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M. S. University of Baroda

Thirteenth

Annual Report

1961-62

The Maharaja Sayajirao University of Baroda

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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

THIRTEENTH ANNUAL REPORT, 1961-62

(1st April, 1961 to 31st March, 1962)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

THIRTEENTH ANNUAL REPORT, 1961-62

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. The Baroda University Commission of 1925 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 programme, library movement as a University extension movement and compulsory medical examination. Although circumstances at that time were not favourable to the establishment of a separate University but the idea was not given up and the following institutions of higher education came to be established in Baroda during the 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 to consider the

question of early establishment of the University. 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 power to affiliate 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 at Baroda and to affiliate to it the Colleges at Visnagar, Petlad and Navsari which were situated in the State of Baroda. On account of 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 Government of Bombay:
7. The Baroda Medical College

(c) Constituent recognised Institutions managed by the Government of Bombay:
8. The Baroda Museum and Picture Gallery
9. The Baroda Sanskrit Mahavidyalaya

By June, 1950 the institutions which were 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 admission, examination, etc. in the old Faculties during the academic years 1949-50 and 1950-51. During this period, new courses and standards of admission and examination were prescribed and were introduced 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 arrangements were made for the starting of new departments and courses, provision of adequate staff, improvement of old buildings and provision of new buildings and the sanctioning of the necessary grants for library, equipment and contingent expenditure. A new institution called the Polytechnic conducting 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 conducting Preparatory Courses in Arts, Science and Commerce was started. The Faculty of Law was started during the year under report. The developments during the preceding years are described in the twelve annual reports published so far. This thirteenth Annual Report covers the period from the 1st April, 1961 to the 31st March, 1962 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 and a certificate course in the German language.

(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 to under-graduate diplomas in (i) Teaching and (ii) Early Childhood Education. 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) Bank-

ing and (ii) Co-operation, the under-graduate diploma in Co-operation and guidance in research for the Ph.D. degree.

(5) (a) Faculty of Medicine (The Baroda 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.D. and O., D.M.R. and E., D.Ped., D.V. and 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 (i) Turners and Fitters, (ii) Dyeing and (iii) Weaving and guidance in research for the Ph.D. degree in Textile Chemistry.

(b) Polytechnic : Provides courses leading to 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, the post-graduate diploma course in Museology, the diploma course 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 advanced 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 Kindergarten class is also attached to the Faculty for experiments and observation in Child Development.

(9) Faculty of Social Work: Provides a post-graduate course leading to the degree of M.S.W.

(10) Faculty of Law:—Provides courses leading to the degree of Bachelor of Law (LL.B.).

(11) Preparatory Unit: Provides courses leading to the Preparatory examinations in Arts, Science and Commerce.

(12) 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 1961-62

Institutions	*Post-graduate courses		Degree courses		Diploma courses		Total		Grand Total 1961-62	Grand Total 1960-61	Grand Total 1959-60
	Men	Women	Men	Women	Men	Women	Men	Women			
1	2	3	4	5	6	7	8	9	10	11	12
1 Faculty of Arts	156	66	547	359	—	—	703	425	1128	1044	1129
2 Faculty of Science	205	26	409	82	—	—	614	108	722	675	657
3 Faculty of Education and Psychology	89	24	88	75	25	20	202	119	321	321	329
4 Faculty of Commerce ..	80	2	1036	22	+ 1	—	1117	24	1141	980	937
5 Faculty of Medicine	89	16	236	58	—	—	325	74	399	367	389
6 Faculty of Technology and Engineering	28	—	1498	22	278	—	1804	22	1826	1715	1609
7 Faculty of Fine Arts ..	19	1	73	21	@ 62	@ 7	154	29	183	169	148
8 Faculty of Home Science ..	—	35	—	397	—	—	—	432	432	336	307
9 Faculty of Social Work ..	55	22	—	—	—	—	55	22	77	76	62
10 Faculty of Law	—	—	270	14	—	—	270	14	284	—	—
11 Preparatory Unit	—	—	1169	279	—	—	1169	279	1448	1341	1270
12 College of Indian Music, Dance and Dramatics	2	2	27	23	—	—	29	25	54	42	36
13 Baroda Sanskrit Maha-vidyalaya	2	—	13	1	23	2	38	3	41	32	34
14 Polytechnic	—	—	—	—	913	5	913	5	918	916	819
Total: ..	725	194	5366	1353	1302	34	7393	1581	8974	8014	7726

* *Includes Ph.D. and Master's Degree and Post-graduate Diploma Students.*

\+ *Excludes 17 students of S.Y. B.Com. joining the Diploma in Co-operation course.*

@ *Includes Post-Diploma students also.*

Statement showing non-University students at the commencement of the year 1961-62

Institutions	Men	Women	Grand Total 1961-62	Grand Total 1960-61	Grand Total 1959-60
(a) Diploma Courses:					
1. College of Indian Music, Dance and Dramatics	273	180	453	424	326
(b) Certificate Courses:					
1. Faculty of Arts	* 18	* 6	* 24	—	—
2. Faculty of Technology and Engineering	81	—	81	210	191
3. Faculty of Fine Arts	10	3	13	20	18
4. Baroda Sanskrit Mahavidyalaya	38	7	45	38	44
(c) S. S. C. Course:					
1. University Experimental School	246	184	430	423	398
(d) Nursery Courses:					
1. Chetan Balwadi	31	29	60	60	60
2. Kindergarten	12	13	25	25	25
Total:	709	422	1131	1200	1062

* Excludes 1 Man and 1 Woman students of the Degree Course joining the Certificate Course.

3. Special Features of the Year

(1) Important Research Schemes:

Several Departments of the University were engaged in research work. 143 students registered for the Ph.D. degree in previous years and 47 fresh students registered this year and several teachers carried on research work.

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

Faculty/ Department	*Research Scheme*	*Name of the Financing Body*
FACULTY OF ARTS		
Hindi	Exploration of Hindi Literary Wealth of Gujarat	University Grants Commission, State Government and the University
Sociology	Functional and Dysfunctional Aspects of the working of the Community Development Project in Gujarat	Government of India through the Central Institute of Studies and Research in Community Development
Agricultural Economics	Community Development Project and Economic Change	Ministry of Community Development and Cooperation, Government of India
Economics	Socio-Economic Survey of Saraswani Village	State Government
FACULTY OF SCIENCE		
Bio-Chemistry	(i) Microbiological Synthesis of Fat	Government of Gujarat
	(ii) Mechanism of Calcification with special regard to the role of Vitamin D and Citrate	Indian Council of Medical Research
	(iii) Study of C_4 Metabolism in Moulds and Plants	Council of Scientific and Industrial Research
Chemistry	(i) Studies in Liquid Crystals; Effects of Structure on Liquid Crystal State	Council of Scientific and Industrial Research
	(ii) Recovery and Separation of Alkaloids by Ion Exchange Compounds	Government of Gujarat

Faculty/ Department		*Research Scheme*	*Name of the Financing Body*
Physics	(i)	Optical Studies of Etched Surfaces of Metal Alloy Crystals	Council of Scientific and Industrial Research
	(ii)	Optical and Related Properties of the Luminescent Materials	Council of Scientific and Industrial Research
FACULTY OF EDUCATION AND PSYCHOLOGY			
Education		Vocational and Educational Guidance	Ministry of Education, Government of India
Psychology		Home Conditions and Juvenile Delinquency	University Grants Commission
FACULTY OF COMMERCE			
Commerce		A Study of Management Pattern of Co-operatives in Community Development area of Baroda District	Central Institute of Study and Research in Community Development, Mussoorie
FACULTY OF TECHNOLOGY AND ENGINEERING			
Civil		Public Health Engineering Bio-chemical and Technological Studies on Sewage Disposal	University Grants Commission
FACULTY OF SOCIAL WORK			
Social Work	(i)	Problems of Working Mothers in Baroda City	University Grants Commission
	(ii)	A Study of the reactions of persons who have undergone surgery as a method of Family Planning	Ministry of Health, Government of India

(B) The following Research Schemes financed by the University were in progress :

Faculty/Department		*Research Scheme*
FACULTY OF ARTS		
Economics		Consumers' Finance Survey of Baroda City
Sanskrit		A Fresh Interpretation and Translation of Ṛgveda with special reference to Book IX *i.e.* Soma Mandala
Political Science		Parties, Factions and Internal Groups in Indian Politics
FACULTY OF SCIENCE		
Biochemistry	(i)	Effect of Protein Malnutrition on Mental Development
	(ii)	Effect of Aging on Brain Metabolism
	(iii)	Biosynthesis of Carotenoids

Faculty/Department		*Research Scheme*
Botany	(i)	Studies on Isolation of suitable algae required for sewage purification
	(ii)	Effect of Growth Promoting Substances on Plants
Chemistry	(i)	Synthesis and Study of Ion Exchange Compounds
	(ii)	Mesomorphism and Chemical Constitution
	(iii)	Metal Chelates of Oximes
Geography		Transport and the Rise of Towns in Gujarat
Mathematics		Study of Problems in Theory of Trigonometric Series
Statistics	(i)	Statistical Summary of Medical Inspection Reports 1960-61
	(ii)	Wastage and Stagnation in Universities
Zoology	(i)	Histophysiological Study of the Diaphoragon
	(ii)	Histophysiological Studies on Muscle Differentiation
	(iii)	Histophysiological Studies on Tests with special reference to fat metabolism
FACULTY OF EDUCATION AND PSYCHOLOGY		
Education		Experimental Longitudinal Studies of Children
Educational Administration		A Survey and Evaluation of the Administration of School Systems in India

Faculty/Department	*Research Scheme*
FACULTY OF TECHNOLOGY AND ENGINEERING	
Applied Mechanics	Swelling Pressure in Expansive Soils
Civil Engineering	Study of Properties of Road Stone Aggregates of Gujarat Area
Mechanical Engineering	Investigation of Factors of Stress Concentration in bars with sharp and Fillets in Tension Photo Elastically
Geology	Structural Investigation of High Grade Metamorphic Rocks
FACULTY OF SOCIAL WORK	
Mental Hygiene & Psychiatric Clinic	A Study of the Mental Illness as reflected in the cases closed between July, 1958 and March, 1960

(2) Important Events

(i) The following new courses were started in the University during the academic year 1961-62 :

(a) Ph.D. in Geology.

(b) M.E. in Soil Mechanics.

(c) M.Sc. (Home) in Clothing and Textiles.

(d) M.Sc. (Home) in Home Science Education and Extension.
(e) LL.B.
(f) Diploma in Early Childhood Education
(j) Certificate in German Language.

(ii) The Commonwealth Technical Training Week was celebrated from the 17th to the 23rd September, 1961 under the auspices of the Faculty of Technology and Engineering and the Federation of Gujarat Mills and Industries.

(iii) Shri Ran Dhir Subba, Vice-Chancellor, Tribhuvan University, Nepal visited the various Faculties, Institutions and the University Office on the 26th and the 27th September, 1961.

(iv) Shri Chhatrapati Shivaji University Committee appointed by the Government of Maharashtra, to report on the form, scope and jurisdiction of a University proposed to be established in Southern Maharashtra, visited the University and went round its various Faculties and Institutions on the 13th and the 14th October, 1961.

(v) The Eleventh Annual Convocation was held on the 21st October, 1961. Nawab Shri Mehdi Nawaz Jung, Governor of Gujarat, 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)	4	1	5
2	Ph.D. (Science)	5	4	9
3	Ph.D. (Edu. & Psy.)	1	1	2
4	M.D.	—	1	1
5	M.A.	36	22	58
6	Acharya	3	—	3
7	B.A.	179	59	238
8	Shastri	1	—	1
9	Dip. in Library Science	8	5	13
10	M.Sc.	31	20	51
11	B.Sc.	91	21	112
12	M.Ed. (by thesis)	1	1	2
13	M.Ed. (by papers)	3	10	13

Nawab Mehdi Nawaz Jung delivering the Convocation Address

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
14	B.Ed.	37	73	110
15	Dip. in Guidance and Counselling	3	—	3
16	Dip. in Educational Administration	1	1	2
17	Dip. in Applied Linguistics	1	4	5
18	M.Com.	8	3	11
19	B.Com.	135	48	183
20	Dip. in Banking	4	2	6
21	M.B.,B.S.	32	9	41
22	D.L. & O.	2	—	2
23	D.V. & D.	—	1	1
24	D.G.O.	1	—	1
25	M.E.	5	1	6
26	B.E.	124	73	197
27	B.Text. (Engg.)	13	9	22
28	B.Text. (Tech.)	2	—	2
29	M.A. (Fine)	—	4	4
30	M.Mus.	1	1	2
31	B.A. (Fine)	3	4	7
32	B.Mus.	5	1	6
33	B.Arch.	8	20	28
34	Diploma in Museology	1	3	4
35	M.Sc. (Home)	2	1	3
36	B.Sc. (Home)	28	13	41
37	Dip. in Nursery School Education	1	1	2
38	M.S.W.	15	11	26
	Total :	795	428	1223

(vi) Dr. K. G. Naik Gold Medal was awarded to Dr. R. C. Shah, Deputy Director, National Chemical Laboratory, Poona, a Scientific Research Worker in India, in the field of Chemistry, whose contributions to the published research have been adjudged to be of the highest distinction for application in developing Indian Industries during the last five years.

(vii) The University Youth Festival (Twelfth University Week) was inaugurated by Justice Shri K. T. Desai, Chief Justice of the Gujarat State, on the 10th December, 1961.

(viii) Essay and Debating Competitions on the subjects of Panchayati Raj and Co-operation sponsored by the Government of India were arranged in the month of December, 1961. Two students were sent to Delhi to participate in the All India Debate organised by the Government of India.

(ix) The 23rd Annual Conference of the Association of Surgeons of India and the 13th Annual Conference of the Indian Society of Anaesthetists and the 2nd Annual Conference of the Indian Association for the Advancement of Medical Education were held on the 27th, 28th, 29th and the 30th December, 1961, under the auspices of the Medical College, Baroda. Dr. A. L. Mudaliar, Vice-Chancellor of Madras University inaugurated the Conference and Dr. Jyotindra M. Mehta, Vice-Chancellor welcomed the delegates.

(x) The University established the Tagore Chair in the Humanities with a fund of Rs. 4,00,000 in the year 1960-61. The Tagore Centenary was also celebrated with a number of programmes during the year.

(a) Tagore's play 'Red Orleanders' was staged by the members of the Shakespeare Society on the 31st July and 1st August, 1961.

(b) Tagore's dance play 'Natir Puja' adapted in Gujarati was staged on the 21st and the 22nd October, 1961, by the College of Indian Music, Dance and Dramatics.

(c) An exhibition of Tagore's Paintings and Books was arranged by the Faculty of Fine Arts from the 20th November to the 2nd December, 1961.

(d) Essay Competition inviting essays on different aspects of Tagore's life and work was organized.

(e) The Faculty of Fine Arts staged Tagore's play 'The King of the Dark Chamber' on the 21st January, 1962.

(xi) Sir Miles Clifford, Director of the Leverhulme Trust Fund, London, and Lady Clifford visited the Faculties of Arts, Science, Education and Psychology, Fine Arts, Home Science and Social Work, Oriental Institute, Shrimati Hansa Mehta Library, Department of Museology and the Baroda Museum and Picture Gallery on the 9th February, 1962.

(xii) Shri V. T. Krishnamachari, Ex-Deputy Chairman, Planning Commission, Government of India, visited the Faculties of Arts, Science, Education and Psychology, Commerce, Fine Arts and Home Science, Oriental Institution, Shrimati Hansa Mehta Library and the Shri V. T. Krishnamachari Institute of Rural Development at Samiala on the 5th and the 6th March, 1962.

(xiii) Supplementary Convocation for conferring degrees and diplomas was held in the Central Hall, Faculty of Arts, on the 25th March, 1962. Dr. Jyotindra M. Mehta, Vice-Chancellor, presided over the Convocation.

