binding	Rs. 12,300/-

The following statement gives the details of acquisition of Polytechnic Library, during the year.

Number at the beginning of the year	Books including periodicals	Pamphlets	Manuscripts, Maps, etc.	Total value in Rs.
Number at the beginning of the year	2,676	—	—	42,224=30
Number added during the year	531	—	—	12,079=88
				1,302=25
	3,207	—	—	55,606=43
Number withdrawn from the records	3	—	—	28=50
	3,204	—	—	55,577=93

2. PERIODICALS :—The total number of periodicals and journals subscribed for now comes to 43 at the cost of Rs. 1,765=29. Bound volumes were added to the stock of books during the year.

Circulation of books etc. :

The library remains open from 11-00 to 5-30 p.m. on all working days except on Sundays and Holidays. The number of readers registered are as under :

1. Students	796
2. Teachers	163
Total	959

The statistics of the library use are given below :

1 Daily average number of readers making use of the Library	45
2 Daily average number of books issued to readers for home-reading	30

7. Laboratories, Workshops, etc.

Out of Rs. 10.84 lakhs sanctioned by University Grants Commission for equipment, furniture and Library books, Rs. 70,054=15 have been spent during the year under report. The total amount spent from this grant upto the end of the year is Rs. 7,97,266=17. The following table gives the total amounts sanctioned and the amounts actually spent upto the end of the

year for the purchase of equipment, machinery etc. in different laboratories and workshops of the Polytechnic.

S. No.	Name of the Laboratory / Workshop	Amount sanctioned by the University Grants Commission	Total amount spent upto 31-3-1961
1	Physics & Chemistry Laboratory	54,000=00	36,816=43
2	Applied Mechanics Laboratory	18,000=00	12,377=40
3	Strength of Material Laboratory	60,000=00	52,523=12
4	C.E. & R.C.C. Laboratory	11,800=00	11,811=72
5	Surveying Instruments	86,800=00	74,167=50
6	Heat Engines Laboratory	1,42,000=00	65,817=29
7	Hydraulics Laboratory	70,000=00	16,427=03
8	Electrical Engineering Laboratory	2,11,000=00	1,80,984=79
9	Electronics Laboratory	23,500=00	23,365=49
10	(i) Workshop—Equipment		
	(a) Carpentry Shop	33,000=00	22,185=33
	(b) Fitting Shop	38,600=00	12,338=99
	(c) Machine Shop	1,38,700=00	1,11,138=62
	(d) Smithy Shop	22,000=00	21,030=94
	(e) Foundry and Moulding Shop	15,000=00	14,249=53
	(f) Welding Shop	10,000=00	4,062=60
	(g) Tin smithy Shop	5,000=00	4,371=33
	(h) Masonry & Plumbing Shop	5,000=00	974=79
	(i) Drawing Materials	4,000=00	—
	(ii) Erection charges for equipment of the various shops	—	21,457=33
11	Models & Materials for models	7,000=00	5,073=09
12	Audio-visual Equipment	9,100=00	5,187=89
13	Furniture	1,00,000=00	80,857=14
14	Books	20,000=00	19,999=32
	Total:	Rs. 10,84,500=00	7,97,266=17

8. Literary, Cultural and other activities

The students formed their Association during the year. The Association arranged lectures and talks on various subjects of general interest by prominent persons for the benefit of the students and staff. Students of the final year diploma classes took part in the Seminars. Students prepared and read papers on a selected theme relating to the subjects of their study and actively participated in the discussions. The teachers of the Polytechnic also took keen interest in various activities of students

such as sports, debates, cultural activities etc. The first 'Polytechnic Day' was celebrated on the 29th November, 1960 under the presidentship of the Vice-Chancellor, Dr. J. M. Mehta. Shri T. A. Desai, Director of Technical Education, Gujarat State, was the Chief Guest on the occasion.

9. Co-curricular activities

(1) *Excursions and tours*: The final year students of Civil, Mechanical and Electrical Engineering classes accompanied by teachers, went on educational tours during the Mid-year vacation to various places of particular interest in their respective branches of study.

(2) *Dramatic and Music Association*: The Students' Association participated in the Inter-Faculty competition held by the University Week Celebration Committee. The Association also took part in Drama and Group Song competitions and won the third prize in Group Song.

(3) *Exhibition of educational films*: The Polytechnic has one 16 mm. Bell & Howall Sound Projector and one Epidioscope for screening films and film-strips and slides. Film-shows were arranged to supplement classroom teaching and promote general knowledge. In all six film-shows were arranged during the year under the Audio-visual Programme.

(4) *Co-operative Store*: The working of this store was carried on jointly with the Faculty of Technology and Engineering. The articles for the normal use of engineering students, were available at reasonable prices. The store procured Import Licences to import Slide Rules, Wattsman Papers etc. These articles were available to students at prices 50% below the market price.

10. Tests and Class-work

Attendance at the Terminal Examination, tutorials and tests is compulsory. The system of giving credit upto 20% marks for theory papers, tutorials and tests done during the term is followed. Regular records of class-work and periodical tests of the students are maintained. In deciding results of Annual Examinations conducted by the University the marks obtained by the students in their Terminal Examination, tutorials, class-work tests are also taken into account.

CHAPTER XXII—SHRIMATI HANSA MEHTA LIBRARY

1. Brief History

The University Library was started in the year 1950 in an old building near the University Office. The University Grants Commission and the Government of Bombay sanctioned a grant of Rs. 10,00,000 for a new building and Rs. 79,225 for special furniture and equipment. The new building was constructed at a cost of Rs. 12,39,920. The University Library was shifted to the new building in June, 1957 and the libraries of the Faculties of Arts, Science, Education and Psychology, Commerce and the Preparatory Unit were taken over. It was renamed the Shrimati Hansa Mehta Library. A panel of sculpture in cement, executed by the Faculty of Fine Arts, decorates the front façade of the new building. The Library also started providing instruction in a course leading to the Post-graduate Diploma in Library Science from 1956-57.

2. Acquisition Notes

(1) Books:

The following grants were received from the University Grants Commission for the purchase of books and periodicals in addition to the grants received in the year 1959-60 which were to be utilised before the end of the Second Five Year Plan period.

1. Books on Humanities Rs. 50,000
2. Books on Scientific and Technical subjects Rs. 40,000

The Library also received as usual a grant of Rs. 23,000 from the University for the purchase of books and periodicals and the grant has been fully utilised.

There have been some noteworthy additions during the year *viz.* A modern herbal by M. Grieve; Lachish 4 vols.; Topographical bibliography of ancient Egypt by Porter and Moss, 2 vols.; The complete Greek tragedies, 4 vols.; The Art of Indian Asia, 2 vols.; Business correspondence, 6 vols.; The Flora of British India by J. D. Hooker, 7 vols.; Standard methods of chemical analysis by W. W. Scott, 2 vols.; Encyclopaedia of educational research, ed. by C. W. Harris; Bio-physical chemistry, 7 vols.; Human genetics by Gates; Solid state physics, 9 vols.; Medicinal chemistry by A. Burger, American men of science by J. Cattell,

3 vols.; A modern English grammar on historical principles, 7 vols.; Biological and medical physics, 6 vols.; Encyclopaedia of chemical technology, 7 vols.; Synthetic methods of organic chemistry by Theilheimer, 10 vols.; The oldest Rajasthani paintings from Jain Bhandars; Man-made textiles encyclopaedia; A catalogue of books represented by Library of Congress printed cards, 26 vols.; Pictorial history of the world, 24 vols.; A world bibliography of the bibliographies, 4 vols.; McGraw-Hill encyclopaedia of science and technology, 15 vols.; The standard cyclopaedia of horticulture, 3 vols.; Records of the American Australian Scientific expedition to Arnhem land, 3 vols.

In keeping with the policy of acquiring the back-files of scholarly periodicals, the following significant periodicals have been added to the collection during the year:

Wilson Bulletin, 19 vols.; The Auk, a quarterly journal of Ornithology, 18 vols.; Annals of Mathematics, 2nd series, 18 vols.; Bulletin of the American Mathematical Society, 15 vols.; Cancer Research, 8 vols.; Canadian journal of research, 15 vols.; Foreign Affairs, 19 vols.; Enzymologia, 20 vols.; Biochemica et Biophysica Acta, 22 vols.; The journal of public administration, 27 vols.; Geography, 13 vols.; Economic journal, 10 vols.; International Review of Administrative Sciences, 7 vols.; Annals of the Association of American Geographers, 10 vols.; Boston University Law Review, 30 vols.; Harvard Law Review, 73 vols.; Journal of Applied Physics, 20 vols.; Studies in Conservation, 5 vols.; American Journal of Sociology, 56 vols.; Social Forces, 28 vols.; Sociology and Social Research, 33 vols.; Human Relations, 9 vols.

The number of acquisitions in the various institutions of the University are as follows:

Institution	Number of books
Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology and Commerce and Preparatory Unit)	16,757
Faculty of technology and Engineering	3,848
Faculty of Fine Arts	220
Faculty of Home Science	585
Faculty of Social Work	360
Chetan Balwadi	64
College of Indian Music, Dance and Dramatics	342
Oriental Institute (Printed Section)	705
Polytechnic	531
Sanskrit Mahavidyalaya	37

Total: 23,449

Out of these books, 5,846 were procured from the grants of the University, 15,208 books from the grants given by the University Grants Commission and 2,395 were received as gift.

The following statement gives the details of acquisition of Shrimati Hansa Mehta Library during the year:

	Books	Bound Periodicals	Pamphlets	Manuscripts	Maps, charts etc.	Total value in Rupees
Number at the beginning of the year	1,48,049	14,986	6,256	56	557	20,43,626=91
Number added during the year	16,757	631	650	67	24	2,45,024=69
Number withdrawn from the records	1,64,806	15,617	6,906	123	581	22,88,651=60
Number remaining at the end of the year	1,64,806	15,617	6,906	123	581	22,88,651=60

(2) Periodicals:

The total number of periodicals and scholarly journals subscribed to, now stands at 1,150. 631 volumes of periodicals bound were added to the stock during the year.