The following degrees and diplomas were conferred on that day :

Sr. No.	*Degree/Diploma*	*In Person*	*In Absentia*	*Total*
1.	Ph.D. (Arts)	—	4	4
2.	Ph.D. (Science)	3	—	3
3.	M.D.	2	1	3
4.	M.S.	1	1	2
5.	B.A.	18	8	26
6.	B.Sc.	9	8	17
7.	B.Com.	11	17	28
8.	Dip. in Co-operation	1	2	3
9.	M.Sc. (Medicine)	—	2	2
10.	M.B.,B.S.	17	8	25
11.	D.A.	—	2	2
12.	D.L.& O.	1	1	2
13.	D.V. & D.	1	1	2
14.	D.C.P.	1	—	1
15.	D.G.O.	1	2	3
16.	M.E.	—	2	2
17.	B.E.	9	24	33
18.	B.Text. (Tech,)	2	1	3
19.	B.Arch.	1	4	5
20.	M.Sc. (Home)	—	1	1
21.	B.Sc. (Home)	6	2	8
22.	M.S.W.	1	4	5
	Total :	85	95	180

(xiv) The Visiting Committees appointed by the University Grants Commission visited the various Faculties and Institutions on the 26th and the 27th March, 1962 in connection with the development schemes in the Humanities and the Sciences during the Third Five Year Plan.

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 : Shri E. L. Rodrigues, Dr. A. N. Jani, Shri R. F. Kothari and Dr. J. C. Sandesara

Lecturers : Dr. (Kumari) S. H. Trivedi, Shri S. R. Patel, Kumari S. J. Shahani, Dr. T. N. Valunjkar and Kumari S. G. Munshi

FACULTY OF SCIENCE

Professor : Professor N. S. Pandya

Lecturers : Kumari D. K. Patwa and Shri H. R. Chokshi

FACULTY OF EDUCATION AND PSYCHOLOGY

Professor : Professor M. S. Patel

Readers : Shri D. G. Apte and Dr. (Shrimati) P. Phatak

FACULTY OF COMMERCE

Reader : Shrimati D. P. Pandit

Lecturers : Sarvashri K. N. Reddy, K. R. Shah, C. S. Rathod, D. J. Mehta, R. R. Waghmare and V. K. Yagnik

FACULTY OF TECHNOLOGY AND ENGINEERING

Professors : Professor N. Y. Hiryur and Professor P. R. Batni

Readers : Sarvashri S. K. Damle, N. J. Dave, R. M. Dave, R. C. Patel and R. J. Mistry, Dr. S. J. Shah and Dr. K. S. Shah

Lecturers : Sarvashri M. H. Vasavada, K. T. Desai, C B.. Patel, B. J. Bansal, K. R. Kirtane, S. M. Shah and R. C. Desai

FACULTY OF FINE ARTS

Lecturers : Sarvashri G. C. Bhatt and V. D. Vyas

FACULTY OF HOME SCIENCE

Lecturers : Kumari Nalini Badlani and Shrimati Saramma Thomas

(2) *Appointments to new teaching posts* :

The following appointments were made during the year on the new posts sanctioned from the 1st April, 1961 or thereafter :

FACULTY OF EDUCATION AND PSYCHOLOGY

Professor : Professor L. J. Bhatt

FACULTY OF FINE ARTS

Lecturer : Shri G. T. Sheikh

FACULTY OF HOME SCIENCE

Lecturer : Shrimati Kusum Pandya

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

The following teachers left the University during the year :

FACULTY OF ARTS

Professor : Professor C. M. Shukla

Reader : Shri H. C. Malkani

Lecturers : Dr. B. V. Shah, Sarvashri A. M. Shah and K. R. Unni

FACULTY OF SCIENCE

Lecturer : Dr. C. G. Khatri

FACULTY OF COMMERCE

Reader : Dr. K. S. Venkataramana

Lecturers : Sarvashri H. M. Gandhi and R. B. Pandit

FACULTY OF TECHNOLOGY AND ENGINEERING

Lecturers : Sarvashri S. S. Pakvasa, P. C. Shah and P. R. Bhave

FACULTY OF FINE ARTS

Reader : Shri J. D. Patel

FACULTY OF HOME SCIENCE

Lecturers : Shrimati Amar Patel, Kumari Rupa Mehta and Kumari Kumud Shah

(4) A statement showing the number of teaching staff in various faculties and institutions is given below :

Faculty/Institute	*Professors*	*Readers*	*Lecturers*	*Tutors, Demonstrators*	*Honorary Part-time and others*	*Total*
Arts	9	18	46	16	4	93
Science	7	10	41	47	—	105
Education and Psychology	3	6	15	3	1	28
Commerce	1	6	13	—	6	26
Technology and Engineering	12	16	54	52	4	138
Fine Arts	2	4	15	3	2	26
Home Science	1	2	14	12	3	32
Social Work	2	1	11	—	1	15
Law	—	2	2	—	3	7
Oriental Institute	—	1	4	—	—	5
College of Indian Music, Dance and Dramatics	1	2	10	4	25	42
Baroda Sanskrit Mahavidyalaya	—	—	1	12	—	13
Polytechnic	3	1	16	38	—	58
Total :	41	69	242	187	49	588

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 A. M. Shah, Lecturer in Sociology	Due leave and leave without pay	Advanced study in Behavioral Sciences at Stanford and the Department of Anthropology, University of Chicago
2	Shri S. M. Divekar, Lecturer in Education	Due leave and leave without pay	Higher Training in Educational Administration in U.S.A. under T.C.M. Programme

S. No.	*Name and Designation*	*Type of facility*	*Qualifications or experience acquired*
3	Dr. H. H. Majmundar, Lecturer in Geology	Due leave and leave without pay	D.Sc. Navey, France
4	Shri A. D. Pandya, Lecturer in Mechanical Engineering	Due leave and leave without pay	Post-graduate study and research in Machine Tool Design in U.S.S.R.
5	Shri M. M. Pathan, Demonstrator in Tele-Communication	Due leave and leave without pay	M.S. (E.E.) Wisconsin, U.S.A.
6	Shri B. N. Pancholy, Reader in Applied Arts	Due leave and leave without pay	Completed the study tour of the U.K., U.S.A. and the continent
7	Kumari I. M. Patel, Lecturer in Social Work	Due leave and leave without pay	M.S.S., Adelphi College, New York
8	Smt. Shashikala Shinde, Demonstrator in Home Science	Due leave and leave without pay	M.S. in Home Science from the Iowa State University, U.S.A.
9	Kumari Freny Deboo, Demonstrator in Home Science	Due leave and leave without pay	M.S. in Home Science from the Iowa State University, U.S.A.
10	Kumari Jyoti Desai, Demonstrator in Home Science	Due leave and leave without pay	M.S. in Home Science from the Iowa State University, U.S.A.
11	Kumari Savitri Pandit, Lecturer in Home Science	Due leave and leave without pay	M.S. in Home Science from the Oregon State University, U.S.A.
12	Shri L. M. Padhya, Sectional Library Superintendent	Due leave and leave without pay	Ph.D. (Major-Educational Administration and Minor-Library Science) Wisconsin University, U.S.A.

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

S. No.	*Name and Designation*	*Type of facility*	*Nature of Studies*
1	Shri B. P. Lulla, Lecturer in Education	Due leave and leave without pay	Doctorate Degree in Educational Administration at the State Teachers Training College Emporia, Kansas, U. S. A.
2	Shri H. J. X. Fernandes, Lecturer in Education	Due leave and leave without pay	Advanced studies in Psychometric and Educational Psychology at the Michigan University, U.S.A.

S. No.	Name and Designation	Type of facilities	Nature of Studies
3	Shri M. K. S. Moorthy, Lecturer in Electrical Engineering	Due leave and leave without pay	M.S. (E.E.) at the University of Tennessa
4	Shri M. R. Panchal, Lecturer in Electrical Engineering	Due leave and leave without pay	D.Sc. (Taulouse) M.S. F.E. (Paris)
5	Shri R. K. Parimoo, Lecturer in Art History	Due leave and leave without pay	Further studies in Art History at the Courtauld Institute of Arts, London
6	Kumari Kalindi C. Patel, Lecturer in Home Science	Due leave and leave without pay	Post-graduate studies in Home Science at the Iowa State University, U.S.A.
7	Kumari Dhruti D. Chhaya, Demonstrator in Home Science	Due leave and leave without pay	Post-graduate studies in Home Science at the Iowa State University, U.S.A.
8	Shrimati I. S. Tayal, Professor of Social Work	Due leave and leave without pay	Ph.D. in Social Work at the University of Pennsylvania, Philadelphia, U.S.A.

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

S. No.	Name and Designation	Type of facility	Nature of Studies
1	Shri R. Krishnamurti, Lecturer in History	Due leave and leave without pay	Research in American History and also Lecturing work in Yale University, U.S A.
2	Shri M. G. Krishnamurti, Lecturer in English	Due leave and leave without pay	Further studies in English at the Wisconsin University, U.S.A. under Smith Mundit Scholarship
3	Shri R. N. Mehta, Reader in English	Due leave and leave without pay	Further studies in English at Columbia University under Smith Mundit Scholarship
4	Shri A. C. Patel, Lecturer in Archaeology	Due leave and leave without pay	Ph.D. degree in Environmental Archaeology at the London University
5	Professor A. H. Somjee, Professor in Political Science	Due leave and leave without pay	To deliver lectures and hold seminars at the London School of Economics

S. No.	Name and Designation	Type of facility	Nature of Studies
6	Smt. Geeta Somjee, Tutor in Political Science	Due leave and leave without pay	Further Post-graduate Studies under Research Fee at the London School of Economics
7	Dr. S. C. Misra, Reader in History	Due leave and leave without pay	Research in Indian History at the Oxford University
8	Shri A. R. Mehta, Lecturer in Botany	Due leave and leave without pay	Ph.D. at the University College of Swensea, U.K.
9	Dr. V. V. Modi, Reader in Biochemistry	Due leave and leave without pay	Research work in Biochemistry at the University of Illinois, U.S.A.
10	Professor J. C. George, Professor of Zoology	Due leave and leave without pay	Research Associateship in Zoo Physiology at Washington State University
11	Shri R. M. Naik, Lecturer in Zoology	Due leave and leave without pay	Training in advanced Ornithology at Michigan State University, U.S.A. under Smith Mundit and Fulbright Scholarships
12	Shri S. M. Divekar, Lecturer in Education	Due leave and leave without pay	Tour for study in Educational Administration in U.S.A. (Returned during the year)
13	Kumari Santosh Juneja, Tutor in Psychology	Due leave and leave without pay	M. S. in Psychology in U.S.A. under Scholarship offered by the Institute of International Education, New York
14	Kumari Pramila Harry, Tutor in Education	Due leave and leave without pay	Advanced studies in Applied Linguistics at the University of Edinburgh
15	Shri P. M. Majumdar, Lecturer in Economics	Due leave and leave without pay	Ph.D degree in Economics on Industrial Relations at the Gujarat University, Ahmedabad
16	Shri C. C. Shah, Reader in Mathematics	Due leave and leave without pay	Advanced studies in Mathematics at the Wisconsin University, U.S.A.
17	Shri N. T. Sheth, Lecturer in Mathematics	Due leave and leave without pay	Ph.D. degree in Mathematics in Rice University, U.S.A.
18	Shri N. A. Shah, Professor of Civil Engineering	Due leave and leave without pay	Further studies at Wisconsin University, U.S.A. under the award of the T.C.M. Scholarship

S. No.	Name and Designation	Type of facility	Nature of studies
19	Shri S. S. Warty, Lecturer in Textile Chemistry	Due leave and leave without pay	Advanced studies in Textile Chemistry at the Lowell Technological Institute, Massachusetts, U.S.A. under the T.C.M. Scholarship
20	Shri S. D. Desai, Lecturer in Geology	Due leave and leave without pay	Advanced studies in Mineral Technology at the Imperial College, London
21	Shri K. B. Kapadia, Reader in Sculpture	Due leave and leave without pay	Study tour to Europe to acquaint himself with the teaching methods and technics as applied to Arts and Sculpture
22	Shri J. M. Bhatt, Lecturer in Painting	Due leave and leave without pay	Advanced studies in Painting and Fine Arts at Napoli, Italy under the Italian Government Scholarship
23	Shri V. H. Bedekar, Lecturer in Museology	Due leave and leave without pay	Advanced studies in Museum Techniques at the Zoological Museum of Amsterdam
24	Kumari Pushpa Dalal, Demonstrator in Home Science	Due leave and leave without pay	M. S. degree in Foods and Nutrition under International Scholarship
25	Smt. Ansuya Krishnamurthy, Teacher in Chetan Balwadi	Due leave and leave without pay	Further studies in Nursery School Education at the Yale University, U.S.A.
26	Shri S. K. Majmundar, Lecturer in Social Work	Due leave and leave without pay	M. S. degree at the New York School of Social Work, Columbia University, U.S.A.
27	Kumari Jayabala Patel, Lecturer in Social Work	Due leave and leave without pay	Master degree in Social Work in Wayne State University, U.S.A.
28	Dr. U. P. Shah, Deputy Director, Oriental Institute	Due leave and leave without pay	Research and Advanced study at the Graduate School of Arts, University of Pennsylvania, Philadelphia, U. S. A. under Fulbright Travel Grant and Smith Mundit Maintenance Grant

6. University Examination Results

During the period from the 1st April, 1961 to the 31st March, 1962, 24 candidates were declared qualified for the award of the Ph.D. degree. The details are as under :

	Name of the Candidate	Subject	Title of the Thesis
1	Shri Madhav Govind Dabhade	Marathi	A Critical Survey of Autobiographies in Modern Marathi Literatures
2	Shri Somabhai Dhulabhai Parekh	Gujarati	A Critical Edition of Panchadanda in Varata of unknown Gujarati Prose-Writer (before 1682 A.D.)
3	Shri Ram Chandra Gupta	Political Science	Conceptions of Individual and Authority in the Political Ideas of Harold J. Laski
4	Kumari Nileshwari Yadukant Desai	Sanskrit	Ancient Indian Society, Religion and Mythology as depicted in the Markandeya Purana (Critical Study)
5	Shri Arunchandra Devshanker Shastri	Sanskrit	Purshottamji—A Study
6	Shri Dhirajlal Purshottam Patel	Sanskrit	A Critical Appreciation of Soddhala's Udaya Sundarikatha
7	Kumari K. Gnanambal	Sociology	Religion of Three Travancore Tribes
8	Shri K. Raman Unni	Sociology	Caste in Malabar
9	Shri Bhaskar Gopalji Desai	Sociology	Social Background of High School Students in Baroda District
10	Shri Keshavlal Ambalal Thakkar	Philosophy	Mysticism in Gujarat
11	Shri Sadashiv Shamrao Lele	Organic Chemistry	Studies in Coumarins
12	Shri Ravindra Prabhudas Patel	Organic Chemistry	Studies on Synthetic Tuberculostats
13	Shri Nathalal Himatlal Shah	Organic Chemistry	Studies in the Hydroxyanthracene Series
14	Shri Melabhai Gulabbhai Patel	Organic Chemistry	Studies in Coumarins

	Name of the Candidate	*Subject*	*Title of Thesis*
15	Shri Manubhai Vrajlal Patel	Organic Chemistry	Studies in Chromones and Flavones
16	Shri Jayanarayana Mangaliprasad Lohar	Physical Chemistry	Mixed Liquid Crystals: The Effect of structure on the Transition Temperatures
17	Shri Janardan Rameshchandra Pandya	Physics	Optical studies of Growth and Etch Features on Crystal Surfaces
18	Shri Harnivas Sanatkumar Desai	Physics	Heat Transfer by free and forced convection
19	Shri P. Thomas Iype	Zoology	A Hystophysiological and Biochemical Study of the Pectoralis Muscle of the Pigeon and a few representative types of birds with special reference to Lipase and certain Oxidative Enzymes
20	Shri Chunilal Laxmichandji Talesara	Zoology	A Hystophysiological study of the Insect Flying Muscle
21	Shri Bhaktan N. M. Govardhan	Zoology	On certain Aspects of the Physiology of Insects Muscle
22	Shri Sharad Dattatraya Pishvikar	Zoology	A study of Phosphates, Phosphates and certain Inorganic Ions in the Pectoralis Muscle of some Birds with special reference to that of the Pigeon
23	Shri Mulchand Mohanlal Shah	Experimental Education	Construction and Standardisation of an Aptitude Test for Secondary School Teachers
24	Shri Harkant Dhirajlal Badami	Psychology	A Psychological Study of Factors of Juvenile Delinquency

The following two statements show the results of (i) March-April-May-June, 1961 and (ii) October-November-December, 1961 examinations:

Results of the University Examinations March/April/May/June, 1961

Sr. No.	Examination	No. Registered	No. Absent	No. appeared			Number Passed															Grand Total		Percentage of passes
							Men						Women											
				Men	Women	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	Total							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Prep. Arts	529	2	291	236	527	—	3	38	92	133	—	18	54	71	143	276	52.37
2	First Year B.A.	364	7	219	138	357	—	1	36	60	97	—	7	42	44	93	190	53.22
3	*Second Year B.A.	345	3	203	139	342	—	—	—	149	149	—	—	—	116	116	265	77.48
4	B.A. (Final Year)	281	6	184	91	275	—	8	35	107	150	1	8	31	47	87	237	86.18
5	M.A.	79	7	50	22	72	—	5	16	19	40	—	3	6	9	18	58	80.55
6	Acharya	3	—	3	—	3	—	1	1	1	3	—	—	—	—	—	3	100
7	Shastri	2	—	2	—	2	—	—	1	—	1	—	—	—	—	—	1	50.00
8	Visharada	3	—	3	—	3	—	—	1	2	3	—	—	—	—	—	3	100
9	Dip. in Lib. Sc.	13	—	8	5	13	—	—	4	4	8	—	1	3	1	5	13	100
10	Prep. Science	519	5	463	51	514	—	128	189	58	375	—	7	20	14	41	416	80.93
11	Pre-medical	61	—	51	10	61	—	9	26	9	44	—	4	3	3	10	54	88.53

* No class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
12	First Year B.Sc.	160	2	137	21	158	—	5	18	27	50	—	1	8	3	12	62	40
13	*Second Year B.Sc.	170	7	140	23	163	—	—	—	60	60	—	—	—	18	18	78	47.85
14	B.Sc. (Final Year)	166	2	150	14	164	13	17	44	31	105	1	1	6	4	12	117	71.34
15	M.Sc.	72	6	60	6	66	2	4	25	14	45	—	3	2	1	6	51	77.27
16	B.Ed.	114	—	68	46	114	1	7	28	31	67	—	4	18	21	43	110	96.49
17	*T.D.	40	—	30	10	40	—	—	—	29	29	—	—	—	9	9	38	95.0
18	M.Ed.	18	1	14	3	17	—	2	1	7	10	—	—	1	2	3	13	76.47
19	*Post-graduate Dip. in Edu. Admn.	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100
20	*Post-graduate Dip. in App. Ling.	6	1	3	2	5	—	—	—	3	3	@1	—	—	1	2	5	100
21	*Post-graduate Dip. in Guidance & Counselling	5	—	3	2	5	—	—	—	2	2	—	—	—	1	1	3	60.0
22	*Dip. in Co-operation (Under-grad.)	7	—	7	—	7	—	—	—	7	7	—	—	—	—	—	7	100
23	Prep. Commerce	507	3	494	10	504	—	12	106	137	255	—	—	4	3	7	262	51.98
24	First Year B.Com.	475	6	465	4	469	—	2	73	115	190	—	—	1	3	4	194	41.36

* No class is awarded.
@Pass with Distinction only.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
25	*Second Year B.Com.	403	15	384	4	388	—	—	—	223	223	—	—	—	4	4	227	58.50
26	Second Year B.Com. (under O. Com. 27)	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.0
27	B.Com. (Final Year)	227	4	222	1	223	—	4	41	118	163	—	1	—	—	1	164	78.02
28	B.Com. (O. Com. 27)	24	2	17	5	22	—	—	—	9	9	—	—	—	4	4	13	59.09
29	*B.Com. (O. Com. 25)	7	2	5	—	5	—	—	—	5	5	—	—	—	—	—	5	100
30	M.Com.	26	2	24	—	24	—	—	3	8	11	—	—	—	—	—	11	45.83
31	*P. G. Dip. in Banking	9	1	8	—	8	—	—	—	6	6	—	—	—	—	—	6	75.0
32	*Ist M.B., B.S.	16	—	11	5	16	—	—	—	9	9	—	—	—	5	5	14	87.5
33	*IInd M.B., B.S.	35	—	28	7	35	—	—	—	12	12	—	—	—	2	2	14	40.0
34	*IIIrd M.B., B.S.	55	1	51	3	54	—	—	—	24	24	—	—	—	3	3	27	50.0
35	*M.S. (Br. I)-Surgery	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00
36	*M.D. (Br. I)-Medicine	5	—	5	—	5	—	—	—	1	1	—	—	—	—	—	1	20.00
37	*M.D. (Br. V)-O. &	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00
38	*Diploma in Laryngology and Otology	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.00

* *No class is awarded.*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
39	*Diploma in Venereology and Dermatology	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
40	*Diploma in Gynaecology and Obstetrics	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.0
41	M.Sc. (Anatomy)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00
42	F.Y. Dip. (CME)	360	2	355	3	358	—	29	90	90	209	—	—	1	1	2	211	58.94
43	S.Y. Dip. (CME)	316	1	314	1	315	—	44	119	83	246	—	—	1	—	1	247	78.41
44	Dip. in Civil Engg.	92	—	92	—	92	—	18	38	30	86	—	—	—	—	—	86	93.47
45	Dip. in Mech. Engg.	86	1	85	—	85	—	13	29	31	73	—	—	—	—	—	73	85.88
46	Dip. in Mech. Engg. (Under O.621)	18	3	15	—	15	—	1	8	2	11	—	—	—	—	—	11	73.33
47	Dip. in Elec. Engg.	54	5	49	—	49	—	3	13	16	32	—	—	—	—	—	32	65.30
48	Dip. in Elec. Engg. (Under O.630)	28	2	26	—	26	—	9	11	3	23	—	—	—	—	—	23	88.46
49	Dip. in Text. Chem.	27	—	27	—	27	—	—	6	17	23	—	—	—	—	—	23	85.18
50	Dip. in Text. Chem. (Under O.547)	27	—	27	—	27	—	4	12	8	24	—	—	—	—	—	24	88.8
51	Dip. in Text. Tech.	35	2	33	—	33	—	3	17	7	27	—	—	—	—	—	27	81.81

* No class is awarded

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
52	F.E. (CMETeTt)	327	—	326	1	327	6	37	99	28	170	—	—	—	1	1	171	52.29
53	S.E. (CMETeTt)	367	1	364	2	366	3	31	126	41	201	—	—	—	1	1	202	55.19
54	S.E. (CME) (Under O. 635)	29	—	29	—	29	—	—	—	23	23	—	—	—	—	—	23	79.31
55	T.E. (CME)	334	—	333	1	334	3	15	99	57	174	—	—	—	1	1	175	52.39
56	T. Text. (Engg.)—New	15	—	15	—	15	—	1	12	—	13	—	—	—	—	—	13	86.66
57	T. Text. (Tech.)— New & Old courses	7	—	7	—	7	—	—	4	1	5	—	—	—	—	—	5	71.43
58	B.E. (Civil)—Old and New courses	98	—	97	1	98	3	7	50	18	78	—	—	1	—	1	79	80.61
59	B.E. (Mech.)—Old and New courses	72	—	72	—	72	7	14	32	2	55	—	—	—	—	—	55	76.39
60	B.E. (Mech.)—N. C. (Under O. 673)	15	—	15	—	15	—	1	11	—	12	—	—	—	—	—	12	80
61	B.E. (Mech.)—N. C. (Under O. 673A)	5	—	5	—	5	—	—	4	—	4	—	—	—	—	—	4	80
62	B.E. (Elect.)—New and Old courses	58	—	58	—	58	9	11	22	3	45	—	—	—	—	—	45	77.77
63	B.E. (Elect.)—N. C. (Under O. 679)	7	—	7	—	7	—	—	3	—	3	—	—	—	—	—	3	42.85

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
64	B.Text. (Engg.)—Old and New courses	22	—	22	—	22	2	8	12	—	22	—	—	—	—	—	22	100
65	B.Text. (Tech.)—Old course	2	—	2	—	2	1	1	—	—	2	—	—	—	—	—	2	100
66	*M.E. (Civil)—Part I	5	—	5	—	5	—	—	—	4	4	—	—	—	—	—	4	80
67	*M.E. (Civil)—Part II	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00
68	M.E. (Civil)—Parts II & III	3	1	2	—	2	—	2	—	—	2	—	—	—	—	—	2	100
69	M.E. (Civil)—Part III	5	1	4	—	4	—	2	2	—	4	—	—	—	—	—	4	100
70	*M.E. (Mech.)—Part I	3	1	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.0
71	*M.E. (Mech.)—Part II	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100
72	*M.E. (Elect.)—Part I	2	1	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
73	*M.E. (Elect.)—Part II	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
74	Elem. Arch.	58	—	53	5	58	—	1	14	9	24	—	—	3	1	4	28	48.28
75	Int. Arch.	28	—	27	1	28	—	—	14	5	19	—	—	—	1	1	20	71.43
76	B. Arch.	56	—	54	2	56	1	5	19	7	32	—	—	—	1	1	33	58.93
77	*M.A. (Fine)—Painting	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100

* No class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
78	*M.A. (Fine)-Appl. Arts	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00
79	*M.A. (Fine)—Sculpture	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
80	*B.A. (Fine)—Painting	4	—	3	1	4	—	—	—	2	2	—	—	—	—	—	2	50.0
81	*B.A. (Fine)--Appl. Arts	9	—	9	—	9	—	—	—	5	5	—	—	—	—	—	5	56.11
82	*Post-Dip. in Fine Arts (Painting)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
83	*Diploma in Fine Arts (Painting)	7	—	7	—	7	—	—	—	5	5	—	—	—	—	—	5	71.42
84	*Dip. in Fine Arts (Appl. Arts)	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66
85	*M. Mus.	3	—	2	1	3	—	—	—	1	1	—	—	—	1	1	2	66.66
86	*B. Mus.	8	—	4	4	8	—	—	—	2	2	—	—	—	4	4	6	75
87	Post-Diploma in Dance	2	—	1	1	2	—	—	—	1	1	—	—	1	—	1	2	100
88	Dip. in Music	38	1	29	8	37	—	4	5	13	22	—	—	2	5	7	29	78.37
89	Dip. in Dance	8	—	2	6	8	—	—	2	—	2	—	—	1	—	1	3	37.5
90	Dip. in Drama	4	—	4	—	4	—	—	1	2	3	—	—	—	—	—	3	75.0
91	Dip. in Museology	4	—	4	—	4	@2	—	—	2	4	—	—	—	—	—	4	100

* No class is awarded.
@ Pass with Distinction only.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
92	M.Sc. (Home)	3	—	—	3	3	—	—	—	—	—	—	—	£3	—	3	3	100
93	B.Sc. (Home)	43	—	—	43	43	—	—	—	—	—	—	+1	£22	%18	41	41	95.34
94	Dip. in Nursery School Education	2	—	—	2	2	—	—	—	—	—	—	—	£1	%1	2	2	100
95	M.S.W.	29	—	21	8	29	—	—	£2	%16	18	—	—	£2	%6	8	26	89.65
96	*Ph.D. (Arts)	5	—	4	1	5	—	—	—	4	4	—	—	—	1	1	5	100
97	*Ph.D. (Science)	9	—	9	—	9	—	—	—	9	9	—	—	—	—	—	9	100
98	*Ph.D. (Edu.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
99	*Ph.D. (Psy.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100
100	*M.Ed. (Thesis)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100

* No class is awarded. + Pass with A Grade. £ Pass with B Grade. % Pass with C Grade.

Results of the University Examinations Oct./Nov./Dec. 1961

Sr. No.	Examination	No. Registered	No. Absent	No. appeared			Number Passed										Grand Total	Percentage of passes
							Men					Women						
				Men	Women	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	First Year B.A.	144	16	93	35	128	—	—	12	46	58	—	—	2	23	25	83	64.84
2	*Second Year B.A.	78	1	54	23	77	—	—	—	35	35	—	—	—	13	13	48	63.16
3	B.A. (Final Year)	32	1	28	3	31	—	—	2	22	24	—	—	—	2	2	26	86.12
4	Pre-Medical	7	—	7	—	7	—	—	—	4	4	—	—	—	—	—	4	57.14
5	First Year B.Sc.	70	1	61	8	69	—	—	2	24	26	—	—	1	6	7	33	47.82
6	*Second Year B.Sc.	89	6	77	6	83	—	—	—	47	47	—	—	—	5	5	52	62.65
7	B.Sc. (Final Year)	31	4	25	2	27	—	—	5	11	16	—	—	—	1	1	17	65.38
8	First Year B.Com.	259	12	246	1	247	—	—	—	96	96	—	—	—	1	1	97	39.35
9	*Second Year B.Com.	167	20	147	—	147	—	—	—	54	54	—	—	—	—	—	54	36.73
10	B.Com. (Final Year)	47	1	46	—	46	—	—	1	23	24	—	—	—	—	—	24	52.17
11	B.Com. (O. Com. 27)	5	—	5	—	5	—	—	—	2	2	—	—	—	—	—	2	40.00
12	B.Com. (O. Com. 25)	5	1	3	1	4	—	—	—	3	3	—	—	—	1	1	4	100.00
13	Post-graduate Dip. in Co-operation	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00
14	First M.B., B.S.*	60	1	47	12	59	—	—	—	30	30	—	—	—	12	12	42	71.18
15	Second M.B., B.S.*	68	—	55	13	68	—	—	—	36	36	—	—	—	11	11	47	69.11
16	Third M.B., B.S.*	58	—	54	4	58	—	—	—	35	35	—	—	—	2	2	37	63.79
17	*M.S. (Br. I)—Surgery	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00
18	*M.D. (Br. I)—Medicine	4	—	4	—	4	—	—	—	1	1	—	—	—	—	—	1	25.00
19	*M.D. (Br. V)—O. & G.	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66

* No class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	Diploma in Venereo-*logy & Dermatology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00
21	*Dip. in Anaesthesiology	2	—	1	1	2	—	—	—	1	1	—	—	—	1	1	2	100.00
22	*Diploma in Laryngology & Otology	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66
23	*Diploma in Gynaecology & Obstetrics	5	—	3	2	5	—	—	—	2	2	—	—	—	1	1	3	60.00
24	*Diploma in Clinical Pathology	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00
25	M.Sc. (Anatomy)	1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100.00
26	M.Sc. (Pharmacology)	3	1	2	—	2	—	—	1	—	1	—	—	—	—	—	1	50.00
27	F.Y. Dip. (CME)	124	—	123	1	124	—	—	—	43	43	—	—	—	1	1	44	35.48
28	S. Y. Dip. (CME)	66	2	64	—	64	—	1	—	31	32	—	—	—	—	—	32	50.00
29	Dip. in Civil Engg.	6	—	6	—	6	—	—	—	4	4	—	—	—	—	—	4	66.66
30	Dip. in Mech. Engg.	12	1	11	—	11	—	—	4	2	6	—	—	—	—	—	6	54.54
31	Dip. in Mech. Engg. (O. 621)	8	2	6	—	6	—	—	—	6	6	—	—	—	—	—	6	100.00
32	Dip. in Elect. Engg.	20	1	19	—	19	—	—	3	9	12	—	—	—	—	—	12	63.15
33	Dip. in Textile Chemistry	4	1	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.00
34	Dip. in Textile Chemistry (O. 547)	3	—	3	—	3	—	—	1	2	3	—	—	—	—	—	3	100.00
35	Dip. in Textile Technology	5	1	4	—	4	—	—	2	1	3	—	—	—	—	—	3	75.00
36	F.E. (CMETeTt)	136	1	135	—	135	—	—	6	67	73	—	—	—	—	—	73	54.07
37	S.E. (CME TeTt)	172	3	169	—	169	—	—	—	97	97	—	—	—	—	—	97	57.4
38	T.E. (CME)	155	4	151	—	151	—	—	3	85	88	—	—	—	—	—	88	58.3
39	T.Text. (Engg.)—New	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00
40	T.Text. (Tech.)—New	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00
41	T.Text. (Tech.)—Old	1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100.00

* No class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
42	B.E. (Civil)—New & Old	16	—	16	—	16	—	—	9	4	13	—	—	—	—	—	13	81.25
43	B.E. (Mech.)—New & Old	15	—	15	—	15	—	—	4	6	10	—	—	—	—	—	10	66.66
44	B.E. (Mech.)—New (O.673)	2	1	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100.00
45	B.E. (Mech.)—New (O.673 A)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00
46	B.E. (Elect.)—Old & New	13	—	13	—	13	1	—	4	2	7	—	—	—	—	—	7	53.84
47	B.E. (Elect.)—New (O. 679)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00
48	B.Text. (Tech.)—Old	3	—	3	—	3	—	—	3	—	3	—	—	—	—	—	3	100.00
49	M.E. (Civil)—Part II	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.00
50	M.E. (Civil)—Parts II & III	1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100.00
51	M.E. (Civil)—Part III	1	—	1	—	1	1	—	—	—	1	—	—	—	—	—	1	100.00
52	M.E. (Mech.)—Part I	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00
53	Elem. Arch.	25	—	24	1	25	—	—	—	15	15	—	—	—	1	1	16	64.0
54	Int Arch.	8	—	8	—	8	—	—	—	7	7	—	—	—	—	—	7	87.50
55	B. Arch.	21	—	20	1	21	—	—	—	8	8	—	—	—	—	—	8	38.09
56	M.Sc. (Home)	2	1	—	1	1	—	—	—	—	—	—	—	@1	—	1	1	100.00
57	B.Sc. (Home)	9	—	—	9	9	—	—	—	—	—	—	—	@1	£6	7	7	77.77
58	M.S.W.	8	—	7	1	8	—	—	—	£5	5	—	—	—	—	—	5	62.5
59	*Ph.D. (Arts)	10	—	8	2	10	—	—	—	8	8	—	—	—	2	2	10	100.00
60	*Ph.D. (Science)	12	—	12	—	12	—	—	—	12	12	—	—	—	—	—	12	100.00
61	*Ph.D. (Education)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00
62	*Ph.D. (Psychology)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00
63	M.Ed. (by thesis)	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.00

* No class is awarded. @ Pass with B Grade. £ Pass with C Grade.