3. Cataloguing

The activity of the Cataloguing Section is reflected in the following statistics:

(A) Books classified and catalogued during the year:			
(1) New accessions in Shrimati Hansa Mehta Library			16,757
(2) New accessions in the Faculties			6,692
(3) Arrears from the last year			1,000
		Total	24,449

(B) The other details of the work of the section incidental to the above are as follows:

	Shrimati Hansa Mehta Library	Faculties	Total
(1) Cards typed	53,271	40,152	93,423
(2) Cards filed in the catalogue	53,271	40,152	93,423

4. Circulation of books, etc.

The Library remains open from 8-00 a.m. to 8-00 p.m. on all working days except Sundays and holidays. In the Second term, with a view to giving facilities to the students preparing for examinations, the library remained open from 8-00 a.m. to 10-00 p.m. on all days including Sundays and holidays.

The numbers of registered readers in various categories were as follows:

(1) Postgraduate students	642
(2) Undergraduate students	5,354
(3) Research students, scholars and assistants	62
(4) University teachers	642
(5) Others	391
Total:	7,091

The statistics of the library use are given below:

(1) Daily average number of readers visiting the library	1,600
(2) Total average number of books issued per day for reading	1,007
(a) Average number of books issued per day for home-reading	331
(b) Average number of books issued per day from Curricular collection	453
(c) Average number of books issued per day for reference	223
(3) Average number of books issued per reader in the year	40

5. Reference Section

(1) Exhibitions:

This year the Reference Section organised the following exhibitions:

- (i) Dutch books (books were given by the Dutch Embassy)
- (ii) Writing materials in India (with the help of the Staff of the Oriental Institute)

(2) *Bibliographical activity:*

The following bibliographies were compiled during the year in response to requests from readers:

- ✓ (i) History of China
- ✓ (ii) School Libraries
- (iii) Gujarati books for college students
- ✓ (iv) Gujarati dictionaries and encyclopedias
- ✓ (v) Baroda—social and economic aspects
- (vi) Gujarat—gazetteers, directories and descriptive material
- ✓ (vii) Gujarat and old Bombay State
- ✓ (viii) Gujarat—Archaeology and architecture
- (ix) Agricultural labour
- ✓ (x) Gujarat State—Scheduled castes and Scheduled tribes
- ✓ (xi) Scientific and technical journals

6. **Teaching of Library Science**

Ten students were admitted to the course this year; one student left in the middle of the year. All the remaining nine students and four ex-students appeared at the examination; all the thirteen came out successful, one in First Class, two in Second Class and ten in Pass Class.

7. **Faculty Libraries**

The libraries of the Faculties of Social Work and the College of Indian Music, Dance and Dramatics were shifted to their new premises. The University Librarian and the Assistant Librarian visited these institutions and helped in the arrangement of the library equipment, furniture, etc. The new arrangement provided better reading facilities for the students and the teachers of the institution concerned. Extension of the Library of Faculty of Technology and Engineering was almost complete and open, free standing racks were introduced. The Library, however, still continues to be overcrowded.

8. **Other Important Events**

(1) The following distinguished persons visited the library during the year:

1. Dr. K. L. Shrimali, Minister for Education, Government of India
2. Nawab Mehdi Nawaz Jung, Governor of Gujarat State
3. Professor Milojeic and Professor Paul Thieme, Members of the Cultural Delegation from the Federal Republic of Germany

4. Shri K. G. Saiyidain, Officer on Special Duty, Ministry of Education, Government of India
5. Shri S. T. Desai, Chief Justice, Gujarat State

(2) Under the auspices of the India Wheat Loan Office and the University Grants Commission a Library Workshop was organised to discuss the immediate problems of the University and research libraries in India. Fifteen librarians from Western India invited by the University Grants Commission participated in this Workshop. The Workshop arrived at certain concrete decisions to be implemented by the participating librarians.

(3) Dr. C. P. Shukla participated in the IASLIC Seminar in Indic Names at Calcutta in December, 1960, where he acted as its Director. He was also invited to act as a member in the UNESCO Seminar on Library Development in South Asia held at Delhi during October, 1960. Dr. Shukla also acted as a member of the University Grants Commission Committee to scrutinize the staff requirement of the University Libraries of Delhi and Aligarh and the University Grants Commission Committee on Survey of Library Science Education. He contributed two papers at the UNESCO and the IASLIC Seminars. (1) Problems of book acquisition in University Libraries and (2) Cataloguing problems of Indic materials—a commentary.

CHAPTER XXIII—MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA PRESS

1. Brief History

The University took over the Sadhana Press at Baroda on the 18th May, 1953 at a total cost of Rs. 73,000/- from Messrs International Book House (Private) Ltd., Bombay, and renamed it " The Maharaja Sayajirao University of Baroda Press ".

2. Building

The construction of the Press building was completed in the year 1960; but the Press was shifted to the new premises in June, 1959. The total cost of the building is Rs. 3,60,000/-. During the year the premises were provided with a compound wall on the three sides of the building.

3. Staff

During the year, the staff of Press consisted of a Manager, an Assistant Manager, a Senior Clerk, a Clerk, one Proof-reader, one Assistant Proof-reader and one Copy-holder and 35 permanent workers of the Press. As an when required extra hands are employed on temporary basis.

4. Machinery

The press has machinery worth about Rs. 1,26,263/-. Some machinery was purchased from the University Grants Commission's grant and some accessories required for the Monotype machine were purchased during the year.

5. University Grants Commission

The University Grants Commission has approved a grant of Rs. 1,19,250/- for the expansion and improvement of the existing printing Press of the Maharaja Sayajirao University of Baroda, subject to the consent of the University/Government of Gujarat to share the expenditure at 33 $\frac{1}{3}$ % of the approved cost. The balance will be met by the Commission.

The press has placed orders for the following machines, accessories, types, metal, composing cabinets, moulds, matrices, etc.

- (1) One Brittonia D.P.E. Jobber 20" × 30"
- (2) One Polygraph Victoria Auto-Platin AA2/13 $\frac{3}{8}$ " × 18 $\frac{1}{2}$ "
- (3) One Polygraph paper cutting machine " Perfecta " APV 106-42"
- (4) One Wire Stitcher " Perfection " 6
- (5) One Type caster " Pivotal " type

Sundry :

Metal for casting types, metal for monotype, Moulds, Matrices for 12 pt. Mono, and 16 pt. for type caster, galleys, leads, types, quotations, metal furnitures, type-composing cabinets etc.

The machines and materials ordered will be arriving early next year. The erection will be done soon after all the machines are received.

6. Printing Activities

During the year 698 + 69 examination papers were printed under conditions of secrecy for the University Examinations. The Press also printed Syndicate and Senate proceedings, Hand-books, Annual Report, Annual Accounts, Budget Estimates, Establishment list, Pamphlets, Certificates, etc., General Forms, lists, prospectus, questionnaires, magazines etc. of the Faculties and Institutions.

(1) The following is the list of the books printed and published during the year :

The Biology of Polytocia	(M. S. University of Baroda)
Statistical Summary of Students	(M. S. University of Baroda)
Medical Report for 1958-59	
Weaving	(Tairo)
Symposia Series 10—Pre-School Child	(M. S. University of Baroda)
Symposium on General Education	(M. S. University of Baroda)
Physiological Variation and Evaluation	(M. S. University of Baroda)
Sitar Darpana	(Music College)
Handbook Part IV	(M. S. University of Baroda)
Handbook of Chemical Conservation	(Museology Department)
of Museum Objects	
प्रोफेसर गज्जरनी जीवनकथा	(Oriental Institute)
Bhils of Ratanmal	(Faculty of Arts)
Indian History—A study in Dynamics	(Faculty of Arts)
A Statistical Summary of Students	(Faculty of Science)
Medical Report for 1959-60	
Chronology of Gujarat	(M. S. University of Baroda)
Drama—Humanities Lectures	(General Education Department)
गुजराती भाषाशास्त्र—भाग २, खंड ३	(Oriental Institute)
Girvanapadmanjari and Girvanvanga-	(Oriental Institute)
manjari	
Evolution of Concept of Universalism	(Faculty of Education and Psycho-
in Education	logy)

Sangeetopanishatsaroddhara	(Oriental Institute)
Ullagharaghavanatakam	(Oriental Institute)
Pada-Index of Valmiki Ramayana, Vol. I	(Oriental Institute)
प्राचीन फायुसंग्रह	(Faculty of Arts)
आपणुं विश्व	(Oriental Institute)
Plan and Practice in Social Studies	(Faculty of Education and Psychology)
The New approach to the teaching of General Science	(Faculty of Education and Psychology)
A New approach to the teaching of Social Studies	(Faculty of Education and Psychology)
Ramayana Critical Edition—Balakanda Vol. I	(Oriental Institute)
A Report on the Inquiry into the Occurrences of Wastage and Stagnation	(Faculty of Science)
Handbook Part I	(M. S. University of Baroda)
Dictionary of Sanskrit Grammar	(Oriental Institute)
A Study of Attitudes of University Students	(Faculty of Education and Psychology)
Vowel system of Gujarati	(Faculty of Education and Psychology)
Problem of Administration in two Indian Villages	(Faculty of Arts)
The Story of the Earth	(M. S. University of Baroda)
Planning and Freedom	(M. S. University of Baroda)
Mers of Saurashtra	(Faculty of Arts)

(2) The following Journals were printed during the year :

The Journal of Maharaja Sayajirao University	(Half yearly)
The Journal of Animal Morphology and Physiology	(Half yearly)
The Journal of Oriental Institute	(Quarterly)
The Journal of Educational and Vocational Guidance	(Quarterly)
The Journal of Education and Psychology	(Quarterly)
The Journal of Association of Principals of Tech. Institution, India	(Quarterly)
The Education and Psychology Review	(Quarterly)