7. Finance of the University

(1) *Endowments received during the year :*

The Syndicate accepted the following new endowments :

(a) Sheth Chimanlal Girdharlal Gold Medal Fund :

The Syndicate accepted the donation of Rs. 5,000 from Sheth Chandravadan Chimanlal for awarding a gold medal at the Annual Convocation to a candidate securing I class first at the first attempt in the March/April Examination in (i) B.Text. (Eng.) and (ii) B.Text. (Tech.). The medal is to be awarded in the two examinations by rotation.

(b) Professor V. Y. Kolhatkar Gold Medal Fund :

The Syndicate accepted the donation of 70 Second Preference shares of Tata Iron and Steel Co. Ltd., yielding 7½% interest, from Professor V. Y. Kolhatkar Fund Committee for awarding two gold medals of equal cost at the Annual Convocation (i) to a regular student securing the highest number of marks at the B.Com., March/April Examination with at least a II class at the first attempt and (ii) to a regular student securing the highest number of marks at the M.Com., March/April Examination with at least a II class at the first attempt.

(c) Shrimati Umabai Gharpure Memorial Prize Fund :

The Syndicate accepted the donation of Rs. 1,500 from Shri D. M. Gharpure, Gharpure and Co., Calcutta for awarding an annual prize in cash at the Faculty Day function to a student who passes his B.A. Degree Examination in March/April with the highest number of marks in Marathi (Major) at the first attempt. Failing this, the prize shall be awarded in the like manner to a student who passes his S.Y. B.A. Examination in March/April with the highest number of marks in Marathi (Minor) at the first attempt. Failing this also, the prize shall be awarded in the like manner to a student who passes his F.Y. B.A. Examination in March/April with the highest number of marks in Marathi as one of his papers at the first attempt.

(d) Professor D. Subba Rao Memorial Fund :

The Syndicate accepted the donation of Rs. 33,896=81 in shares and cash from the Joint Secretary, Late Professor D. Subba Rao Memorial Fund Committee, Faculty of Technology and Engineering, for awarding a gold medal not exceeding the cost of Rs. 200 at the Annual Convocation to a candidate securing the 1st rank in the March/April Examinations in

rotation, in the following order, year after year, in the examinations shown below :

(i) B.E. (Mech.), (ii) B.E. (Elec.), (iii) B.Text. (Eng.), (iv) B.Text. (Tech.), (v) B.E. (Civil), (vi) B.Arch.

23 prizes, each of Rs. 75 per annum in the form of Technical books, drawing and other instruments, etc., shall also be awarded to the students who obtain the 1st rank amongst the successful candidates at the various Diploma and Degree Examinations held by the M. S. University of Baroda.

As per Statement of Accounts as on the 20th July, 1961, the contribution of the Fund was Rs. 41,643=35—Rs. 35,727=50 invested in purchase of shares and Rs. 468.96 expended towards miscellaneous expenses.

(2) *Capital Accounts :*

Receipts and Payments for the year ended 31st March, 1962 (i.e. from the 1st April, 1961 to the 31st March, 1962)

(Subject to Audit)

I—University General Fund

Receipts	*Rs.nP*	*Payments*	*Rs.nP.*
Interest	61,928.68	Building Works :	
Loans from the Government of India, Ministry of Scientific Research and Cultural Affairs, New Delhi for three Halls of Residence for Polytechnic	6,52,500.00	Water Supply Scheme in the University campus	55,664.40
Loan from the State Government towards the construction of VIth Hall of Residence	2,00,000.00	Construction of the building of the 3rd Gujarat Battalion, N.C.C.	1,53,323.32
Grant from the University Grants Commission towards the construction of the University Library Building (balance)	25,000.00	University Office Building	2,23,357.72
Sale proceeds of Land	3,81,045.86	VIth Hall of Residence for Men students	3,38,294.57
Grant from the State Government towards the construction of the University Office Building	2,00,000.00	Compound wall to the North East of Tara Nivas	17,039.05
Expenditure on Lecturers' quarters in 1960-61 charged to the Grant accounts	57,153.01	Construction of 5 Professors' quarters and five garages for Professors coming through Ford Foundation	2,64,888.38
Adjustment of expenditure on Hobby Workshop	66.36	Polytechnic Hall No. I	1,57,043.08
		Polytechnic Hall No. II	1,58,402.52
		Polytechnic Hall No. III	2,26,931.72
		Readers' quarters (Wardens' quarters)	41,079.89
		Cycle shed in Baroda College area	40,986.07
		Cycle shed for the Polytechnic	3,547.65

Receipts	Rs. Pn.
Adjustment of Expenditure on Extension of the Building of the Department of Psychology	6.88
Opening Balance as on the 1st April, 1961	11,48,263.46
Carried over	27,25,964.25

Payments	Rs. nP.
Extension of the building of the Faculty of Home Science	1,30,961.29
Building for the Technology Section including compensation for the land etc.	90,199.73
Cycle shed for the Faculty of Science	4,113.98
Adding up a room in the first floor of Sevanti Bag	14,382.71
Construction of Class IV Servants' Quarters	1,11,543.41
Constructing Ajwa Water Sump	4,463.61
Cycle shed for the University Press	5,556.52
Providing North light roof to the Furniture Shed in the Workshops	10,383.77
Sump for the Hydraulic Laboratories for the Polytechnic	6,735.55
Providing service staircase and storage and washing place in Readers' quarters	4,891.01
Providing drainage connection and roads to the Readers' quarters Colony in Pratapganj	7,999.26
Excess expenditure on buildings over sanctioned grants:	
Building of the Department of Archaeology and Ancient History	60.00
Additional space to the Existing Science Departments	1,032.67
Additional Wing to Social Sciences Block	1,681.91
Vivarium for Zoology	25.94
Health Centre	393.39
Polytechnic Building	11,456.49

Brought forward		27,25,964.25	Building for the Department of Physics and Geography 51,468.38
			Construction of the first floor over Seminar building 4,750.86
			Construction of 4 Readers' quarters (Behind Vikram Bag) and 8 Lecturers' quarters (Behind Adhyapak Kutirs) 39,387.38
			Non-resident Students' Centre 38,428.06
			Students' Health Centre 7,697.63
			Improvement of Library facilities in the Faculty of Technology and Engineering 665.50
			Building for the Departments of Painting and Sculpture 10,483.50
			Construction of the first floor over column on the North East Wing of the Social Sciences block and two staff rooms on the north side of the main Block 17,419.17
			Special Heavy repairs: 1,212.83
			Purchase of furniture and equipment for the VIth Hall of Residence 15,751.50
			Purchase of furniture and equipment for the three Halls of Residence for Polytechnic 1,20,492.53
			Furniture and equipment for Technology Section 3,726.85
			Advance to the Press:
			Machinery 990.76
			Types and Metal 2,243.42
			Press Building 8,055.23
			11,289.41
			Deficit (Revenue Accounts) 2,835.58
			Total: 24,12,048.83
			Closing Balance as on the 31st March, 1962 3,13,915.42
Total		27,25,964.25	Total 27,25,964.25

II—Ayurvedic Research Fund (Sheth U. P. Ayurvedic Research Unit)

Receipts	*Rs.nP.*	*Payments*	*Rs.nP.*
Interest	36,937.42	Amount transferred to meet the excess recurring expenditure over and above the State Government grant	25,839.62
Opening Balance as on the 1st April, 1961	11,08,215.82	Closing balance as on the 31st March, 1962	11,19,313.62
Total	11,45,153.24	Total	11,45,153.24

III—Post-Graduate Instruction and Research Fund

Receipts	*Rs.nP.*	*Payments*	*Rs.nP.*
Interest	1,35,563.78	Amount transferred to Revenue Accounts towards the expenditure on Research Schemes	30,000.00
Opening Balance as on the 1st April, 1961	42,38,875.14	Closing Balance as on the 31st March, 1962	43,44,438.92
Total	43,74,438.92	Total	43,74,438.92

(3) Revenue Accounts :

Receipts and Expenditure for the year ended 31st March, 1962 (*i.e.* from the 1st April, 1961 to the 31st March, 1962)

(Subject to Audit)

S.No.	Particulars	Receipts Rs. nP.
I	**Tuition Fees and other income from Faculties and Institutions**	**16,31,349=67**
	(A) Faculties	
	(a) Faculty of Arts	2,72,757=33
	(b) Faculty of Science	2,86,086=51
	(c) Faculty of Education and Psychology	1,15,610=36
	(d) Faculty of Commerce	2,69,837=11
	(e) Faculty of Technology and Engineering	4,49,090=96
	(f) Faculty of Fine Arts	36,310=45
	(g) Faculty of Home Science	89,233=30
	(h) Faculty of Social Work	31,895=99
	(i) Faculty of Law	47,759=00
	(B) Institutions	
	(a) College of Indian Music, Dance and Dramatics	31,396=03
	(b) Preparatory Unit	1,361=63
	(c) Sanskrit Mahavidyalaya	11=00
II	**Examination Fees**	**4,99,540=09**
III	**Other Fees**	**1,39,353=96**
IV	**Income from Publications**	**39,162=35**
VA	***Grant from the State Government***	**24,35,457=53**

S.No.	Particulars	Disbursements Rs.nP.
I	**University General Administration**	**2,74,469=72**
II	**Examination Charges**	**3,97,543=87**
III	**Deadstock and Repairs**	**14,585=64**
IV	**Publications**	**28,128=03**
V	**Information and Publicity**	**9,630=92**
VI	**Remuneration to Lecturers**	**400=00**
VII	**Travelling Allowance**	**26,783=43**
VIII	**Printing and Stationery**	**56,012=08**
IX	**Maintenance of Buildings and Roads and temporary establishment for Capital Works**	**80,889=85**
X	**Maintenance of Gardens**	**38,537=05**
XI	**Municipal Taxes, and Law Charges**	**8,644=86**
XII	**University Contribution to Provident Fund**	**12,406=18**
XIII	**Study Leave**	**—**
XIV	**Miscellaneous**	**1,10,870=05**
XV	**Research Staff, Contingencies, Equipment etc.**	**94,701=02**
XVI	**Scheme of Teaching Hindi to University Employees**	**2,402=08**
XVII	**Health Centre**	**—**
XVIII	**University Guest House**	**8,382=67**

S.No.	Particulars	Receipts Rs. nP.
VB	Grant from the University Grants Commission and the State Government towards the increase in salaries of the teaching staff due to grade revision	40,594=40
VC	Grants for Three Year Degree Course in Arts, Science and Commerce	37,500=00
VI	Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	3,00,000=00
VII	Interest on cash Balances	29,176=45
VIII	Income from Endowments	30,704=54
IX	Income from Halls of Residence for Students	2,80,297=50
X	Income from use and occupations of University quarters and Bungalows including Furniture Rent	63,812=95
XI	Income from University Guest House	3,960=70
XII	Income from Lease of Land	325=00
XIII	Miscellaneous Income	1,21,114=00
XIV	Income from M. S. University of Baroda Press (Sadhana Press)	2,62,323=16
XV	Income from M. S. University Stationery Unit	1,08,263=59
	Total	60,22,935=89
	Excess of Disbursement over Receipts *i.e.* Deficit	2,835=58
	Grand Total	60,25,771=47

S.No.	Particulars	Disbursements Rs. nP.
XIX	50% Expenditure of the University Grants Commission Unit	6,518=71
XX	University Library	2,03,748=90
XXI	Physical Education Department	1,03,291=72
XXII	Faculties and Institutions	38,74,766=36
	(A) Faculties	
	(a) Faculty of Arts	5,05,068=77
	(b) Faculty of Science	8,34,786=93
	(c) Faculty of Education and Psychology	3,53,060=02
	(d) Faculty of Commerce	1,60,290=95
	(e) Faculty of Technology and Engineering	9,43,269=47
	(f) Faculty of Fine Arts	2,46,522=53
	(g) Faculty of Home Science	2,53,573=08
	(h) Faculty of Social Work	1,66,339=87
	(i) Faculty of Law	23,176=62
	(B) Institutions	
	(a) Oriental Institute	93,467=14
	(b) College of Indian Music, Dance and Dramatics	2,01,590=94
	(c) Preparatory Classes Unit	41,444=09
	(d) Sanskrit Mahavidyalaya	52,175=95
XXIII	M. S. University of Baroda Press (Sadhana Press)	2,77,029=74
XXIV	M. S. University Stationery Unit	1,07,991=37
XXV	M. S. University Publications Sales Unit	7,709=92
XXVI	Halls of Residence for Students	2,80,327=30
	Total	60,25,771=47

(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, 1961 to the 31st March, 1962.

A. Grants from the University Grants Commission:

Humanities	*Rs.*
1. Development of the Departments of Hindi, English and Sociology	45,611=00
(i) Manuscripts for the Hindi Department	1,666
(ii) Books for the Hindi Department	66
(iii) Books for the English Department	1,666
(iv) Books for the Sociology Department	13,333
(v) Staff	28,880
2. Construction of the additional Wing to the Social Sciences Block for the Department of Sociology	50,000=00
3. Furniture and equipment for the additional Wing for the Sociology Department	6,000=00
4. Development of the Departments of Economics and Politics	52,000=00
(i) Books for the Department of Economics	5,000
(ii) Books for the Department of Politics	30,000
(iii) Staff	17,000
5. Development of the Department of Archaeology and Ancient History	1,11,032=00
(i) Building	18,000
(ii) Equipment	18,032
(iii) Staff and maintenance	75,000
6. Development of the Department of Psychology	4,000=00
(i) Books	1,000
(ii) Staff	3,000
7. Pilot Project of Psychological Counselling for University Students	12,708=00
Staff and maintenance	12,708
8. Post-graduate Diploma in Co-operation	11,666=00
(i) Building	5,000
(ii) Books	1,666
(iii) Staff	5,000

Humanities

			Rs.
9.	Construction of the new building for the Faculty of Commerce and the Departments of Economics and Politics		8,334=00
10.	Furniture for the new building for the Faculty of Commerce and the Departments of Economics and Politics		3,000=00
11.	Development of the Departments of Painting and Sculpture		79,000=00
	(i) Building for the Studios	55,000	
	(ii) Mezzanine floor of the Exhibition Hall	20,000	
	(iii) Furniture and equipment	4,000	
12.	Development of the Department of Museology		35,100=00
	(i) Equipment and Books	10,000	
	(ii) Staff and maintenance	25,100	
13.	Construction of a new building for the Faculty of Social Work		9,201=07
14.	Furniture and equipment for the new building of the Faculty of Social Work		8,000=00
15.	Publication of the Gaekwad Oriental Series		13,000=00
16.	Publication of a Critical Edition of Valmiki Ramayana		26,000=00
17.	Furniture and equipment for the extension of the building of the College of Indian Music, Dance and Dramatics		9,000=00
18.	Construction of a new building for the University Library		25,000=00
19.	Furniture and equipment for the new building of the University Library		800=00
20.	Improvement of the existing Printing Press of the University		77,000=00
21.	Establishment of Hobby Workshop in the University		27,578=22
	(i) Equipment and furniture	22,000=00	
	(ii) Staff and maintenance	5,578=22	
22.	Construction of a new building for the Students' Health Centre		35,000=00
23.	Construction of a new building for the Non-Resident Students' Centre		30,000=00
24.	Construction of 4 Readers' and 8 Lecturers' Quarters		50,000=00
25.	Construction of 9 Readers' and 12 Lecturers' Quarters		1,00,000=00

Humanities

			Rs.
26.	Examination Reform and Research Scheme		11,000=00
	(i) Staff and maintenance	11,000	
27.	Additional Staff in the Grants Commission Unit		5,500=00
28.	Establishment of University Film Club		3,750=00
29.	Establishment of Students' Aid Fund in the University		8,935=00
30.	Implementation of the Three Year Degree Course in the Faculties of Arts (including Psychology), Science and Commerce		81,250=00
	(i) Building (Arts)	18,750	
	(ii) Building (Science)	18,750	
	(iii) Building (Commerce)	6,250	
	(iv) Staff (Arts)	12,500	
	(v) Staff (Science)	12,500	
	(vi) Staff (Commerce)	12,500	
31.	Revision of Salary Scales of University Teachers		1,54,093=00
	(i) National Benefit on account of service in the First Five Year Plan to Professors and Lecturers	1,13,797	
	(ii) Teachers in the Faculty of Technology and Engineering and the Polytechnic	40,296	
32.	Library Workshop of the Western Region at Baroda under the auspices of India Wheat Loan Educational Exchange Programme		1,923=43
33.	Books and Journals on Humanities and Social Sciences in the University Library		30,000=00
34.	Travel Grants to Teachers		4,042=78
35.	Scheme of Research in Social Welfare by Dr. A. S. Patel of the Faculty of Education and Psychology—How far do home conditions contribute to Juvenile Delinquency ?		1,000=00
36.	Senior Research Fellowship to Dr. (Kumari) Surbhi H. Trivedi		3,000=00

Sciences :

1.	Books and Journals on Scientific and Technical subjects		30,000=00
2.	Additional staff in the Faculty of Science		38,592=00
	(i) Three Professors (Botany, Mathematics and Zoology) and one Reader (Geography)	25,478	

			Rs.
Sciences			
	(ii) Reader in Physical Chemistry	6,848	
	(iii) One Professor, two Lecturers and two technical personnel in Biochemistry Department	6,265	
3.	Construction of a new building for the Faculty of Science		3,800=00
4.	Senior Research Fellowship to Dr. C. G. Khatri of the Statistics Department		6,766=67
5.	Junior Research Fellowship to Dr. J. M. Lohar of the Chemistry Department		2,000=00
	Technology and Engineering		
1.	Establishment of High Voltage Laboratory in the Faculty of Technology and Engineering		10,000=00
2.	Expansion Scheme of the Degree Courses in Engineering in the Faculty of Technology and Engineering as per Ghosh-Chandrakant Report		21,256=00
	(i) Staff and maintenance	21,256	
3.	Expansion Scheme of the Diploma Courses in Engineering in the Polytechnic as per Ghosh-Chandrakant Report		3,72,570=00
	(i) Equipment, furniture and books	1,82,000	
	(ii) Building	25,000	
	(iii) Staff and maintenance	1,65,570	
4.	Research Fellowship to Shri A. L. Lagvankar of the Civil Engineering Department		3,113=33
B.	**Grants from Ministry of Education, Government of India :**		
1.	Department of Extension Services		18,811=51
2.	Research Work in Mathematics by Shri M. N. Khatri		2,000=00
3.	Inter Collegiate Youth Festival		3,818=00
4.	Fellowships to French Fellows		3,000=91
5.	Research Scholarships to Sarvashri S. M. Dave and A. Y. Tripathi (Humanities) and Shri P. Ambadkar (Science)		6,000=00
6.	Post-graduate Scholarships in Humanities		8,315=34
C.	**Grants from the Ministry of Scientific Research and Cultural Affairs, Government of India :**		
1.	Scheme of Teaching Hindi to African Students		1,200=00
2.	Excavation work at Shamlaji		7,500=00

			Rs.
3.	Individual Research Workers for Fundamental Research		7,500=00
	(i) Dr. R. V. Joshi	2,500	
	(ii) Professor J. C. George	5,000	
4.	Research Training Scholarships		24,458=91
D.	**Grants from the Ministry of Community Development and Co-operation, Government of India :**		
1.	All India Co-operative Week Celebrations in 1960		825=00
	(i) Prizes	75	
	(ii) Debates	250	
	(iii) Holding essay and debate competitions	500	
E.	**Grants from the Ministry of Community Project Administration, Government of India :**		
1.	Training Centre for Specialised Training of Social Education Organisers, Samiala		1,01,250=00
F.	**Grants from the Ministry of Information and Broadcasting, Government of India :**		
1.	Establishment of Information Centre for Plan Publicity at the Residential Universities		75=00
G.	**Grants from the Council of Scientific Research and Cultural Affairs :**		
1.	Research for Optical Studies on Etched Surfaces of Metal Alloy Crystals by Professor N. S. Pandya		3,161=13
2.	Studies in Liquid Crystals Effect of Structure on Liquid Crystal State by Dr. J. S. Dave		2,549=01
3.	Studies on Optical and Related Properties of Luminescent Material by Dr. R. V. Joshi		1,500=00
4.	Study of C_4 Metabolism in Moulds and Plant by Dr. C. V. Ramakrishnan		1,850=00
5.	Research Work by retired Scientists—Professor D. V. Gogate		4,250=00
6.	C.S.I.R. Fellowships		15,050=00
	(i) Shri P. N. Raina	6,300	
	(ii) Shri V. N. Vallayathan	4,000	
	(iii) Kumari A. K. Susheela	4,000	
	(iv) Shri J. R. Pandya	750	

			Rs.
H. Grants from the Sangeet Natak Akademy :			
1. Research Projects in Music, Dance and Dramatics			5,539=00
2. Publication of a Biography of Great Bharatiya Nat—Nat Amrut Keshav Naik			2,000=00
G. Grants from the Government of Gujarat, Education and Labour Department (now Education and Social Welfare Department) :			
1. Development of the Departments of Hindi, English and Sociology			11,308=78
Staff		11,308=78	
2. Development of the Department of Economics and Politics			17,000=00
Staff		17,000=00	
3. Furniture for the new wing for the Department of Sociology			3,000=00
4. Project for a Socio-Historical Survey of the Muslim Population of Gujarat			8,140=39
Staff and maintenance		8,140=39	
5. Pilot Project for a Psychological Counselling for University Students			12,708=00
Staff and Maintenance		12,708=00	
6. New building for the Faculty of Commerce and the Departments of Economics and Politics			6,666=00
7. Post-graduate Diploma Course in Co-operation			12,000=00
(i) Books and Equipment		4,000=00	
(ii) Staff		8,000=00	
8. Development of Department of Painting and Sculpture			7,000=00
(i) Furniture and Equipment		2,000=00	
(ii) Mezzanine floor for the Present Exhibition Hall		5,000=00	
9. Publication of a Critical Edition of Valmiki Ramayana			40,500=00
10. Publication of Gaekwad Oriental Series			10,000=00
11. Establishment of Non-Resident Students' Centre			13,000=00
12. Examination Reform and Research Scheme			17,000=00
(i) Equipment and Furniture		1,000=00	
(ii) Staff and Maintenance		16,000=00	
13. Improvement of the Existing Printing Press of the University			28,500=00

			Rs.
14. Furniture and equipment for the College of Indian Music, Dance and Dramatics			5,184=00
15. Revision of Salary Scales of University Teachers			20,000=00
16. Additional Staff in the Faculty of Science			42,598=86
(i) Three Professors (Botany, Mathematics and Zoology) and one Reader (Geography)		23,278=29	
(ii) Reader in Physical Chemistry		6,849=00	
(iii) One Professor, two Lecturers and two technical personnel in Biochemistry		12,471=57	
17. Equipment for the Department of Biochemistry			23,333=00
18. Expansion Scheme of the Degree Courses in Engineering in the Faculty of Technology and Engineering as per Ghosh-Chandrakant Report			67,794=00
Staff and Maintenance		67,794=00	
19. Expansion Scheme of the Diploma Courses in Engineering in the Polytechnic as per Ghosh-Chandrakant Report			2,56,876=00
Staff and maintenance		2,56,876=00	
20. Department of Extension Services			6,250=00
21. Excavation Work at Shamlaji			2,500=00
22. Tagore Centenary Celebrations			2,000=00
23. Construction of a new Building for the Administrative Office of the M. S. University of Baroda			2,00,000=00
24. Industrial Training Institute			11,099=00
H. Grants from the Government of Gujarat, Health and Industries Department :			
1. Research Scheme 'Microbiological Synthesis on Fat' by Dr. C. V. Ramakrishnan			4,400=00
2. Research Scheme 'Recovery and Separation of Alkaloids by Ion Exchange Compounds' by Dr. S. L. Bafna			7,400=00
3. Research Scheme 'Study of Flora of Gujarat' by Dr. A. R. Chavan			6,240=00
I. Grants from the Government of Gujarat, Agriculture and Land Department :			
1. Gram Sevika Training Centre			42,334=14
J. Grant from the UNESCO Research Centre :			
1. Research Project on Rajkot Industrial Estate by Professor M. B. Desai			15,000=00

8 Construction Division

(1) *Personnel*

Shri N. B. Patel, B.E. (Civil), A.M.I.E. worked as University Engineer during the period from the 1st to the 30th April, 1961 and proceeded on leave prior to return to his parent (Public Works) Department, Government of Gujarat. Shri B. B. Nanavaty, B.E. (Civil) A.M.I.E. (India), M.R.H.S. (London) has been appointed as Officiating University Engineer with effect from the 1st May, 1961. He continued to hold the charge of the post during the year under report. He has been assisted by a Deputy Engineer, 3 Assistant Deputy Engineers, 51 Class III and 51 Class IV Servants.

(2) *Original Works completed*

The following original works were completed during the year under report :—

	Description of the work	*Expenditure on the building or work during the year*	*Total expenditure on the building or work upto the 31st March, 1962*
		Rs.	*Rs.*
I.	**University General Fund :**		
(i)	Constructing the building of the 3rd Gujarat Battalion, N. C. C.	1,53,323=32	1,98,744=82
(ii)	Compound wall to the North East of Tara Nivas	17,039=05	28,074=18
(iii)	Construction of 5 Professors' Quarters and 5 Garrages for Professors coming through the Ford Foundation	2,64,888=38	2,65,024=88
(iv)	Building (Additions and alterations) for the Technology Section including Cycle Shed compensation for land	90,199=73	9,78,222=98
(v)	Constructing three hostels under Polytechnic	5,42,377=36	17,45,029=61
(vi)	Constructing three Readers' Quarters near Polytechnic Hostel No. 1	48,259=42	69,798=03
(vii)	Extension to the Building of the Faculty of Home Science	1,30,961=29	1,61,980=32
(viii)	Cycle Sheds in the Baroda College area	40,986=07	43,074=74

UNIVERSITY LIBRARY BARODA. COLLECTION

	Description of the work	*Expenditure on the building or work during the year*	*Total expenditure on the building or work upto the 31st March, 1962*
		Rs.	*Rs.*
(ix)	Cycle Sheds for the Polytechnic	3,547=65	16,038=90
(x)	Additions of a Room on the Ground Floor as well as on the First Floor and removing the stair outside in the Shevantibag Bungalow	14,382=71	14,382=71
(xi)	Constructing 24 Servants' Quarters in the Compound of University Office	1,11,443=91	1,11,543=41
(xii)	Providing Drainage Connection and roads in the Readers' Quarters Colony in Pratapganj	7,999=26	7,999=26
(xiii)	Constructing a Cycle Shed in the Compound of University Press	5,556=52	5,556=52
(xiv)	Constructing a Sump for the Hydraulics Laboratory for Polytechnic Building	6,735=55	6,735=55
II	**Works of Grants :**		
(i)	Polytechnic Building	3,492=10	13,51,471=28
(ii)	Extension of the Faculty of Science	1,032=62	4,66,431=30
(iii)	Constructing a Building for Students Health Centre	42,069=04	75,697=63
(iv)	Constructing additional wing to Social Sciences Block	1,681=91	1,60,765=17
(v)	Extension of the Building of the College of Indian Music, Dance and Dramatics	—	1,32,163=54
(vi)	Constructing First Floor over Seminar Building	1,034=15	59,586=61
(vii)	Construction of one Reader's Quarter near Polytechnic Hostel No. I	16.086=47	23,266=00
(viii)	Construction of 4 Readers' Quarters behind Vikrambag Bungalow	83,873=60	1,03,949=07
(ix)	Construction of 8 Lecturers' Quarters	1,00,820=48	1,40,348=12

Smt. HANSA MEHTA LIBRARY THE M. S. UNIVERSITY OF BARODA

	Description of the work	Expenditure on the building or work during the year	Total expenditure on the building or work upto the 31st March, 1962
		Rs.	Rs.
(x)	Construction of 4 Lecturers' Quarters near Polytechnic Hostel No. 2	50,350=24	67,975=61
(xi)	Construction of 8 Lecturers' Quarters	62,495=26	1,43,476=31
(xii)	First Floor over Painting Studio for Extension of the Departments of Painting and Sculpture, Faculty of Fine Arts	1,09,247=42	1,34,083=50
(xiii)	Constructing Mazzanine Floor and additions and alterations in the existing Exhibition Hall, Faculty of Fine Arts	23,861=69	41,363=79
(xiv)	Constructing a new building for Non-Resident Students' Centre	1,38,292=69	1,38,428=06
(xv)	Extension of the building of the Faculty of Science for Physics and Geography Departments	1,68,045=94	2,01,423=38
*(xvi)	Constructing a building for the Department of Co-operation	44,518=08	49,376=08
*(xvii)	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	73,235=01	92,374=17
III.	**Special Heavy Repairs:**		
(i)	Realignment of Approach road to Nizampura village near Polytechnic Building	1,212=83	4,722=53
IV.	**Depreciation Grant:**		
(i)	Renewal of the Wire fencing on the Nala near the Faculty of Science	5,423=89	5,423=89

* These works are completed during the year 1961-62. The Final Bills remain to be paid.

	Description of the work	Expenditure on the building or work during the year	Total expenditure on the building or work upto the 31st March, 1962
		Rs.	Rs.
(ii)	Removing the earthy Flooring and redoing the same with new materials in the High School Block, Faculty of Arts	1,818=83	1,818=83
(iii)	Renewing Floor on the Ground Floor of Seminar Building	1,086=83	1,086=83

(3) *Works in Progress :*

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

I.	**University General Fund :**		
(i)	Water supply scheme for University Campus	55,664=70	2,23,859=61
(ii)	University Office Building	2,23,357=72	3,81,468=55
(iii)	VIth Hall of Residence for Students	3,38,294=57	3,38,394=07
(iv)	Providing Service Stair-case, Storage and washing place for New Readers' Quarters (A & B Blocks)	4,891=01	4,891=01
(v)	Cycle Sheds for the Faculty of Home Science	4,113=98	4,113=98
(vi)	Providing North light roof to Furniture Shed in the Workshop Faculty of Technology and Engineering	10,383=77	10,383=77
(vii)	Constructing an Ajwa Water sump for storage and pumping in the existing line for bushing up the supply near the Vth Hall of Residence for Men Students	4,463=61	4,463=61
II.	**Works of Grants :**		
(i)	Building for General Education Centre (Grant from Ford Foundation)	3,52,133=82	9,42,822=81
(ii)	Third Hall of Residence for Women Students	3,07,447=88	3,48,086=45
(iii)	Construction of 8 Readers' Quarters	94,161=97	94,161=97

Description of the work	Expenditure on the building or work during the year	Total expenditure on the building or work upto the 31st March, 1962
	Rs.	Rs.
III. Works of Depreciation Grant :		
(i) W.I. Gates for Faculties of Arts, Science and Education and Psychology	6,507=09	6,507=09
(ii) Tile flooring in drawing rooms of the Residential Quarters	28=00	28=00

Some Additional Expenditure was incurred on the following Works completed last year :

I. Works of Grants :		
(i) New Building for the Department of Archaeology and Ancient History	60=00	2,63,912=00
(ii) Additions and alterations in the Library of the Faculty of Technology and Engineering	132=72	7,560=50
(iii) Constructing First Floor over Work Shop of the Faculty of Education and Psychology	4=11	20,254=25
(iv) Vivarium for Zoology Department, Faculty of Science	25=94	12,484=77

The total expenditure on Capital Works during the year under report was 37,68,017=27.