(3) The following works are in Progress :

वैशेषिक सूत्र	(Oriental Institute)
मानसोल्लास	(Oriental Institute)
Mirat-I-Sikandari	(Faculty of Arts)

Ramayana critical Edition of Ayodhyakanda	(Oriental Institute)
पंचाख्यान	(Faculty of Arts)
Akbar	(Faculty of Arts)
प्रवेशको	(Faculty of Arts)
Vishnudharmottara, Vol. II	(Oriental Institute)
प्राचीन साहित्यमां कला संबंधी उल्लेखो	(Faculty of Fine Arts)
Geography of Padra Town	(Faculty of Science)
टोमस आल्वा एडिसन	(Oriental Institute)
आपणी खनिजसंपत्ति	(Oriental Institute)
हरिभद्रसूरी	(Oriental Institute)
नृत्याध्याय	(Faculty of Arts)
गोविन्द हुल्लास नाटक	(Faculty of Arts)
अखानी बानी	(Faculty of Arts)
श्रवणाख्यान	(Music College)
आम्राधराणाकी चीजे	(Oriental Institute)
नाट्यशास्त्र, Vol. IV	(Oriental Institute)
मीरां अक अध्ययन	(M. S. University of Baroda)
Hand-book Part III	(Sanskrit Mahavidyalaya)
परमलघुमंजूषा	(Oriental Institute)
धूर्तस्वामी भाष्य	(Oriental Institute)

7. University Stationery Unit

This Unit is a service department of the University and is under direct supervision and control of the University Press Manager. It purchases and distributes stationery every quarter to all the Faculties, Institutions and University Office. A special staff—one Clerk, one Attender and one Distributor—is provided for this Unit under the Press Manager. During the year Stationery worth Rs. 98,257/- was purchased and Stationery worth Rs. 97,683/- was distributed.

8. University Publications Sales Unit

This Unit was started in November-December, 1959, under direct control and supervision of the University Press Manager. The establishment consists of a Senior Clerk, a Clerk and an Attender. The Unit got the stock of books from the Oriental Institute and from some Faculties. Show-cases are fixed in walls and on the right side of the entrance of the Press to display different publications. The stock of books is kept in the cellar of the Press. The total sale of books during the year was Rs. 37,005.

CHAPTER XXIV—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

The Maharaja Sayajirao University Union embodies the creative functions of a residential University life, reflecting the corporate spirit in a co-operative endeavour. It is a cultural body devoted to cultural and constructive programmes. The students of the University, irrespective of their diverse academic pursuits and cultural life, imbibe the feeling of organic unity and a sense of belonging.

When the academic year 1960-61 opened Shrimati Indira Bhanot took the charge of the Presidentship of the Union from Shri H. C. Dholakia. Shri C. C. Shah continued to be the Treasurer of the Union. Elections to other offices were held on the 23rd July, 1960 and the following Executive Committee was formed :

1	Shrimati Indira Bhanot	President
2	Shri C. C. Shah	Treasurer
3	Shri Yeshwant Mistry	Vice-President
4	Shri Premnath Bhandari	General Secretary

5	Shri Dilip Shah	} Members nominated by the Syndicate
6	Shri Bhailalbai Contractor	
7	Shri Arun Shroff	
8	Kumari Ila C. Patel	

In addition to the above there were other 18 members who were the representatives of various Faculties and teaching institutions of the University.

The following members were nominated on the University Students' Welfare Board, University Board of Sports and the University Poor Students Aid Fund Committee :

(1) University Students Welfare Board	(1) Shri Y. D. Mistry
	(2) Shri P. N. Bhandari
(2) University Board of Sports	(3) Shri Ratan Desai
	(1) Shri P. N. Patel
(3) Poor Students Aid Fund Committee	(2) Shri B. L. Parmar
	(1) Shri P. N. Bhandari
	(2) Shri Y. D. Mistry
	(3) Shri D. A. Patel

2. Activities of the Sub-Committees

The M. S. University Union Executive Committee formed Sub-Committees for various Union activities keeping in view the aims and objects laid down for the constitution of the Union. The different Sub-Committees carried on the following activities during the year :

(1) Poor Boys Library Committee :

The Committee began the work with a budget of Rs. 2,000/- and a collection of about 2,000 books. It augmented the library collection to a considerable extent and the distribution work of books to deserving students was properly attended to in the year under report.

(2) Indoor Games Committee :

Students are showing more interest every year in Table Tennis and Badminton. Two different committees were formed for Table Tennis and Badminton during the year. The University Tournaments were held in Table Tennis, Carrom, Chess, Draughts, Bridge, Ring Tennis, etc. The Inter-Faculty Table Tennis Tournaments were also held. The University Badminton team participated in the All-India Inter-University Badminton tournaments held at Cuttack in the second week of October, 1960. The Men's team defeated the Utkal University team. Two University players were also selected to represent the State in All India National Table Tennis Championships held at Hyderabad.

(3) Debating Society :

The following Debates were conducted during the year and most of them were well attended :

- (i) Vice-Chancellor Trophy Debate
- (ii) Shri Nathjibhai Bhatt Trophy Debate in Gujarati
- (iii) Shri B. N. Majmundar Trophy Debate in Hindi
- (iv) Shri M. N. Wadia Trophy Debate in English
- (v) All India Co-operative Week Celebration Debate in English
- (vi) Debate for Students of Experimental School in English, Hindi and Gujarati.
- (vii) Debate for First Year Students in English, Hindi & Gujarati.

The University was also represented at different Inter-University Debates :

- (i) All India Inter-University Co-operative Debate held at Delhi.
- (ii) All India Inter-University Debate held at Waltair.

(iii) All India Inter-University N.C.U.S.I. Debate held at Nagpur.

(iv) All India Inter-University Debate held at Aligarh.

(4) *Reading-room and Library :*

The Committee subscribed to many of the current periodicals, books, newspapers etc. representing a variety of Cultural, Social and Political views. Because of the heavy rush at the Shrimati Hansa Mehta Library for reading during examination time, the Union is thinking of giving reading facilities to students by equipping one big Hall with tables and chairs, etc. from next year. The Committee also continued the work of issuing books as usual.

(5) *Hiking Club :*

The Hiking Club arranged a Hike to Mount Harmouck in Kashmir. The members were fortunate in having met Shri Jawaharlal Nehru, Prime Minister of India at Delhi, on their way to the hike.

(6) *Film Club :*

The film club provided entertainment to students in the Open Air Theatre of the Pavilion and at the Auditorium of the Faculty of Technology and Engineering. The University Grants Commission's scheme of enrolling members and showing them selected Educational Films could not be implemented this year due to unavoidable circumstances. It is decided that from the next year the club will work on the lines suggested by the University Grants Commission.

(7) *United Nations Organisation Society :*

The Society arranged a talk by Miss Dorothy Clerk, the Officer of the U.S. Information Service, who showed some films also. It celebrated the U.N.O. Day on the 24th October, 1960 in collaboration with the Collector of Baroda's Office. An essay competition was also arranged on the subject 'Role of Youth in promoting National Unity'. A delegation of four students and a teacher in charge was sent to Jaipur to take part in the U.N. Moot Session. The delegation represented the U.S.A. at the Session.

(8) *Discussion Group :*

The Discussion Group arranged two discussions of the members of the teaching staff and students of different faculties.

This year also the members of the Group won the Inter-University Radio Discussion in Gujarati and the Zonal prize in English Discussion.

(9) *Variety Entertainment Committee :*

The Committee organised a programme at the auditorium of the Faculty of Technology and Engineering. The programme consisted of Dance, Garba, Group Song, Instrumental Music, Individual Song, etc.

(10) *Bulletin Committee :*

The Committee published an issue, containing articles on interesting subjects and Faculty news, during the first term.

(11) *Students' Service Committee :*

A training camp of a few days duration was held by the Deputy Inspector General of Police in connection with the scheme of 'Road Safety Patrol' which was inaugurated by the Deputy Minister for Co-operation, Gujarat State. Two students of each of the Faculties and Institutions were deputed to the camp by the Union. After training, they controlled traffic at some important places near the University Campus and gave instructions to cyclists, pedestrians, car drivers, etc.

3. University Week

The University Youth Festival is a regular annual feature. It is a week-long programme comprising of varied and interesting items like the Annual Sports, Inter-Faculty Debates, Inter-Faculty Competitions for Drama, Garba, Group Song, Group Dance, Brain-Trust, Kavisammelan, Festival Cricket Match, academic and cultural exhibitions in different Faculties of the University and public entertainment for students. Every important item of the programme carries a trophy and number of prizes.

As a part of the Eleventh University Week Celebrations in December, 1960, a Hobby Exhibition organised for the first time on a large scale was declared open by Professor K. G. Saiyadain, Officer on Special Duty, Ministry of Education, Government of India, New Delhi who was the Chief Guest at the University Week. Ticket shows for students were held for five days where selected prize-winning items were presented in Mahatma Gandhi Nagar Grah. The whole cultural programme was carried out in a peaceful and disciplined atmosphere.

4. Other Important Events

A number of distinguished visitors came to the Union Pavilion.

Name

1. Nawab Mehdi Nawaz Jung,
Governor, Gujarat State, Ahmedabad.

Name

2. Professor K. G. Saiyadain,
Officer on Special Duty,
Ministry of Education, Government of India, New Delhi.
3. Mr. Henri Dumont,
French Consul General.
4. Shri A. A. Jasdanwala,
Deputy Minister for Land, Fisheries and Accommodation,
Gujarat State, Ahmedabad.