(4) *Ordinary and Special Repairs :*

The works of ordinary and special repairs were carried out throughout the year as per requirements of the University Office and the different Faculties and Institutions. The total expenditure on repair works during the year under report was Rs. 67,830=85 and Rs. 1,00,018=67, for Ordinary Repairs and Special Repairs respectively. The entire estate and all the gardens except the Botanical Gardens in Baroda College area were looked after and maintained by the Construction Division.

9. Examination Reform and Research Unit

The Examination Reform and Research Unit was established on the 2nd August, 1960. It is financed by the University Grants Commission and the Government of Gujarat under their Special Schemes Programme. The staff of the Unit consists of an Officer-in-Charge, a Psychometrician, two Research Assistants and a typist-cum-clerk.

Major concern for the Unit, as far as the research in Examinations proper is concerned, is (i) to evolve objective tools with tested merits for screening the students at the time of admissions and (ii) to evolve and test the procedures for the objective evaluation of the educational achievement. Research work has been done on the following problems :—

(1) Variation in and Relationship between Student Performance in Paper Examination and Class Records.

(2) An Empirical Study of Student Performance on Examination Questions.

(3) Relative Efficiency of Scaled and Unscaled Marks in Predicting Future Marks in the Subject.

A full report of the above three studies has been included in the Research Monograph 1 – Empirical Studies in Examinations published by the University. The Unit has also taken up the scheme 'Studies in Prediction of Success in Higher Education'. The technical report based on the results of this study is under preparation.

Other publications of the members of the staff of the Unit are as under :—

S. No.	Name of the author	Title	Where published
1.	Shri T. P. Lele	Scaling of Marks	Shikshana Bharati, June, 1961
2.	Shri P. M. Patel	Planning Research in Indian School of Psychology	Journal of Education and Psychology, Vol. 18, No. 4, 1961

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 presided over many social functions in and outside the University, some of which are mentioned below :

(a) Attended the Special Meeting of the India International Centre at New Delhi on the 24th April, 1961 ;

(b) Presided over the Tenth Anniversary of the Colombo Plan under the joint auspices of the M. S. University Planning Forum and the Field Publicity Organisation, Ministry of Information and Broadcasting, Government of India at Baroda on the 1st July, 1961 ;

(c) Met the Finance Commission at Ahmedabad on the 6th September, 1961 ;

(d) Attended the Standing Committee Meeting of the Inter-University Board of India at Madras on the 17th November, 1961 ;

(e) Attended the meeting of the Court of the Indian Institute of Science as a Member Representative of the Inter-University Board of India at Bangalore on the 19th September, 1961 ;

(f) Attended the Third Meeting of the State Executive Committee of University Planning Forums at Sachivalaya, Ahmedabad on the 24th September, 1961 ;

(g) Attended the All India University Vice-Chancellors' Conference at New Delhi on the 28th and the 29th October, 1961 ;

(h) Attended a meeting of the Standing Committee of the Inter-University Board of India at Bhubaneshwar on the 19th December, 1961 ;

(i) Attended a meeting of the Joint Committee of the Court and the Court of the Indian Institute of Science of Bangalore at Bombay on the 21st December, 1961 ;

(j) Attended the Meeting of the Administrative Board of a Seminar under the Joint auspices of the Inter-University Board of India, the India International Centre and the International Association of Universities, at Madras on the 12th, 13th and the 14th February, 1962 ;

(k) Attended the Special and the 37th Annual Meetings of the Inter-University, Board of India, at the Sri Venkateshwar University, Tirupati on the 15th, the 16th and the 17th February, 1962 ;

(l) Attended the General Assembly Meeting and the Meeting of the Court of the Indian Institute of Science at Bangalore on the 29th March, 1962 ;

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

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

(a) Sub-Committee of the Gujarat State Industrial Research at Baroda on the 25th April, 1961 ;

(b) Gujarat State Industrial Research Committee at Ahmedabad on the 6th July, 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 I. P. Desai, M.A., Ph.D. (Bom.)
Science	Professor N. M. Bhatt, M Sc. LL.B. (Bom.), Ph.D. (Edin), F.S.S.
Education and Psychology	Professsor S. N. Mukerji, M.A., A.M. (Columbia), B.T., T.D. (London), Dip. Edu. (Dublin), Dip. Edu., Ed.D. (Columbia)
Commerce	Professor B. G. Shah, M.Com. (Bom.)
Medicine	Dr. J. D. Pathak, B.Sc., M.D., F.C.P.S. (Bom.)

Faculty	*Name of the Dean*
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 and Kansas)
Social Work	Professor (Shrimati) Ammu M. Muzumdar, B.A. (Hons.), L.T. (Madras), M.A. (Chicago), D.S W. (Columbia)
Law As special officer from 14-6-1961	Shri H. C. Dholakia, M.A. LL.B. (Bom.), LL.M. (Cornell)

(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, Sanskrit Mahavidyalaya
(iv)	Shri K. S. Yagnik, M.A., B.T.	Head, Preparatory Unit
(v)	Professor C. H. Khadilkar, B.E. (Civil), A.M.I.C E. (London)	Principal, Polytechnic
(vi)	Shri G. P. Bhatt, B.A., B.T., M.Ed.	Principal, University Experimental School

2. Authorities

(1) *The Senate:*

The Senate consisted of 90 members. The term of office of the ordinary members ended on the 14th September, 1961 and elections were held to elect new members. The changes in the membership of the Senate were as under:

(i) The following persons ceased to be the members of the Senate:

1 Shri B. J. Patel
2 Shri H. K. Desai
3 Shri M. D. Rajpal
4 Shri T. A. Desai
5 Shri S. A. Patel
6 Shri H. C. Dholakia
7 Professor S. M. Sethna
8 Shri M. N. Chokshi
9 Professor S. M. Sen
10 Professor N. N. Chaudhary
11 Shrimati Amita B. Varma
12 Shri S. K. Majmudar
13 Shri J. D. Thaker
14 Shri S. V. Bhattbhatt
15 Professor S. K. Roy
16 Shri N. N. Makati
17 Dr. D. P. Patel
18 Shri H. R. Desai
19 Shrimati Induben Desai
20 Shri M. C. Dayamakumar
21 Shri I. C. Patel
22 Shri P. J. Patel
23 Shri S. A. Sabnis
24 Shri K. S. Bhatt
25 Shri A. C. Shah
26 Shri R. M. Raval
27 Dr. D. G. Vyas
28 Shri G. A. Kamtekar
29 Dr. M. S. Shah
30 Dr. V. Sarabhai
31 Shrimati Gulbai Wadia
32 Shrimati Indira V. Bhanot
33 Dr. N. R. Desai
34 Shri R. G. Saraiya

(ii) The following persons became members of the Senate:

1 Shrimati Indumati Chimanlal
2 Shri D. L. Sharma
3 Shri S. K. Katrak
4 Shri A. P. Mehta
5 Professor M. B. Desai
6 Professor U. N. Singh
7 Dr. H. L. Dholakia
8 Shri B. N. Pancholy
9 Kumari P. S. Chari
10 Shri G. G. Dadlani
11 Shri M. J. Bhatt
12 Shri L. J. Zha
13 Shri R. C. Patel
14 Shri J. A. Pandya
15 Dr. S. H. Zaveri
16 Shri M. D. Patel
17 Shri N. S. Patel
18 Shri N. D. Chokshi
19 Shri U. M. Patel
20 Shri C. G. Bhatt
21 Shri S. S. Shukla
22 Shri C. K. Trivedi
23 Shri B. G. Contractor
24 Dr. M. A. Patel
25 Dr. M. D. Avasare
26 Shri P. C. Hathi
27 Shri V. R. Ambedkar
28 Dr. (Shrimati) Leela C. Shah
29 Shri J. C. Shroff
30 Shrimati Manu Desai
31 Shri J. M. Thakore
32 Shri V. H. Bhanot
33 Shrimati Leenaben Mangaldas

(2) The Syndicate:

The Syndicate consisted of 15 members. Shri H. R. Desai ceased to be a member of the Syndicate on the 15th September, 1961 on his ceasing to be the Fellow of the Senate. Shri N. D. Chokshi was elected to the Syndicate on the 22nd October, 1961. Shri M. D. Rajpal relinquished the office of the Director of Education on the 15th February, 1962. Shri D. L. Sharma assumed the office of the Director of Education and became an ex-Officio member of the Syndicate. The following persons continued to be/became the members of the Syndicate:

(1) Dr. Jyotindra M. Mehta, Vice-Chancellor
(2) Dr. C. S. Patel, Pro-Vice-Chancellor
(3) Shri M. D. Rajpal, Director of Education (upto 14-2-1962)
Shri D. L. Sharma, Director of Education (from 15-2-1962)
(4) Dr. (Shrimati) Hansa Mehta
(5) Dr. B. B. Yodh
(6) Shri B. B. Joshi
(7) Shri J. S. Parikh
(8) Shri D. M. Parikh
(9) Shrimati Ansuya I. Amin
(10) Shri H. R. Desai (upto 14-9-1961)
Shri N. D. Chokshi (from 22-10-1961)
(11) Professor I. P. Desai
(12) Professor S. N. Mukerjee
(13) Professor N. M. Bhatt
(14) Dr. T. V. Patel
(15) Professor P. J. Madan

CHAPTER III—THE SENATE

1. Number of meetings

The Senate met twice during the year on the 22nd October, 1961 and the 25th March, 1962.

2. Attendance

66 members attended the meeting held on the 22nd October, 1961 and 63 members on the 25th March, 1962.

3. First meeting

At the meeting of the Senate held on the 22nd October, 1961, the following business was transacted:

(1) Shri N. D. Chokshi was elected to the Syndicate under section 23 (2) (v) of the Act vice Shri H. R. Desai.

(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.	Shri V. H. Bhanot	Faculty of Arts
2.	Dr. T. V. Patel	Faculty of Medicine
3.	Professor R. C. Mehta	Faculty of Fine Arts
4.	Professor N. S. Bendre	College of Indian Music, Dance and Dramatics
5.	Shri V. H. Bhanot	Preparatory Unit

(3) Fellows were assigned to their respective Faculties.

(4) Questions of Shri J. A. Pandya and Shri B. G. Contractor regarding the establishment of Industrial Estate and Visiting teachers respectively were answered.

(5) Renewal of lapsed grants amounting to Rs. 47,973 in the revenue budget and Rs. 5,63,802 in the capital budget, and supplementary grants amounting to Rs. 1,41,048 in the revenue budget and Rs. 1,70,557 in the capital budget were sanctioned.

(6) Statute 91 was amended by

(i) deleting the figures and words '13 Law, 3 to 5 members' under the heading 'I Faculty of Arts',

(ii) deleting the figures and words '2 Architecture, 3 members' under the heading 'IX Faculty of Fine Arts',

(iii) adding the figure and words '3 Architecture, 3 to 5 members' after figure and words '2 Engineering, 5 to 9 members' under the heading 'IV Faculty of Technology and Engineering'.

(7) Statute 199 was amended by

(i) deleting the figure and words '7 Bachelor of Architecture (B.Arch.)' under the heading 'In the Faculty of Fine Arts',

(ii) adding the figure and words '6 Bachelor of Architecture (B.Arch.)' after the figure and words '5 Bachelor of Textile Technology (B.Text. (Tech.))' under the heading 'In the Faculty of Technology and Engineering',

(iii) adding the following new heading and figures and words after the degrees in the Faculty of Technology and Engineering:

'In the Faculty of Law'

1. Master of Laws (LL.M.)
2. Bachelor of Laws (LL.B.).

(8) Ordinances relating to the examinations, syllabi, standard of passing and exemptions for the various examinations, passed by the Syndicate for the (i) Faculty of Arts, (2) Faculty of Medicine, (3) Faculty of Home Science and (4) Faculty of Social Work (Hand-book Part III 1960) were considered and passed.

(9) (a) The Twelfth Annual Report and the Twelfth Annual Accounts of the University for the year 1960-61 were passed.

(b) The excess expenditure over the revised estimates for the year 1960-61 was also sanctioned.

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

Faculty of Science

Lecturer in Mathematics

Faculty of Technology and Engineering

Readers in Electrical Engineering (Electronics)

Faculty of Law

Reader in Law

Faculty of Fine Arts

Lecturer in Applied Arts

Faculty of Home Science

Lecturer in Child Development

4. Second Meeting

At the second meeting of the Senate (Annual meeting) held on the 25th March, 1962, the following business was transacted:

(1) Dr. C. S. Patel was unanimously elected Pro-Vice-Chancellor for another period of three years from the 1st May, 1962.

(2) Shri Chandravadan Chimanlal was elected to the Board of Visitors for the Faculty of Commerce.

(3) The following fellow was reassigned to the Faculties mentioned against her name:

S. No.	*Name*	*Ex-officio/elected/ nominated*	*Faculty/Faculties*
1.	Shrimati Leenaben Mangaldas	Nominated	Education and Psychology and Fine Arts

(4) The Annual Financial Statement comprising the revised estimates for the year 1961-62 and estimates for the year 1962-63 were considered and passed.

(5) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 1 of Hand-book Part II 1961 were considered and passed.

(6) The report of the Board of Accounts for the year 1960-61 was approved.

(7) The Senate resolved that the Chairman, Secondary School Certificate Examination Board be made an ex-officio member of the Senate by amendment of the Maharaja Sayajirao University of Baroda Act.

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

Faculty of Arts

(i) Lecturer in German
(ii) Lecturer in Russian

Faculty of Science

Lecturer in Statistics

Faculty of Commerce

Lecturer in Business Administration

Faculty of Law

(i) Professor of Law
(ii) Reader in Law

(9) The designation of the following instituted posts in the Faculty of Commerce was amended as mentioned against each :

S.No.	*Present Designation*	*New Designation*
(i)	Lecturer in Business Organisation	Lecturer in Banking
(ii)	Lecturer in Accounts	Lecturer in Commerce
(iii)	Reader in Economics of Growth	Reader in Economics

XI Annual Convocation : The Registrar declaring the award of degrees

CHAPTER IV—THE SYNDICATE

1. Number of meetings

During the year the Syndicate held ten meetings in which they considered and passed resolutions on 857 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 O=Ordinary S=Special*	*Present*	*Absent*	*Remarks*
1	Dr. Jyotindra M. Mehta, Vice-Chancellor	10	O. 3 S. 7	O. 3 S. 7	—	
2	Dr. C. S. Patel, Pro-Vice-Chancellor	10	O. 3 S. 7	O. 3 S. 7	—	
3	Director of Education or his nominee	10	O. 3 S. 7	O. 1 S. 7	O. 2 S. –	
4	Dr. (Shrimati) Hansa Mehta	10	O. 3 S. 7	O. 2 S. 2	O. 1 S. 5	
5	Dr. B. B. Yodh	10	O. 3 S. 7	O. 2 S. 5	O. 1 S. 2	
6	Shri B. B. Joshi	10	O. 3 S. 7	O. 3 S. 5	O. – S. 2	
7	Shri J. S. Parikh	10	O. 3 S. 7	O. 3 S. 4	O. – S. 3	
8	Shri D. M. Parikh	10	O. 3 S. 7	O. 3 S. 6	O. – S. 1	
9	Shrimati Ansuya I. Amin	10	O. 3 S. 7	O. – S. 7	O. 3 S. –	
10	Shri H. R. Desai	4	O. 1 S. 3	O. – S. 3	O. 1 S. –	Ceased to be a member from 14-9-1961
11	Shri N. D. Chokshi	5	O. 2 S. 3	O. 2 S. 3	—	Became member from 22-10-1961

S. No.	Name	No. of meetings held	Class of meetings O=Ordinary S=Special	Present	Absent	Remarks
12	Professor I. P. Desai	10	O. 3 S. 7	O. 3 S. 7	—	
13	Professor S. N. Mukerjee	10	O. 3 S. 7	O. 3 S. 7	—	
14	Professor N. M. Bhatt	10	O. 3 S. 7	O. 3 S. 7	—	
15	Dr. T. V. Patel	10	O. 3 S. 7	O. 2 S. 5	O. 1 S. 2	
16	Professor P. J. Madan	10	O. 3 S. 7	O. 3 S. 7	—	

3. New developments and improvements in the existing departments

The Ordinances and rules regarding Scholarships, Fellowships, Research Fellowships and Studentships were amended. Merit scholarships in the Diploma classes in the Faculties of Technology and Engineering and Fine Arts were raised from Rs. 5, 7 and 8 p.m. to Rs. 10, 15 and 20 p.m. respectively. 20 Post-graduate merit scholarships and 18 Fellowships were abolished, and 56 Post-graduate Research scholarships of Rs. 60 p.m. each, 10 Post-graduate scholarships for Ph.D. students of Rs. 150 p.m. each were also introduced.

The temporary posts of one Stenographer, one Head Clerk, two Senior Clerks, one Clerk and three Class IV servants were made permanent in the University Office.

Provision for instruction in Hindi for the teachers was continued during the year. During the year 77 teachers were learning Hindi. The elementary examination was held in November, 1961 and seven teachers appeared. All of them passed and two got first class. The second elementary examination was held in March, 1962. Ninteen teachers appeared and out of them two got first class and one passed with credit. Classes for Higher Examination in Hindi were also started during the year.

A new "Bindary Unit" was started in the Library. It consisted of one Binder and two Attenders.

In the Faculty of Arts the post of a Lecturer in Politics was converted into that of a Reader. A water cooler was installed in the Ladies Common Room. Dr. S. S. Bhave was invited as Honorary Professor in the Department of Sanskrit during the year. In the Department of Archaeology and Ancient History Professor G. Wain Wright was appointed as Professor of Environmental Archaeology.

In the Faculty of Science new posts of a Laboratory Assistant, a Laboratory Attendant and a Clerk were created. The Statistical Service Unit was also continued during the year.

In the Faculty of Education and Psychology one new post of a Lecturer in Education was created and one temporary post of a Lecturer was made permanent. The post of a Professor of Psychology was created and filled up in the Faculty. An amount of Rs. 8,000 was specially sanctioned for audio-visual apparatus and other teaching aids. In the University Experimental School, the grades of the teachers were revised and a new post of a Graduate Trained Teacher in Fine Arts was created.

In the Faculty of Commerce new posts of a Reader and a Lecturer in Co-operation and a Lecturer in Economics were created.

In the Faculty of Technology and Engineering new posts of a Reader in Engineering Geology and a Demonstrator in Geology were created. The post of a Senior Laboratory Assistant in Electrical Engineering was created.

In the College of Indian Music, Dance and Dramatics two posts of Ustads and three posts of accompanists were created. The grade of Ustads was also revised from Rs. 80-5-150-EB-10-200 to Rs. 100-10-150-EB-10-200.

In Baroda Sanskrit Mahavidyalaya the grades of Adhyapaks and Assistant Adhyapaks were revised from Rs. 150-10-250 to Rs. 150-10-300 and Rs. 55-130 to Rs. 80-5-150.

In the Halls of Residence a post of a Head Clerk was created by abolishing the post of an Attender.

4. Honorary Professors

The provision for inviting eminent scholars and experts in specialized branches of knowledge as Honorary and Visiting Professors and Lecturers was continued during the year. The following were invited or continued:

(a) Honorary Professors:

	Name	Subject	Faculty/Institution
(i)	Professor C. C. Mehta	Dramatics	College of Indian Music, Dance and Dramatics

	Name	Subject	Faculty/Institution
(ii)	Professor V. L. Devkar	Museology	Faculty of Fine Arts
(iii)	Professor L. B. Shastri	Aesthetics	Faculty of Fine Arts
(iv)	Professor S. S. Bhave	Sanskrit	Faculty of Arts
(v)	Professor H. T. Muzumdar	Social Work	Faculty of Social Work
(b) Honorary Lecturers:			
(i)	Shrimati Mirabai Badkar	Vocal Music	College of Indian Music, Dance and Dramatics

5. Research Assistants, Research Scholarships, etc.

During the year, 1 Research Officer, 10 Research Investigators and 13 Research Assistants were working in the University under various research schemes in progress.

Under the revised rules for Research Scholarships for Ph.D. students, three students were awarded the scholarships by the University during the year.

6. Additional Grants for Research

In addition to the amount sanctioned in the Revenue Budget and grants received from the Government and from 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 as under:

Department/ Faculty		*Particulars*	*Amount sanctioned Rs.*
1		2	3
Economics	(i)	Survey of Consumer's Finance in Baroda	2,600
	(ii)	Village Survey	3,700
	(iii)	Field Work	500
Gujarati	(i)	Scheme of Publication of Critical Edition of Old Gujarati Text	5,300
	(ii)	Publications of the Late Professor B. K. Thakore	2,235

1		2	3
History		Research in Muslim History of Gujarat	2,850
Sanskrit		Publication of translation of the Ninth Mandal of the Rgveda	2,200
Sociology		For contingency, field work, traineeship and publication	11,700
Politics		Research on 'Leadership in an Indian Village'	6,100
Hindi		Contingencies, T. A. and publications	5,900
Science		Purchase of equipment, fine chemicals, contingencies for various research schemes	16,747
Education & Psychology	(i)	Apparatus, equipment, T. A., printing, publication, etc.	4,600
	(ii)	Study and editing of the important educational records of the Baroda State under Maharaja Sayajirao Gaekwad	4,300
	(iii)	Survey and Evaluation of the Administration of School System in India	2,400
	(iv)	To calculate norms on 'Phatak's Draw-a-man Test for Indian Children' for Children in Gujarat	250
Technology and Engineering		Study and Analysis of Tajmahal	660
College of Indian Music, Dance and Dramatics		Bibliography of Drama	4,764
General		Publication of research papers etc.	5,000
Archaeology and Ancient History		Excess amount to be borne by the University over the recurring grant sanctioned by the University Grants Commission	55,773
Museology		Excess amount to be borne by the University over the sanctioned grant from the University Grants Commission	32,098
		Total:	1,69,677

CHAPTER V—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research met thrice during the year on the 1st August and 28th November, 1961, and the 19th March, 1962 and considered in all 57 items referred to it.

The following are some of the main items considered and recommended by the Council and approved subsequently by the Syndicate:

(1) Research Schemes:

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

Title of the Scheme	*Conducted by*
(i) Parties, Factions and Interest Groups in Indian Politics	Shri R. F. Kothari, Reader in Political Science, Faculty of Arts
(ii) Compilation and Publication of a Select Bibliography for the History of Gujarat under the East India Company	Dr. V. K. Chavada, Offg. Reader and Head, Department of History, Faculty of Arts

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

Title of the Scheme	*Conducted by*
(i) Synthesis and Study of Ion Exchange Compounds	Dr. S. L. Bafna, Reader in Physical Chemistry, Faculty of Science
(ii) Urinary Sulphur Excretion (iii) Skin Temperature and Dress Habits, etc.	Dr. J. D. Pathak, Dean, Faculty of Medicine

N.B.:—Schemes Nos. (ii) and (iii) are continued further for a period of 6 months *i.e.* upto 30-6-1962. This did not involve any additional provision of finance over and above what was already sanctioned.

Title of the Scheme	*Conducted by*
(iv) Study of the effects of some growth regulating substances on Cotton Sorghum, Wheat, etc.	Dr. C. H. Pathak, Reader in Botany, Faculty of Science
(v) Studies on the Isolation of suitable Algae required for Sewage purification	Jointly by (1) Professor A. R. Chavan, Professor in Botany, Faculty of Science (2) Professor C. H. Khadilkar, Professor of Civil Engineering and Principal, Polytechnic (3) Shri V. K. Shah, Lecturer in Biochemistry, Faculty of Science
(vi) Metal Chelates of Oximes	Dr. A. M. Talati, Lecturer in Chemistry, Faculty of Science
(vii) Study of the development of Transport and the rise of towns in Gujarat	Shrimati V. A. Janaki, Head, Department of Geography, Faculty of Science
(viii) The effect of Protein Malnutrition on Mental Development and Intelligence in rats	Professor C. V. Ramakrishnan, Head, Department of Biochemistry, Faculty of Science
(ix) Structural Investigation of High grade metamorphic rocks	Dr. S. S. Merh, Reader in Geology, Faculty of Technology and Engineering

(c) The Council recorded the progress reports of the following Research Schemes which were completed:

Title of the Scheme	*Conducted by*
(i) Assessment of the results of Abdominal Puerperal Sterilisation operations in the Females, performed at the S. S. G. Hospital, Baroda during the period of ten years (1949-1958)	Dr. R. D. Pandit, Honorary Assistant Obstetrician and Gynaecologist, S. S. G. Hospital, Medical College
(ii) Calculation of norms on 'Phatak's Draw-a-Man Scale for Indian Children' for children in Gujarat	Dr. (Smt.) P. Phatak, Reader in Education, Faculty of Education and Psychology

(2) The Council recorded the 20th and 21st half yearly progress reports of the Critical Editions of Old Gujarati Texts (Prachin Gurjar Granthmala).

(3) The Council recommended that (i) The National Sugar Institute, Kanpur and (ii) The Public Health Laboratory, Baroda be recognised for carrying on research by the students of the University for the Ph.D. Degree of this University and also recommended recognition of five members of the staff of these two institutions for guiding the research work.

(4) The Council recommended the recognition of 10 more teachers as Post-graduate teachers in different subjects.

(5) The Council recommended for approval the revised rules relating to Post-graduate Studies (For Faculties other than the Faculty of Medicine).

All the above recommendations were subsequently approved by the Syndicate.

2. Faculties

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

Sr.No.	*Name of the Faculty*	*Date/s of the meeting/s*
(i)	Arts	28-1-1962
(ii)	Science	28-1-1962
(iii)	Education and Psychology	9-10-1961
(iv)	Commerce	27-1-1962

Sr.No.	*Name of the Faculty*	*Date/s of the meeting/s*
(v)	Medicine	8-10-1961
(vi)	Technology and Engineering	28-1-1962
(vii)	Fine Arts	27-1-1962
(viii)	Home Science	25-9-1961 and 27-1-1962
(ix)	Social Work	16-10-1961
(x)	Law	10-9-1961 and 27-1-1962
(xi)	Joint meeting of the Faculties of Arts, Science and Commerce	27-1-1962
(xii)	Joint meeting of the Faculties of Arts and Commerce	28-1-1962
(xiii)	Joint meeting of all Faculties	27-1-1962

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

(a) *Faculty of Arts* :

(i) Approved the revised courses of each of the three Kakshas with text books in the Baroda Sanskrit Mahavidyalaya ;

(ii) Revised the courses in English for various classes in the Faculty of Technology and Engineering and the Polytechnic ;

(iii) Revised the list of themes for the B.A. Special Papers II to V ;

(iv) Decided to include Psychology in the list of " Allied subjects " which can be offered as a minor subject at S.Y.B.A. with English as a Major subject ;

(v) Decided to exempt M.A. failed students in Sociology from resubmitting their Research Reports (Dissertations) and to carry forward their marks if the candidates have obtained at least 40% marks thereat ;

(vi) Approved the scope for the practical syllabus for Physical Anthropology Paper II of Group C for M.A. (Archaeology) Examination ;

(vii) Decided to allow candidates offering at F.Y.B.A., Psychology, Philosophy or Sociology to offer 'Education' as a minor subject in S.Y.B.A.

(b) *Faculty of Science :*

(i) Appointed a Committee consisting of the Dean, Faculty of Science, the Dean, Faculty of Medicine, and the Chairman of the relevant Boards of Studies with a view to prepare a set-up for M.Sc. examination in two parts ;

(ii) Approved the proposal to add 'Solid State Physics' as an additional special group at the M.Sc. Physics examination ;

(iii) Amended O. Sc. 29, O. Sc. 34 of the Three Year B.Sc. Degree Course.

(c) *Faculty of Education and Psychology :*

(i) Approved the rules, courses etc. for the Diploma in Early Childhood Education ;

(ii) Amended Ordinance No. 390 and No. 391 (3) and (4) regarding the B.Ed. Part II examination ;

(iii) Amended O. 375 regarding admission qualifications for the T. D. examination ;

(iv) Amended the syllabi, etc. of the M.Ed. Degree Course to be started from the academic year 1962-63 as a full two-year degree course ;

(v) Amended O. 383 regarding admission qualifications for the B. Ed. examination.

(d) *Faculty of Commerce :*

(i) Amended O. Com. 1, 3 and 5 meant for Post-graduate Diploma in Co-operation and referring to its admission requirement, holding of examination, etc.

(ii) Amended O. Com. 32 (b) so as to make its provisions applicable to the B.Com. examination with effect from the examination of March-April, 1962 ;

(iii) Introduced a provision for submission of a dissertation in lieu of an optional group at the M.Com. examination and framed rules therefor ;

(iv) Introduced Co-operation as an additional optional group (Group IX) of two papers of 100 marks each at M.Com. and approved the syllabus etc. therefor.

(e) *Faculty of Medicine :*

(i) Decided to give preference to medical graduates for M.Sc. degree course in medical subjects and to take up non-medical graduates provided facilities are available in the Departments.

(f) *Faculty of Technology and Engineering :*

(i) Approved certain modifications in the ordinances, syllabi, scheme of examinations, etc., prescribed for the existing Diploma, Degree and Post-graduate courses in Civil, Mechanical and Electrical Engineering and for the post-graduate courses making a provision for Soil Mechanics as an independent group ;

(ii) Revised the existing scheme of examination and the syllabi for the M.E. Degree in Mechanical Engineering (Internal Combustion Engineering) ;

(iii) Amended O. TE. 39, O. TE. 46, O. TE. 47, O. 621 and O. 630 ;

(iv) Approved the drafts of transitory O. TE. 39A and O. TE. 46A.

(g) *Faculty of Fine Arts :*

(i) Eliminated the category of casual students as far as Faculty of Fine Arts (*viz.* Painting, Sculpture and Applied groups) is concerned ;

(ii) Decided that the title of subject of Design in Architecture Examinations, be declared by the Head of the Department of Architecture one week before the date of starting the various Faculty and University examinations ;

(iii) Decided that the II Year B.Arch. Examination (Elementary Examination in Architecture) be conducted by the Faculty from examinations of March-April, 1963 and onwards ;

(iv) Made a provision for practical training to students of Museology in organising museums, in the present syllabus of Museology ;

(v) Decided to amend O. 270 regarding class record, with a view to include the provisions for class records for Degree and Diploma courses of the College of Indian Music, Dance and Dramatics ;

(vi) Decided that the implementation of the new courses in Dramatics (Degree and Diploma) which were to be effective from 1962 examinations be dropped.

(h) *Faculty of Home Science*:

(i) Revised the syllabi in Child Development at the B.Sc. (Home), M.Sc. (Home) and the Post-graduate Diploma in Nursery School Education;

(ii) Introduced two new courses viz. (a) Rural Sociology and (b) Curriculum Development in the scheme of courses for the subject of Home Science Education and Extension for the M.Sc. (Home);

(iii) Introduced a course in Economics in the Fourth Semester of the B.Sc. (Home) course from June, 1962;

(iv) Recognised B.Sc. (Home) of Madras University as equivalent to B.Sc. (Home) examination of this University for purposes of admission to M.Sc. (Home) course of this University on reciprocal basis.

(i) *Faculty of Social Work*:

(i) Approved the curriculum and reading list for the years 1962-64;

(ii) Revised the methods of calculation of final grades for preparations of merit list at the Final M.S.W. examination.

(j) *Faculty of Law*:

(i) The first meeting of the Faculty during the year was held on the 10th September, 1961 and the syllabi, the scheme of examination, the standard of passing and grading, etc., for the First LL.B. as well as Second LL.B. courses were finalised. An important feature of the qualification for admission is that not only the graduates in Arts, Science or Commerce but also the graduates of Medicine, Engineering, Technology and Agriculture are considered eligible for admission to the LL.B. course.