CHAPTER XXV—LECTURES AND DEPUTATIONS

1. University Extension and other Lectures

The following lectures were delivered under the auspices of the University during the year :

Sr. No.	Date	Name of the Lecturer	Subject
Faculty of Science			
1	14-10-1960	Dr. S. C. Bhattacharya, Assistant Director, National Chemical Laboratory, Poona-8	(1) Macrocyclic musk like compounds
2	15-10-1960	Dr. S. C. Bhattacharya, Assistant Director, National Chemical Laboratory, Poona-8	(2) Some interesting Terpenoids
3	14-2-1961	Professor H. N. Andrews, Visiting Professor of Botany at the University of Poona	(1) Heterospory and the Evolution of the seed
4	15-2-1961	Professor H. N. Andrews, Visiting Professor of Botany at the University of Poona	(2) Some National Parks and other areas of Botanical interest in the United States.
5	20-3-1961	Professor V. Hlavaty, Professor of Mathematics of Indiana University, U.S.A.	(1) The Structure of our space. (2) General Survey of Einstein's latest Unified Theory.
Faculty of Medicine			
1	19-12-1960	Dr. Jamanadas C. Patel	"Tetanus : Increasing menace, its treatment and prevention"
Faculty of Technology and Engineering			
1	13-12-1960	Professor G. B. Pant, National Defence Academy, Poona	Solelites of space Travel
2	30-1-1961 31-1-1961	Professor H. N. Ramchandra, Head, Department of Power Engineering, Indian Institute of Science, Bangalore	Net Work Analyser
3	25-2-1961	Shri U. J. Bhatt, Chief Engineer (Roads), P. W. D., Ahmedabad	Highway Planning in India

Sr. No.	Date	Name of the Lecturer	Subject
Faculty of Home Science			
1	31-1-1961	Shri Shesh Namle, Bombay	The Early Childhood Education Movement in India
2	27-2-1961 28-2-1961	Dr. (Kumari) Ramseshan, Dean of Women Batala College, Batala	The Current Trends in Evaluation in India and How We can Stretch these phases in Home Science
Faculty of Social Work			
1	7-11-1960	Dr. J. F. Bulsara, Bombay	Urban Community Development
2	18-1-1961	Dr. Bhagwandas P. Shah, Child Psychiatrist and Psychiatric consultant, Bombay	(1) Treatment of Emotionally disturbed Children in a Child Guidance Setting (2) Social Worker and Mental Hygiene
Department of Museology			
1	6-3-1961	Dr. (Miss) Grace Morley, Director National Museum of India, New Delhi	(1) Role of 'Unesco' in the Development of Museums
2	7-3-1961	Dr. (Miss) Grace Morley, Director, National Museum of India, New Delhi	(2) Collection and Display of Art Objects
3	8-3-1961	Dr. (Miss) Grace Morley, Director National Museum of India, New Delhi	(3) Development of Modern Art from the beginning of the 19th Century to the present
Oriental Institute			
1	5-1-1961	Dr. A. N. Upadhye, Professor of Ardha Magadhi, Rajaram College, Kolhapur	(1) Some Aspects of Prakrit Studies: A Look Back
2	6-1-1961	Dr. A. N. Upadhye, Professor of Ardha Magadhi, Rajaram College, Kolhapur	(2) Some Aspects of Prakrit Studies: A Look Ahead
3	27-2-1961	Professor Chhotubhai R. Naik, Professor of Persian, B. J. Institute of Learning and Research, Gujarat Vidya Sabha, Ahmedabad	(1) ગુજરાતી ભાષા ઉપર ફારસીની અસર

Sr. No.	Date	Name of the Lecturer	Subject
4	28-2-1961	Professor Chhotubhai R. Naik, Professor of Persian, B. J. Institute of Learning and Research, Gujarat Vidya Sabha, Ahmedabad	(2) ગુજરાતી સાહિત્ય ઉપર ફારસીની અસર
5	1-3-1961	Professor Chhotubhai R. Naik, Professor of Persian, B. J. Institute of Learning and Research, Gujarat Vidya Sabha, Ahmedabad	(3) સૂફીવાદ અને ગુજરાતી કવિતા
6	24-2-1961	Dr. P. L. Vaidya, Professor of Sanskrit and Allied Languages, (Retired) Wadia College, Poona and Banaras Hindu University, Varanasi	(1) Extent and Language of Buddhist Literature in Sanskrit
7	25-2-1961	Dr. P. L. Vaidya, Professor of Sanskrit and Allied Languages, (Retired) Wadia College, Poona and Banaras Hindu University, Varanasi	(2) The Prajnaparamita Literature
8	26-2-1961	Dr. P. L. Vaidya, Professor of Sanskrit and Allied Languages, (Retired) Wadia College, Poona and Banaras Hindu University, Varanasi	(3) Place of Episodes in the Epics
College of Indian Music, Dance and Dramatics			
1	30-1-1961 31-1-1961 1-2-1961	Shri Prabhakar Gupte, Principal, Natya Academy, Poona	Voice Training and Drama Production
Polytechnic			
1	28-2-1961 1-3-1961	Shri M. A. Lokhande, Consulting Drainage Engineer, Bombay	Modern Trends in Sewage Disposal
2	6-3-1961 7-3-1961	Shri L. P. Borker, Superintendent and Chemist, Sewage Purification Works, Dadar, Bombay	Working and Management of the Modern Sewage Purification Works
Maharaja Sayajirao Memorial Lectures			
1	16-11-1960 and 17-11-1960	Dr. S. Bhagavantam, Director, Indian Institute of Science, Bangalore	"The Story of our Earth"

Sr. No.	Date	Name of the Lecturer	Subject
2	12-12-1960 and 13-12-1960	Professor K. G. Saiyidain, Officer on Special Duty, Ministry of Education, Government of India	The Educational Philosophy of Maulana Azad
3	5-2-1961	Professor F. E. Zeuner, Professor of Environmental Archaeology, University of London	(a) Environment as inferred from implements
4	6-2-1961	Professor F. E. Zeuner, Professor of Environmental Archaeology, University of London	(b) Environment from Soils and Sediments
5	7-2-1961	Professor F. E. Zeuner, Professor of Environmental Archaeology, University of London	(c) Environment from Fauna

2. Deputation to Conferences

The following members of the University staff were deputed to attend the Conferences shown against their names, as delegates of the University during the period from the 1st April, 1960 to the 31st March, 1961 :

Sr. No.	Name of the member of the staff	Name, place and dates of the Conference
1.	Shri C. M. Kolhatkar (Faculty of Technology and Engineering)	Second Research Workers' Conference held at Roorkee from the 11th to the 13th April, 1960
2.	Shri S. R. Yardi (Faculty of Social Work)	Workshop on Methods and Techniques of Workers' Education arranged by Indian Adult Education Association at New Delhi from the 11th to the 17th April, 1960
3.	Dr. C. P. Shukla (Smt. Hansa Mehta Library)	The Conference of the Indian Library Association at Calcutta on the 17th April, 1960
4.	Professor B. J. Sandesara (Oriental Institute)	Conference, Bhartiya Bhashya Parishad at Ahmedabad on the 17th April, 1960

Sr. No.	Name of the member of the staff	Name, place and dates of the Conference
5.	Professor (Shrimati) Indra S. Tayal Shri G. G. Dadlani Shri S. R. Yardi (Faculty of Social Work)	T.C.M. Seminar at Mussorie from the 11th to the 24th May, 1960
6.	Professor C. P. Singh Shri B. L. Sinha Dr. A. S. Nagar (Faculty of Arts)	Annual Session of Bharatiya Hindi Parishad under the auspices of the Delhi University at New Delhi from the 28th to the 30th May, 1960.
7.	Professor M. B. Dave Shri M. B. Achwal (Faculty of Technology and Engineering)	Annual Town and Country Planning Seminar at Bangalore from the 16th to the 23rd September, 1960
8.	Kumari Shakti Chhabra (Faculty of Home Science)	Workshop on Food and Nutrition arranged by Lady Irwin College under the Leadership of T.C.M. Technicians at New Delhi from the 3rd to the 12th October, 1960
9.	Professor J. C. George (Faculty of Science)	Symposium on Termites in the Humid Tropics at New Delhi from the 4th to the 12th October, 1960
10.	Dr. A. G. Javdekar (Faculty of Arts)	Sixth Annual Session of Akhil Bharatiya Darshan Parishad at Udaipur from the 7th to the 9th October, 1960
11.	Professor I. P. Desai Shri N. R. Sheth (Faculty of Arts)	Sixth Session of the Indian Sociological Conference at Sagar (M. P.) from the 15th to the 17th October, 1960
12.	Shri L. J. Bhatt Dr. A. S. Patel (Faculty of Education and Psychology)	Annual meeting and Conference at All India Educational and Vocational Guidance Association at Hyderabad (Dn.) from the 26th to the 28th October, 1960
13.	Shri S. R. Ramdeo (Faculty of Social Work) Shri S. H. Shah (S.E.O. Training Centre)	Eleventh National Seminar on Community Organisation in Social Education at Aliabada, Gujarat State from the 26th to the 30th October, 1960

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
14.	Professor M. B. Desai (Faculty of Arts)	Seminar on Problems of Cost Studies in Agriculture at Matheran from the 27th October, to the 5th November, 1960
15.	Professor C. P. Singh (Faculty of Arts)	Fourth Annual Session of Akhil Gujarat Rashtrabhasha Prachar Sammelan at Vallabh Vidyanagar from the 31st October, to the 2nd November, 1960
16.	Kumari Jayabala P. Patel (Faculty of Social Work) Shri D. G. Apte (Faculty of Education and Psychology)	Seventeenth All India Adult Education Conference held in Gangajala Vidyapeeth, Aliabada, Gujarat State on the 1st and the 2nd November, 1960
17.	Shri G. P. Bhatt (University Experimental School)	First Conference of Headmasters of Gujarat State at Ahmedabad on the 4th and the 5th November, 1960
18.	Shri S. M. Divekar (Faculty of Education and Psychology)	Eighth Annual Session of Gujarat Nayee Talim Sangh at Swaraj Ashram, Vedchhi, District Surat on the 4th and the 5th November, 1960
19.	Professor B. Subbarao (Faculty of Arts)	Conference on Asian Archaeology at Delhi on the 20th November, 1960
20.	Professor (Shrimati) Ammu M. Muzumdar (Faculty of Social Work)	National Seminar on Public Co-operation for Social Welfare with special reference to the Third Five Year Plan at Chandigarh from the 26th November to the 1st December, 1960
21.	Dr. J. D. Pathak Dr. M. L. Pai (Faculty of Medicine)	Annual meeting of the Association of Physiologists and Pharmacologists of India and of the Indian Council of Medical Research at Hyderabad from the 3rd to the 9th December, 1960
22.	Shri H. C. Dholakia (Faculty of Arts)	All India Seminar on International Law at New Delhi from the 8th to the 10th December, 1960

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
23.	Dr. S. L. Bafna (Faculty of Science)	Symposium on Nuclear and Radiation Chemistry held under the auspices of the Indian Chemical Society at Calcutta on the 9th and the 10th December, 1960
24.	Professor V. Y. Kantak (Faculty of Arts) Shri C. K. Sheshadri (Faculty of Technology and Engineering)	Fourth English Literature Seminar of the British Council held under the auspices of Osmania University, Hyderabad from the 15th to the 24th December, 1960
25.	Shri P. M. Majmudar (Faculty of Commerce)	Fourth All India Labour Economics Conference held at Chandigarh from the 21st to the 24th December, 1960
26.	Professor M. B. Desai (Faculty of Arts) Dr. R. N. Naik (Faculty of Commerce)	Twentieth Annual Conference of the Indian Society of Agricultural Economics held under the auspices of the Punjab University at Chandigarh from the 21st to the 25th December, 1960
27.	Professor P. J. Madan Shri R. C. Patel Dr. R. T. Shah (Faculty of Technology and Engineering)	Sixth Congress on theoretical and Applied Mechanics of the Indian Society of Theoretical and Applied Mechanics, Indian Institute of Technology, Kharagpur at New Delhi from the 23rd to the 26th December, 1960
28.	Dr. S. C. Misra Shri R. Krishnamurti Shri Bhagwansingh Suryavanshi (Faculty of Arts)	Indian History Congress, held at Aligarh from 26th to the 28th December, 1960
29.	Dr. A. G. Javadekar (Faculty of Arts)	Thirty-fifth Session of the Indian Philosophical Congress held at Waltair under the auspices of the Andhra University from the 27th to 30th December, 1960
30.	Dr. M. S. Patel (Faculty of Education & Psychology)	Thirty-fifth All India Education Conference at Kanpur from the 27th to the 31st December, 1960

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
	Shri G. P. Bhatt (University Experimental School)	Thirty-fifth All India Education Conference at Kanpur from the 27th to the 31st December, 1960
	Shri B. L. Shanbhogue (Oriental Institute)	Thirty-fifth All India Education Conference at Kanpur from the 27th to the 31st December, 1960
	Shrimati Kusum Pandya (Chetan Balwadi)	Thirty-fifth All India Education Conference at Kanpur from the 27th to the 31st December, 1960
31.	Shri K. S. Desai Shri R. A. Vakil (Faculty of Arts)	Twenty-third Annual Conference of the Indian Political Science Association held at Patna from the 27th to the 29th December, 1960
32.	Professor U. N. Singh Shri B. S. Yadav (Faculty of Science)	Twenty-sixth Annual Conference of the Indian Mathematical Society at Chandigarh from the 27th to the 29th December, 1960
33.	Dr. H. L. Dholakia Shri H. B. Desai (Faculty of Commerce)	Fourteenth All India Commerce Conference under the auspices of the All India Commerce Association at Jabalpure from the 28th to the 30th December, 1960
34.	Shrimati Renuka Mukerji Kumari Anjali H. Trivedi (Faculty of Home Science)	Fifth Biennial Conference of the Home Science Association of India held in Avinaslingam, Home Science College, Coimbatore from the 29th to the 31st December, 1960
35.	Shri R. N. Mehta Shri V. D. Salgaonkar Shri D. D. Mahulkar Shri J. D. Desai (Faculty of Arts)	Eleventh Session of the All India English Teachers' Conference at New Delhi from the 28th to the 30th December, 1960
36.	Kumari Savitha Satakopan, Shri D. G. Patel (Sheth U.P.A.R. Unit)	Thirteenth Indian Pharmaceutical Conference at Delhi from the 30th December, 1960 to the 1st January, 1961

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
37.	Shri S. C. Parikh, Shri G. R. Sudame (Faculty of Education and Psychology)	Fifth Annual Session of All India Science Teachers' Association at Kanpur on the 26th and the 27th December, 1960
38.	Professor I. S. Gulati Shri Rajendra Kumar (Faculty of Arts) Dr. K. S. Venkatraman (Faculty of Commerce)	Forty-third Session of All India Economic Conference held under the auspices of Punjab University at Chandigarh in December, 1960
39.	Dr. N. S. Pandya (Faculty of Science)	Fifth Annual Symposium on Spectroscopy under the auspices of Convention of Spectroscopists, India held on the 2nd January, 1961, at Roorkee
40.	Shrimati V. A. Janaki (Faculty of Science)	Annual Meeting and Sessions of the Indian Council of Geographers held at Roorkee in the first week of January, 1961
41.	Dr. A. S. Patel, Dr. (Smt.) P. T. Phatak (Faculty of Education and Psychology)	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri K. N. Trivedi, (Department of General Education)	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Dr. M. L. Pai, (Faculty of Medicine)	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Professor D. V. Gogate	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Dr. N. S. Pandya	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Dr. C. H. Pathak	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
	Dr. C. M. Mehta	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Dr. J. S. Dave	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri M. C. Ghia	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri M. H. Ajwani	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri A. R. Patel	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri S. S. Lele	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri J. M. Lohar	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri V. P. Bhatt	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri R. D. Rao	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri J. R. Pandya	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961
	Shri H. S. Desai (Faculty of Science)	Forty-eighth Session of Indian Science Congress held at Roorkee from the 3rd to the 9th January, 1961

<i>Sr. No.</i>	<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conference</i>
42.	Dr. J. S. Dave (Faculty of Science)	Symposium on Redox Processes held under the auspices of the Council of Scientific and Industrial Research at Allahabad on the 1st and the 2nd February, 1961
43.	Dr. J. S. Dave (Faculty of Science)	Thirtieth Annual Session of the National Academy of Sciences, India, held at Allahabad from the 3rd to the 5th February, 1961
44.	Professor P. J. Madan (Faculty of Technology and Engineering) Professor C. H. Khadilkar (Polytechnic)	Twentieth Annual Conference of the Association of Principals of Technical Institution (India) at the P. S. G. College of Technology Coimbatore from the 9th to the 12th February, 1961
45.	Dr. N. S. Pandya (Faculty of Science)	Nuclear Physics Symposium 1961 held in Bombay from the 27th February to the 2nd March, 1961
46.	Shrimati Amita Verma (Chetan Balwadi) Kumari Anjali Trivedi (Faculty of Home Science)	Workshop on Child Development at S. N. D. T. College in Bombay from the 14th to the 21st March, 1961

CHAPTER XXVI—GENERAL EDUCATION DEPARTMENT

1. Brief History

During the formative years of the University when new Faculties were being established and old ones consolidated, considerable thinking was done on the place General Education should have in the total academic programme of the University. It was felt that while a University should make provision for specialised studies in the various fields of knowledge, it should also provide for the basic requirement, that every student, no matter what his speciality, has some understanding of the physical world in which he lives, an appreciation of the complex social relationships by which he is surrounded and a grasp of human values which can be developed through contact with Art, Literature and the Humanities. In other words, it was necessary to find a place for the element of liberal education alongside highly specialised studies.

To fulfil this need, the University accepted the principle that General Education should be an important complement to specialisation. Accordingly, a beginning was made as early as 1953 when a programme of General Education lectures and discussions was arranged for the Final Year students of the Arts, Science and Commerce degree courses. The results of this exploratory work were encouraging. Members of the staff gained a better understanding of the aims and techniques of General Education through experience of working the pilot project, as well as through visits to foreign Universities and contacts and discussions with experts in the field. As a result, a comprehensive scheme was undertaken from June, 1957, embracing the Preparatory Year Course, the First and Second Year Degree Courses in Arts, Science, Commerce, Fine Arts, and Home Science as well as the Pre-Medical Year and the First Year of the Engineering Course. The Preparatory Course was re-organised, making General Education an integral part of its curriculum.

2. Organisation

The Department works under the guidance of the General Education Advisory Committee. During the year under report the staff of the department consisted of one Co-ordinator, one Joint-Co-ordinator, one Assistant Co-ordinator, five Special Lecturers, three Class III and two Class IV servants. Forty-two members of the staff from the various departments

of the University also participated in the preparation of the reading material and shared the teaching work.

3. Building

The Department of General Education is at present housed in the Faculty of Education and Psychology. The Ford Foundation of U.S.A. has given the University a grant of 4,30,000 U.S.A. dollars for the construction of a new building and for purchase of equipment and books for the General Education Centre. The construction of the building, which is estimated to cost about Rs. 15 lakhs, was started in the year 1957-58. An expenditure of about Rs. 10,90,388-99 was incurred upto the 31st March, 1961.

4. Students under the Programme

The number of students who came within the scope of the General Education programme during the year is as under :

<i>Course</i>	<i>Number</i>
(1) Preparatory Course :	1,341
Arts	424
Science	506
Commerce	411
(2) Degree Courses :	2,165
Arts	621
Science	327
Commerce	689
Technology and Engineering	296
Fine Arts including Music College	57
Home Science	175
Total	3,506

5. Syllabus

At the Preparatory Year stage, the entire curriculum is conceived of as a General Education programme. The Preparatory Course consists of (a) a major programme in Literature, Art Appreciation, Social Studies and Biological Science and (b) a minor programme providing for the introduction to subjects pertaining to Arts, Science and Commerce streams.

The General Education syllabus for the First and Second Years of the degree courses in Arts, Science, Commerce, Fine Arts, Home Science,

and for the First Years of the Medical and Engineering courses consists of an integrated programme of lectures and discussions on selected themes from the three broad fields of Humanities, Social Sciences and Natural Sciences. The syllabus is so arranged that a student specialising in any one of these fields receive General Education in the other two fields. Thus, for instance, Science, Engineering and Medical students receive General Education in Humanities and the Social Sciences. Similarly, Arts and Commerce students receive General Education in Natural and Social Sciences.

The topics included in the broad fields have been gradually formulated over the last seven years and are being modified in the light of new experience. A broad outline of the syllabus for the degree course students of the various Faculties is given below :

A. Humanities :

- (i) Literature I : Readings from Modern Indian Literature—Selected passages from Hindi, Gujarati, Marathi (along with English rendering) Milestones in the development of Indian Literature in the post-Mutiny Period (1857-1957) with Special reference to the study of novel, drama and poetry.
- Literature II : Readings from Drama (Sanskrit and English), Comparative study of Theatre and Drama : with reference of Kalidasa, Bhavabhuti, Shakespeare, Sophocles and Ibsen.
- (ii) Fine Arts : Development of Art Forms from the earliest time to the present day—How to appreciate Art.
- (iii) Philosophy : Selected readings from the works of philosophers on ' the concept of the highest good '.
- (iv) World History : Pre-history—Early civilizations—Early European civilizations—Religious Systems. The Middle Ages—The Renaissance—Science and Industrial Revolution.

B. Social Sciences :

- (i) Social Problems : Our present society : the contemporary pattern of the family, caste and marriage : Urban communities. Group behaviour—behaviour traits attitudes—social conflict—prejudice and tensions—social control.
- (ii) Political Science : Problems of Indian Democracy—International politics. Political Doctrines—Individualism, Idealism, Fascism, Socialism and Communism.
- (iii) Economics : Indian Agricultural problems—Problems of Indian Industry—Indian Five Year Plans.

C. Natural Sciences :

The Nature of Physical Universe : The Solar system and Universe—The Earth—The Atmosphere—Air and Water—Matter and Energy—The Atom and Atomic Energy.

Man's Exploitation of the Natural Resources : Power Resources—Agricultural Resources—Mineral Resources—Conquest of Air.

D.—The following concluding topics are common to the General syllabi of all students of the Second Year Degree Class—(Arts, Science and Commerce) :

- (i) The Scientific Method
(ii) Science and Society
(iii) Science and Literature.

CHAPTER XXVII—STUDENTS' WELFARE ACTIVITIES

1. University Halls of Residence

The University, being residential, makes constant efforts to enhance and improve residential accommodation for the students. At its start in 1949, the University had accommodation for 200 men students in University owned buildings and for another 200 men students in rented buildings. There was no Hostel accommodation for women students. During the course of the last ten years five Halls for men students and two new Halls for women students were constructed. At the end of the year under report there were in all seven Halls for men and two Halls for women students. Three new Halls for men students and one for women students are under construction. The ground floor rooms in the three new Halls are ready for occupation and will provide accommodation for 280 students. Plans and estimates for one more new Hall for men students have been approved and the foundation work has been started.

The general policy of the University is to distribute students from various Faculties in different Halls so that every Hall would have students from different Faculties. The University looks upon this as an important step to promote amongst the students of the University interest in Faculties other than their own.

In all 3,595 applications were received for admission to the Halls. To cope up with this huge demand to some extent it was decided to admit a few students in each Hall as third partners. Accordingly additional 224 students were admitted in the first term of the year and 193 in the second term. At the end of the year, 1,361 students were in residence in the Halls as against 1,168 at the end of the previous year. The following statement gives the break up of these students by Halls and Institutions :

Faculty or College	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Maharshi Arvind Hall	Shri Dadabhai Naoroji Hall	Dr. Jivraj Mehta Hall	Prof. T. K. Gajjar Hall	Shri Keshav Prasad Hall	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Total
1 Arts ..	8	8	4	4	6	6	—	48	5	89
2 Science ..	13	25	25	7	18	6	—	19	—	113

Faculty or College	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Maharshi Arvind Hall	Shri Dadabhai Naoroji Hall	Dr. Jivraj Mehta Hall	Prof. T. K. Gajjar Hall	Shri Keshav Prasad Hall	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Total
3 Commerce..	10	8	11	6	16	23	—	2	5	81
4 Education & Psychology.	—	7	7	8	7	3	—	23	9	64
5 Medicine ..	14	20	23	4	33	20	—	24	9	147
6 Technology & Engineering.	59	50	38	21	47	62	28	3	3	311
7 Polytechnic.	9	11	21	10	5	4	4	—	—	64
8 FineArts ..	1	1	4	—	—	2	—	7	6	21
9 Home Science	—	—	—	—	—	—	—	88	92	180
10 Social Work	2	3	9	—	2	8	—	5	4	33
11 Preparatory Unit	26	40	27	15	42	49	—	35	16	250
12 College of Indian Music, Dance and Dramatics	—	1	—	—	—	—	—	5	2	8
Total ..	142	174	169	75	176	183	32	259	151	1,361

Administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and the Wardens' Committee. One of the Wardens continued to work as Chief Warden till the 31st August, 1960. The Chief Warden's post was abolished from the 1st September, 1960 and from that date Deputy Registrar of the University has been appointed as the Ex-Officio Secretary of the Wardens' Committee.

All the Halls have been provided with well-equipped reading-rooms. They have libraries also. Students are contributing towards the purchase of newspapers and magazines. Indoor games are also provided. The University has appointed two honorary Medical Officers—one for men's Halls and the other for women's Halls. These medical officers visit the Halls twice a week and give free medical advice to the students. Arrangements are also made to dispense ordinary medicines to the students on a nominal charge.

As in the previous year the cultural and social activities were organised by the following committees in each Hall :

1. Food Committee
2. Sports Committee
3. Entertainment and Debate Committee
4. Reading-room & Library Committee
5. Health & Sanitation Committee

In each Hall meeting and talks were arranged, musical and social evenings were organised and games, tournaments and debates were held.

The following were some of the important items of sports, social and cultural activities of the year :

(1) *Shrimati Hansa Mehta Hall*

Students started a recreational Centre and every evening after Dinner they organised some programmes in the form of discussions, musical evenings, dancing, handicrafts, etc. Teachers from different faculties and visitors were invited to give talks at this centre.

(2) *Shrimati Sarojini Devi Hall*

In the University Sports the Champions for both Swimming and Badminton were students from this hall. One student of this hall won the first prize in the Gujarat Painting Competition.

(3) *Maharshi Arvind Hall*

A Brain-trust was arranged under the Chairmanship of Dr. O. D. Gulati.

(4) *Dr. Jivraj Mehta Hall*

A film-show on 'German Life and People' was arranged.

(5) *Manubhai Mehta Hall*

The Hall organised a "hobby exhibition" for one week in which students of the Halls displayed their hobby products. The exhibition was declared open by the Pro-Vice-Chancellor Dr. C. S. Patel. It was kept open for a week and attracted many visitors. Dr. J. M. Mehta and Shrimati Saralaben Mehta attended the prize distribution function.

2. Medical Examination of Students for the year

The University arranges during the first term of every academic year a medical check-up of all students who are admitted for the first time in the University, and of all those who are required to undergo the follow-up work according to the previous year's report. The check-up is conducted

by the Board of Specialists in August-September in the Shri Sayaji General Hospital, Baroda. The results are recorded in a special form maintained for each student and communicated to him on a report card. Cases requiring regular medical attention are separated and referred to the respective specialists for examination and advice. These cases are reported to the Heads of respective institutions to help the students in getting proper treatment and attention. During the year, the Medical check-up was done from the 24th August, to the 24th September, 1960 and in all, 2,980 students—2,404 boys and 576 girls—were examined.

3. Physical Education

(1) Staff :

Physical Education Activities such as A.C.C., Major Games, Athletics, Wrestling, Boxing, Swimming, Boating, Sports and Tournaments were organised and conducted by four Physical Instructors, two Swimming Trainers, and one Boating Trainer under the supervision and guidance of the Director of Physical Education who also acts as the Ex-officio Secretary of the University Board of Sports.

(2) Auxiliary Cadet Corps :

A. C. C. Training is compulsory for all the students excepting those who are selected for Major Games, Swimming, Boating, Athletics, Wrestling, Boxing and N. C. C. In all 1,272 students including 268 girls were imparted training in Drill, P.T., Games, Mass P.T., Road March and Manual Work. Special training was also given to selected cadets in Marching. This training was organised and conducted by 4 Group Commanders, 8 A.C.C. Officers and 92 Student Leaders under the supervision and guidance of the Director of Physical Education. Selected boy and girl Cadets also took part in the Ceremonial Parade held during the N.C.C. and A.C.C. week. A group of forty Girls Cadets were taken to Pawagadh on hike.

(3) Major Games :

Major Games such as Cricket, Hockey, Foot-Ball, Volley Ball, Basketball, Kho-Kho, Tennis, Badminton, Table Tennis, Throwball and Netball were organised and conducted by the Physical Instructors and the Officers-in-Charge of Cricket, Hockey, Tennis, Badminton and Table Tennis. In these activities more than 300 students including girl students from various Faculties and Institutions participated.

(4) *Swimming and Boating:*

During the year, 575 students in Swimming and 179 students in Boating participated. In addition to this 835 guests also took advantage of the Swimming Pool. These two activities were organised and conducted by the Swimming and Boating Trainers under the supervision and guidance of the Officer-in-Charge, 'Swimming' and 'Boating' and the Director of Physical Education. Annual Competitions in Swimming and Boating were also held during the Second term of the year. Dr. Jyotindra M. Mehta, Vice-Chancellor, presided over the prize distribution function and Shrimati Saralaben Mehta gave away the trophies to the winners.

(5) *Annual Sports:*

As a part of the University Youth Festival, Annual Sports were held on the University Sports Grounds on the 13th, 14th, and the 15th December, 1960. Students and members of the staff from various Faculties and Institutions participated in different Track and Field Competitions. Dr. J. M. Mehta, Vice-Chancellor of the University, gave away the prizes and trophies to the winners.

(6) *Winners of Individual Championships:*

Winner	Faculty/Institution	Trophy
ATHLETICS		
1. Shri S. P. Gupta	Faculty of Technology and Engineering	Silver Shield
2. Kumari Manda Ambegaokar	Faculty of Arts	Silver Shield
SWIMMING		
3. Shri A. R. Shetty	Medical College	Smt. Hansa Mehta Shield
4. Kumari Jyotika Shah	Preparatory Unit	Dr. Jivraj N. Mehta Shield
BOATING		
5. (i) Shri V. S. Navade	Faculty of Technology and Engineering	Smt. Hansa Mehta Shield
(ii) Shri A. R. Bhavsar	Faculty of Science	
6. Kumari A. V. Bapat	Faculty of Arts	Dr. Jivraj N. Mehta Shield

TENNIS

7. Shri S. V. Dandekar Faculty of Technology and Engineering Baroda (Open)

BADMINTON

8. Kumari Nila Bhatt Faculty of Home Science Gujarat (Open)

TABLE-TENNIS

9. Kumari P. P. Kale Faculty of Arts Baroda (Open)

(7) *Training of University Teams:*

The University Teams were given training by the Physical Instructors and the Officers-in-Charge of Cricket, Hockey, Tennis, Badminton Table-Tennis and Swimming. Experienced persons were also appointed to impart special training to University Hockey, Basketball, Kho Kho and Boxing Teams.

(8) *Inter-Faculty and Local Tournaments:*

The Inter-Faculty Cricket, Hockey, Tennis, Badminton, and Table-Tennis Tournaments were organised and conducted by the Officers-in-Charge of these games. Students from almost all the Faculties and Institutions participated in the Tournaments. The University Cricket, Hockey, and Volleyball Teams participated in the League and Knock-out tournaments held in Baroda. Zaveri-League Cricket Tournament was won by the University Team.

(9) *Inter-University Tournaments:*

This year the University Teams participated in the Inter-University Swimming, Athletics, Cricket, Tennis, Volleyball, Basketball, Kho-Kho (Men and Women), Badminton (Men & Women), Table-Tennis (Men & Women), Wrestling and Boxing tournaments. The University Kho-Kho team (Men) defeated Poona in the Finals at Indore and won the All India Championship. Our Hockey team defeated Karnatak in the first round but lost to Poona in the Semi-Finals at Dharwar. Our Badminton team (Men) defeated Mysore but lost to Poona in the Second round. In the Boxing tournament held at Ceylon the performance of Shri V. D. Joglekar (IVth Year Architecture) was praiseworthy. He knocked out his opponents from Madras and Ceylon.

(10) *Participation in National Championships :*

(i) Five members of University Cricket team were selected to represent the Baroda Cricket Association in the National Cricket Championship.

(ii) Six members of University Basketball team were selected to represent Gujarat State in the National Basketball Championship held at Jaipur.

(ii) Shri J. W. Ghorpade (Faculty of Arts) was selected as a member of the Combined Universities Cricket Team which played against the Pakistan XI at Poona.

4. **National Cadet Corps**

During the year under report the following N.C.C. Units carried out their usual activities :

1. 3rd Gujarat Battalion N.C.C.
2. 2nd Gujarat Girls Troop N.C.C.
3. 18th Gujarat Engineering Platoon N.C.C.
4. 20th Gujarat Medical Company N.C.C.
5. 9th Gujarat Girls Troop N.C.C.
6. 17th Gujarat Air Squadron N.C.C.
7. 2nd Gujarat Group N.C.C. Rifles
8. 20th Gujarat Signal Section N.C.C.
9. 3rd Gujarat Technical Air Squadron N.C.C.

A report of the activities carried out by each Unit are given below :

(1) *3rd Gujarat Battalion N.C.C.*

The Battalion is a four Company Battalion with strength of 13 Officers and 625 Cadets. The training of the Battalion started from the 22nd June, 1960 and terminated on the 8th February, 1961. A Combined Annual Training Camp of this Battalion, 4th Gujarat Battalion N.C.C., Anand and the 5th Gujarat Battalion N.C.C. was held at Surat from the 22nd December, 1960 to the 4th January, 1961. 599 Cadets and 10 Officers of the Unit attended the Camp. The Battalion won prizes in Line Dressing, Platoon Drill, Best Turn, Foot Ball, Shooting and Guard Mounting Competitions. One N.C.C. Officer and 5 Cadets of the Unit also attended the neighbouring State Camp held at Indore from the 27th December, 1960 to the 7th January, 1961. The Unit took an active part in the N.C.C. Week celebration and organised a Ceremonial Parade and a Flag March on the 4th December, 1960.

The Unit conducted the 'B' and 'C' Certificate examinations on the 28th and the 29th January, 1961. The results are as under :—

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	157	143	91%
2. 'C' Certificate	34	21	61%

An Officers' Training Unit has been started for N.C.C. Cadets with a view to select cadets for Armed Forces and to improve the quality of N.C.C. Cadets who join the Armed Forces Commissioned Rank through the Special Entry. Shri G. G. Parmar, a member of the teaching staff has completed his Pre-Commission training in January, 1961 and has been granted a Commission in N.C.C. Captain N. P. Salvi, a member of the teaching staff represented Gujarat State N.C.C. in the Republic Day Parade on the 26th January, 1961.

(2) *2nd Gujarat Girls Troop N.C.C. :*

The Unit was started in the year 1955 under the name of '5th Bombay Girls Troop N.C.C.'. Due to the bifurcation of the Old Bombay State, it is now re-named as '2nd Gujarat Girls Troop N.C.C.'. It was being administered since its formation by the 6th Bombay Battalion N.C.C. (Now 3rd Gujarat Battalion N.C.C.) for one year; it functioned thereafter independently for a period of three years; it was transferred subsequently under the charge of the 18th Bombay Engineering Platoon N. C. C. (now 18th Gujarat Engineering Platoon, N.C.C.) for six months: and now it is given to the 17th Gujarat Air Squadron N.C.C. Baroda. The Unit has 3 N.C.C. Lady Officers of whom two have proceeded abroad for their further studies. It has the strength of 135 girl cadets. The Unit is accommodated in its own building. Due to the shortage of accommodation, another Unit namely the 9th Gujarat Girls Troop N.C.C. is also accommodated in the same building. The Girl Cadets of the troop are taught various subjects like Morse Reading, Wireless Training, Squad Drill, Signal Training, Map Reading, Sanitation and Hygiene and the First Aid. The Air Wing Girl Cadets learn a few more special subjects namely Airmanship, Meteorology, Aeromodelling, Navigation etc.

The Unit took part in ceremonial Parade, Flag March and the Entertainment Programme organised during the N.C.C. Week Celebration in the first week of December, 1960. The Cadets of the troops actively participated in the Gliding Inauguration Ceremony arranged by the 17th

Gujarat Air Squadron N.C.C. on the 5th January, 1961. The cadets were also taken to Pavagadh and Vasad for the Map Reading Excursion.

The Combined Annual Training Camp was centrally arranged by HQ. No. 15 Circle Cadet Corp., Ahmedabad at Jamnagar from the 24th December, 1960 to the 4th January, 1961. One lady Officer and 110 girl cadets of this Unit attended the Camp. They took part in various Competitions and stood first in 'Line Dressing' and 'Drill' Competitions.

'G' Part I and 'G' Part II: Certificate Examinations were conducted on the 28th and the 29th January, 1961. The results are as under:—

Examination	Number appeared	Number passed	Percentage
1. 'G' Part I	24	13	54.1%
2. 'G' Part II	2	2	100%

Lt. Col. T. R. Jaitly, Circle Commander HQ. No. 15 Circle Cadet Corps, Ahmedabad visited the Unit on the 16th January, 1961.

(3) 18th Gujarat Engineers Platoon, N.C.C.:

The Unit enrolled 60 Cadets and imparted training to them from the 2nd June to the 24th December, 1960. It took active part in the ceremonial parade, Flag March, and entertainment programmes organised during N.C.C. Week Celebration in December, 1960. A Combined Annual Training Camp of Engineer N.C.C. Platoons was held at Kirkee from the 25th December, 1960 to the 7th January, 1961. Capt. N. Roy, Officer, Commanding of this Unit was appointed as Camp Commandant of this Camp. 2 Officers and 52 Cadets of the Unit attended the same.

During Annual Training Camp B and C Certificate examinations were held and the results are as under:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	22	14	63.6%
2. 'C' Certificate	6	6	100%

The undermentioned Officers visited the Unit at Baroda:

1. Lt. Col. T. R. Jaitly, Commander, No. 15 Circle Cadet Corps.
2. Brigadier K. P. Dube, I. A., Commander, 112 Infantry Brigade.
3. Brigadier G. M. Sayeed.

(4) 20th Gujarat Medical Company N.C.C.:

The Unit was started from the 23rd July, 1956 with an authorised strength of one Officer and 60 Cadets. The response from students of Medical College was very poor. Only one student came forward to join

the N.C.C. during 1960. The attendance on parades was also far from satisfactory. 18 Cadets were discharged on account of their long absence from normal parades and Camp. The Government permitted us to enrol girl students in Medical Units upto 1/3rd of the total strength. The training started in July, 1960 and ended by the end of January, 1961. The Annual Training Camp was held jointly with all Medical Companies of Maharashtra and Gujarat States at Deolali from the 25th December, 1960 to the 7th January, 1961. The Unit won the prize for 'Best Company at Drill' in the camp.

'B' and 'C' Certificate examinations were conducted in the Camp and the result is as under:—

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	18	2	11.1%
2. 'C' Certificate	8	7	87.5%

One Cadet of the Unit attended the Advanced Leadership Course at Pahalgam and another participated in the Republic Day Parade 1961 at Delhi. A N.C.C. Rifle Company (Girls)—28th Gujarat N.C.C. Rifles Company (G)—was raised by this Unit in S.N.D.T. College and training in Nursing was imparted to the Cadets. The Unit celebrated the Company Day on the 19th February, 1961 and prizes were distributed by the Dean, Faculty of Medicine.

(5) 9th Gujarat Girls Troop N.C.C.:

This Unit was started in the year 1957 as 22nd Bombay Girls Troop N.C.C. After the bifurcation of the Old Bombay State, the Unit was re-named as 9th Gujarat Girls Troop N.C.C. It was being administered since formation by the 6th Bombay Battalion N.C.C. (Now 3rd Gujarat Battalion N.C.C.) for 2 years and 6 months but now it is given to the 17th Gujarat Air Squadron N.C.C. Since the Unit came in touch with the Air Force, the Flying Training was also introduced to a few selected cadets. There is no separate building for the Unit. At present its office is accommodated in the 2nd Gujarat Girls Troop N.C.C. Office Building.

The Unit has 3 N.C.C. Lady Officers (of which one has proceeded abroad for further studies) and 135 girl cadets. The girl cadets are taught various subjects like Morse Reading, Wireless Training, Signal Training, Map Reading, etc. The Air Wing Girl Cadets are learning few more special subjects namely Airmanship, Meteorology, Aero-modelling, Navigation etc. The Unit took part in Ceremonial Parade, Flag March

and entertainment programmes during N.C.C. Week Celebration in the First week of December, 1960. The cadets also helped the 17th Gujarat Air Squadron N.C.C. in organising the Gliding Inauguration Ceremony on the 15th January, 1961.

Two N.C.C. Lady Officers and 84 Girl Cadets attended the combined Annual Training Camp which was centrally arranged by HQ. No. 15 Circle Cadet Corps, Ahmedabad at Jamnagar from the 24th December, 1960 to the 4th January, 1961. They took part in various competitions organised at the Camp and stood first in P.T. Competition. Only 'G' Part Examination was conducted on the 28th and the 29th January, 1961. 10 cadets appeared and 6 passed, the percentage of passes comes to 60%. One cadet—Kumari Susheela Hirani who was selected for the Republic Day Parade at Delhi on the 26th January, 1961 stood second in India.

Lt. Col. T. R. Jaitly, Circle Commander, HQ. No. 15, Circle Cadet Corps, Ahmedabad visited the unit on the 16th January, 1961.

(6) *17th Gujarat Air Squadron, N.C.C.*

This Unit was raised on the 1st August, 1959 in order to make the students of this University air-minded. This is the 17th Unit of its kind in India since the inception of N.C.C. The Unit's establishment is of 160 Boys and 45 Girls (Air Wing Girls) from Girls Troops.

At present this Unit is housed in the Old Polytechnic building. There is a minimum of two years and maximum of 4 years course conducted. Students undertaking 4 years course are given free flying upto 90 hours per head. In the first year of the training the Boys and Girls learn the following subjects: (a) Organisation and Administration, (b) Drill and Parade, (c) Aerodynamics, (d) Metereology, (e) Air Navigation, (f) Aero Engines, (g) Airframes, (h) Airmanship and Signals, (i) Aircraft Reconnaissance, (j) Air-armament and (k) Making Model Aircrafts. In their second year of training they learn gliding in addition to their theoretical subjects. In their third and fourth years of training only the boys are given powered engine flying in addition to their usual theoretical training. The Girls, however, only continue doing gliding since powered flying has not been included in their syllabus.

One N.C.C. Officer and 15 Cadets of the Unit participated in the Annual Air Wing Camp held at Tambaram near Madras. In the Camp the unique and original design of a Delta Wing model aircraft flown at a speed of 100 mPh. was appreciated by all. This unique model was

named "SUBROTO" after the late Chief of Air Staff, Air Marshal Subroto Mukharjee. The cadets of the Unit were praised for their high standard of leadership and discipline. This Unit's cadets took part in 15th August, 26th January, N.C.C. week celebrations with great enthusiasm. They took part in the Variety programme staged during the week. The cadets also took part in the Gliding Inauguration Ceremony of this Unit on the 15th January, 1961, at Harni Airfield.

Col. Lakshman Singh, Circle Commander No. 1, Circle Cadet Corps and Lt. Col. T. R. Jaitly, Circle Commander No. 15, Cadet Corps visited this Unit during the year. Brigadier G. M. Sayeed, HQ Circle Southern Command, Poona also visited this Unit.

This is the only unit of its kind in the whole of Gujarat State. The standard so far achieved by this Unit in the sphere of N.C.C. training is surely exemplary and the morale of the unit is high.

(7) *2nd Gujarat Group N.C.C. Rifles:*

The Unit was raised with effect from the 25th February, 1960. It was to have 15 Rifle Companies on its establishment. At the time of raising the group, its headquarter were at Ahmedabad but it shifted from Ahmedabad to Baroda on the 3rd December, 1960. Accommodation has been allotted for the Group Headquarters in the Kalabhavan Building. The Group has the following N.C.C. Rifle Companies with the strength as stated against each, in the University:

		Boys	Girls
(i)	16 Gujarat N. C. C. Rifle Company	200	—
(ii)	17 Gujarat N. C. C. Rifle Company	200	—
(iii)	18 Gujarat N. C. C. Rifle Company	200	—
(iv)	19 Gujarat N. C. C. Rifle Company	200	—
(v)	21 Gujarat N. C. C. Rifle Company	200	—
(vi)	23 Gujarat N. C. C. Rifle Company	200	—

(vii)	24 Gujarat N. C. C. Rifle Company	Faculty of Science, Baroda	200	—
(viii)	25 Gujarat N. C. C. Rifle Company	Polytechnic, Baroda	190	—
(ix)	26 Gujarat N. C. C. Rifle Company	Faculty of Technology and Engineering, Baroda	150	—
(x)	29 Gujarat N. C. C. Rifle Company	Faculty of Science, Baroda	—	105
(xi)	30 Gujarat N. C. C. Rifle Company	Faculty of Home Science, Baroda	—	142

Three N.C.C. Rifle Officers attended the pre-Commission Training at Kamptee from the 2nd August, to the 28th September, 1960. Six cadet officers have been also sent to attend the Pre-Commission training with effect from the 30th March, 1961. 13 N.C.C. Rifle Cadets have been selected to attend the Advance Leadership Course and All India Summer Training, Camps to various stations at Simla, Wellington, Kashmir, Mount Abu etc.

(8) 20th Gujarat Signal Section N.C.C.:

The Unit was raised in April, 1960 and started functioning from July 1960. The authorised strength of the Unit is 2 N.C.C. Officers and 10 Cadets. 51 Cadets were enrolled and the first year training was imparted to them. Full training could not be imparted due to deficiencies in Signal Training equipments. The Unit celebrated the N.C.C. Week in December 1960 with the other Units in Station. No annual training camp was held during the year. One cadet is selected for attending the Advance Leadership Course at Kodaikanal from the 10th to the 26th May, 1961 and six cadets to attend the combined Cadre and Social Service Camp at Bhagalpur from the 1st to the 14th May, 1961. The Annual inspection was carried out by the Circle Commander Lt. Col. T. R. Jaitly and the Unit got the remark 'Well Run Unit'.

(9) 3rd Gujarat Technical Air Squadron N. C. C.

The Unit was raised in July, 1960. It is accommodated at present in two rooms in the building of the 18th Engineering Platoon N. C. The Unit recruited 28 Cadets from the Faculty of Technology and Engineering and the Polytechnic. It has 2 N. C. C. Officers. The training for the first year course has been completed successfully. The certificate examina-

tions will be held next year. Since the Unit is newly formed, it could not send its cadets to the Annual Training Camp held at Tambaram from the 24th December, 1960 to the 9th January, 1961. Only one N.C.C. Officer from the Unit attended the camp.

Cadets of the Unit took part in the N.C.C. Week Celebrations held from the 4th to the 11th December, 1960. Two cadets were sent to take part in the Republic Day Parade held on the 26th January, 1961, at New Delhi.

5. Students' Common Hall

The University has two Common Rooms on the campus—one for men students and the other for women students. Cafeterias are also attached to both the rooms. The common rooms provide facilities for indoor games such as Carrom, Draughts, Chess, Table Tennis, etc. Reading materials like daily newspapers, periodicals, and a small collection of books are also provided in the rooms. Committees consisting of the members of the teaching staff look after the arrangements of the rooms. The rooms are also used for the meetings of different students' associations, social functions, lectures, indoor games and tournaments.

Hobby Workshop

The University Grants Commission gave a grant of Rs. 25,000/- for building, Rs. 25,000/- for equipment, furniture, etc. and Rs. 5,000/- for staff and maintenance of the Hobby Workshop. The University constructed a new building at a cost of Rs. 27,000/- on the South East Corner of the General Education building. Some equipment was also purchased and necessary staff appointed for providing to the students instruction in different hobbies viz., (1) Music (Vocal and Instrumental), (2) Carpentry, (3) Clay Modelling and (4) Assembling Electrical and Electronic appliances. Photography (as a hobby) could not be started during the year. Students showed considerable interest in different hobbies. 30 men students and 10 women students were registered during the year.