(ii) At the second meeting of the Faculty held on the 27th January, 1962, certain amendments made to the syllabus of B.A. Law (Major) course was approved.

(k) *Joint Faculties of Arts and Commerce*:

(i) Decided not to allow Law, Psychology or Philosophy to be offered as allied subject at S.Y.B.A. Examination with Economics as major subject.

(l) *Joint Faculties of Arts, Science and Commerce*:

(i) Decided in principle to introduce one year Post-graduate Diploma course in Statistics for B.A. and B.Sc. pass students;

(ii) Decided to consider holders of B.A. degree with Geography or Mathematics as a major subject admissible to M.Sc. degree course in Geography or Mathematics/Statistics respectively.

(m) *Joint meeting of all the Faculties*:

(i) Decided that the minimum age

(a) for admission to the Preparatory courses and the First Year in the degree courses where admission qualification is the passing of the S.S.C. Examination or an equivalent examination, be 15 *plus* years and

(b) for admission to the First Year in the Degree course where the admission qualification is the passing of the Preparatory (Pre-University) or equivalent examinations, be 16 *plus* years.

It was further decided that the crucial date for completion of the minimum age prescribed in each case be the first day of the second academic term of the year of admission concerned in the University.

It was decided to implement part (a) of the above resolution from the academic year 1962-63 and part (b) from the academic year 1963-64.

3. Boards of Studies

There are 39 Boards of Studies. Their meetings were held in the year as shown below:

S.No.	*Name of the Board*	*Date/s of the meeting/s*
(i)	Sanskrit, Pali and Ardhamagadhi Languages and Literature	21-9-1961
(ii)	Persian, Urdu and other Asian Languages and Literature	28-9-1961
(iii)	Hindi Language and Literature	4-12-1961
(iv)	Gujarati Language and Literature	28-9-1961

S.No.	Name of the Board	Date/s of the meeting/s
(v)	Marathi Language and Literature	29-9-1961
(vi)	English Language and Literature	19-8-1961
(vii)	Sociology	13-9-1961
(viii)	History, Archaeology and Ancient Indian Culture	12-9-1961
(ix)	Philosophy	3-10-1961
(x)	Linguistics	23-10-1961
(xi)	Library Science	5-10-1961
(xii)	Law	23-11-1961
(xiii)	Physics and Meteorology	10-9-1961
(xiv)	Chemistry	18-10-1961
(xv)	Botany	7-10-1961
(xvi)	Zoology	20-11-1961
(xvii)	Bio-chemistry	13-10-1961
(xviii)	Education	7-10-1961
(xix)	Psychology	5-1-1962
(xx)	Banking and Business Finance	9-10-1961
(xxi)	Accounts	9-10-1961
(xxii)	Commerce including Business Administration	1-10-1961
(xxiii)	Anatomy and Physiology	3-10-1961
(xxiv)	Pharmacology and Pathology	8-10-1961
(xxv)	Medicine, Surgery and Midwifery, etc.	7-10-1961
(xxvi)	Technology (Textile)	8-10-1961
(xxvii)	Engineering	25-9-1961
(xxviii)	Painting, Sculpture and Applied Arts	25-9-1961
(xxix)	Architecture	21-11-1961
(xxx)	Music, Dance and Dramatics	20-10-1961
(xxxi)	Museology	18-11-1961
(xxxii)	Home Science	2-12-1961
(xxxiii)	Social Work	27-11-1961
(xxxiv)	Mathematics	25-9-1961
(xxxv)	Statistics and Actuarial Science	20-11-1961
(xxxvi)	Geography	16-10-1961

S.No.	Name of the Board	Date/s of the meeting/s
(xxxvii)	Economics	26-9-1961
(xxxviii)	Politics and Administration	19-10-1961
(xxxix)	Geology	18-11-1961
(xxxx)	Joint Engineering and Technology	18-8-1961

The items of business at the meetings of the Boards consisted of drawing up of panels of examiners, consideration of reports of examiners, revision of syllabi, prescription of text-books for various courses, etc. 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

The work done by some of the other Boards and Committees during the year is mentioned below :

1. University Board of Sports

Two meetings of the Board of Sports were held during the year. The Board approved selection of teams in Cricket, Hockey, Foot Ball, Volley Ball, Tennis, Badminton, Kho-Kho (Men and Women), Wrestling, Boxing, Athletics, Swimming, Table-Tennis, etc. to be sent to participate in the Inter-University Tournaments. A Committee was appointed to organise and conduct the All India Inter-University Hockey Tournament (Women) to be held under the auspices of this University in January, 1962 at Baroda. Coaches were appointed to train University Cricket, Hockey (Men and Women) and Kho-Kho (Men and Women) teams. Facilities of change rooms were made available for men and women swimmers at the University Swimming Pool.

2. Students Welfare Board

The Board met once during the year on the 16th August, 1961. It reviewed the report about the students welfare activities during the previous year. The Board recommended that (i) students should be advised to use boiled water for drinking as far as possible and should be asked not to drink water drawn from bath-room taps ; (ii) the timings of the visits of the Medical Officer be properly notified for the information of the new students of the Halls of Residence and (iii) servants employed in kitchen and the mess be got medically examined periodically and those who have any infections and/or contagious disease be removed at once, and that this be done when the Health Centre is established and a full time Medical Officer becomes available.

3. Publication Board

The Publication Board met once during the year on the 23rd August, 1961. The Board considered and recommended to the Syndicate, the publication of the following works by the University:

S.No.	*Title*	*Estimated Cost* Rs.
(i)	Statistical Summary of the Medical Inspection Reports for 1960-61	750

S.No.	*Title*	*Estimated Cost* Rs.
(ii)	Wastage and Stagnation in the Faculties of Technology and Engineering and Medicine	750
(iii)	Vikramankabhyudaya of Calukya Somesvara	—
(iv)	Translation of Mirat-e-Ahmedi	—
(v)	Yavanajataka of Sphujicharaja and Yavanajataka Minaraja	—
(vi)	Practical Manual for Nursery School Procedures	1,200
(vii)	A new approach towards History in Social Studies	800
(viii)	Children's illustrated book size 10″ × 9″ with six coloured plates	3,000

4. Board of Extra Mural Studies

The Board met once on the 12th September, 1961. 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:

S.No.	*Name of the Faculty/Institution*	*Amount* Rs.
(i)	Faculty of Arts	1,000
(ii)	Faculty of Science	1,000
(iii)	Faculty of Education and Psychology	850
(iv)	Faculty of Commerce	500
(v)	Faculty of Medicine	1,300
(vi)	Faculty of Technology and Engineering	1,400
(vii)	Faculty of Law	300
(viii)	Faculty of Fine Arts	500
(ix)	Faculty of Home Science	600
(x)	Faculty of Social Work	300
(xi)	Preparatory Unit	400
(xii)	College of Indian Music, Dance and Dramatics	250
(xiii)	Baroda Sanskrit Mahavidyalaya	300

5. Library Committee

The Committee met twice during the year on the 11th September, 1961 and the 10th March, 1962. At the meeting held on the 11th Sep-

tember, 1961, the Committee recommended the increase of annual Book Grant of the University from Rs. 20,000 to Rs. 30,000 from the year 1961-62. It also re-allocated the Book Grants in view of this recommended increase. The Committee also recommended some amendments in the Ordinance 39 regarding the functions of the Library Committee. The diploma class students of the College of Indian Music, Dance and Dramatics were also allowed the use of the library facilities. At the meeting held on the 10th March, 1962, the Committee recommended Standing Vendors for the purchase of books and periodicals during the ensuing year. The general directives for the book order work and the conditions of executing the orders were also approved.

6. Building and Planning Committee and University Building Committee

A meeting of the University Building and Planning Committee was held on the 24th October, 1961. 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.

7. 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 it to the local as well as out-station students on request.

(1)	Total number of books (Calenders, Handbooks, Bulletins, Pamphlets, etc.) in the beginning of the year *i.e.* on the 1st April, 1961	2,180
(2)	Handbooks, Calenders, etc. added during the year	640
(3)	Handbooks, Calenders, etc. transferred to Shrimati Hansa Mehta Library during the year	695
(4)	Circulars pertaining to conditions of admission, scholarships, short and long term courses run by various Universities, etc. forwarded to the Colleges and Faculties	88

The Bureau supplied information pertaining to higher studies in India and abroad to 438 persons who called at the University Office personally during the period under report and replied 250 querries from out-station students.

The Bureau forwarded during the year 17 applications for admissions to Institutions and Universities in U. K. and secured admissions for most of them through the High Commissioner in London.

8. Standing Committee on Equivalence of Examinations

The Committee met twice during the year on the 1st August, 1961 and on the 14th December, 1961. It considered the questions on equivalence of various examinations and cases of eligibility of students referred to it. It recommended amendment of O. 167 with a view to considering the students passing the Matriculation or Entrance Examination of the Statutory Indian Universities with 'English' as one of the subjects, eligible for admission to this University even though they have not passed the said examination through a school recognised by the University concerned, or by the Government.

9. Board of Visitors

Meetings of the Boards of Visitors for the Faculties of Arts, Science, Education and Psychology, Commerce, Technology and Engineering, Home Science, Social Work, Preparatory Unit, Polytechnic and Oriental Institute 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 Arts:* The Board met on the 26th September, 1961 and recommended that (i) Linguistics be introduced as a subject at the F.Y.B.A.; (ii) Prakrit be introduced as a minor subject at the S.Y.B.A.; (iii) the principle of instituting a Master's Course in Library Science be accepted and that (iv) the University Grants Commission be approached for creation of the posts of Reader in International Relations, Professor of Philosophy and Reader in Marathi as well as for additional building requirements like class-rooms and necessary equipment for the Linguistics Department.

(b) *Faculty of Science:* The Board met on the 21st November, 1961. It recommended that (i) a new post of Demonstrator in Cartography be created in the Geography Department; (ii) a new post of Lecturer in Statistics be created for the teaching of Industrial Statistics in the Faculty of Technology and Engineering and (iii) a new post of an Attender of the grade of Rs. 40-3-70 be created in the Statistics Department for looking after the calculating machines.

(c) *Faculty of Education and Psychology:* The Board met on the 22nd November, 1961. It recommended that the University Grants

Commission be approached to create the following new posts to cope up with the increased work on account of revision of M.Ed. course from one to two years:

(1) Professor of Curriculum
(2) Reader in Basic Education
(3) Reader in Audio-Visual Education
(4) Reader in Administration for Comparative Education.

(d) *Faculty of Commerce:* The Board met on the 20th November, 1961. It recommended that the following new posts be created in the Faculty to strengthen the existing staff and post-graduate instructions and that the University Grants Commission be approached for the same:

(1) Lecturer in Business Administration
(2) Lecturer in Economics (Industrial Relations)
(3) Reader in Accounts (Cost Accounting)
(4) Lecturer in Accounts (Cost Accounting).

(e) *Faculty of Technology and Engineering:* The Board met on the 22nd November, 1961. The proposal of the Dean to start the Five Year Degree Course in Chemical Engineering subject to the approval of the Government of Gujarat was noted. It was decided that the Five Year Integrated Courses in Civil, Mechanical, Electrical, Textile Engineering and Textile Technology be started in the Faculty subject to the approval of matching grants from the Government of Gujarat.

(f) *Faculty of Home Science:* The Board met on the 29th September, 1961. It recommended that (i) the Master's Course in Home Management be instituted; (ii) the University Grants Commission be approached to sanction the following staff for Post-graduate teaching in the Faculty:

Department	*Posts*
(1) Child Development	One Professor, two Lecturers and one Research Assistant
(2) Home Science Education	One Professor and two Lecturers
(3) Clothing and Textiles	One Reader and two Lecturers
(4) Home Management	One Professor, one Reader and two Lecturers.

(iii) a new post of Library Attender of the grade of Rs. 40-3-70 be created; (iv) the Animal House of the Bio-chemistry Department be made available to the Department of Food and Nutrition for research and

instructional purposes; (v) the necessary amounts be provided for additional equipments required by different departments, in the Budget as per the recommendation of the Budget Committee and (vi) an amount of Rs. 3,000 be sanctioned for the Furniture requirement of the Faculty.

(g) *Faculty of Social Work:* The Board met on the 29th September, 1961. It recommended that the Principal, Medical College, be requested to arrange for the training of a suitable person in Medical Psychology and that the possibility of inviting a Psychiatrist from abroad under teacher exchange programme be explored.

(h) *Preparatory Unit:* The Board met on the 25th September, 1961. It recommended that (i) the preparatory year be treated as the Foundation Year for the three year degree courses, and as such more tutorial and class work be given rather than lectures; (ii) fifty percent of the teachers assigned for work in the Preparatory Unit be given at least 10 periods per week in order that continuity and interest in teaching be maintained at the preparatory classes and (iii) modern techniques of Examination be tried out at least for a period of two to three years at the Preparatory stage.

(i) *Oriental Institute:* The Board met on the 26th September, 1961. It recommended that (i) the Oriental Institute should develop as a Post-graduate and Research Centre in the University with a scheme of co-ordination between the activities of the Institute and the Department of Archaeology and Ancient History; (ii) the Department of Sanskrit be helped by the experts in Sanskrit grammar on the staff of the Oriental Institute; (iii) the study and teaching of Prakrit be introduced at B.A. and M.A. level; (iv) the Indology Committee and the Ministry of Scientific Research and Cultural Affairs be approached for grants for publication of works on Indology (except Hindi and Sanskrit) and (v) steps be taken to prepare a compilation of the Inscriptions of Gujarat.

(j) *Polytechnic:* The Board met on the 12th January, 1962. It recommended that (i) the vacant posts of a Lecturer in Industrial Organisation and a Demonstrator in Mechanical Engineering be filled up; (ii) the Government of India be approached through the Western Regional Committee and the University Grants Commission and requested to approve the grant of additional funds of Rs. 2,26,765 over and above the amount of Rs. 10,82,000 sanctioned by the University Grants Commission for the Polytechnic to meet the cost of additional equipment and that

(iii) the possibility of re-distribution of the present numbers of admissions *i.e.* 180 for Civil, 60 for Mechanical and 60 for Electrical to 100 for Civil, 100 for Mechanical and 100 for Electrical be explored.

10. Committee to Select Wardens

The Committee held two meetings—one on the 12th April, 1961 and the other on the 14th July, 1961—and recommended 9 teachers for appointment as Wardens for various Halls of Residence.

11. Wardens' Committee

There were in all four meetings of the Wardens' Committee held during the year on the 29th April, 22nd September, 18th October, 1961 and the 7th February, 1962.

The allocations of seats for men and women students in Halls of Residence were made. The procedure for Hostel accommodation was modified. Under the revised procedure the students are required to apply to the Deans and Heads for admission in the Halls. The budget for the year 1962-63 and the revised budget for the year 1961-62 were prepared. The General Rules for the Halls of Residence were revised and the Mess rules were approved.

12. Advisory Committee for the Halls of Residence

The Committee met once during the year on the 1st October, 1961. The report of the Secretary, Wardens Committee regarding the admissions in the first term of the year was noted. The Committee recommended the revised procedure of admission to Halls of Residence. Under the revised procedure the students are required to apply to the respective Dean or Head for admission to the Halls of Residence.

13. 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 20th January, 1962. It submitted to the Syndicate the revised estimates for the year 1961-62 and the estimates for the year 1962-63 after scrutinising various proposals received from the Faculties, Institutions and Offices of the University.

14. Investment Committee

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

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

Three meetings of the Committee for General Education and Preparatory Courses in Arts, Science and Commerce were held during the year on the 5th July, 1961, 13th September, 1961 and the 12th January, 1962. The Committee recommended appointment of three Sub-committees for General Education courses in Social Sciences, Humanities and Natural Sciences. Sub-committees for different courses were also appointed by the Committee. The functions of the Committees were to recommend courses of study, books for study, to prepare panels of examiners and to give opinion on matters pertaining to courses of studies referred to it by the main Committee. The programme and topics for the General Education were approved. The reports and recommendations of the Sub-committees to plan out the General Education Syllabus and teaching arrangements were approved. The Committee also recommended that Art Practice be introduced from June, 1962.

16. Selection Committees

During the period from the 1st April, 1961 to the 31st March, 1962 there were 15 meetings of the Selection Committees appointed under section 48(2) of the Act and the Committees recommended 22 candidates for appointment to the posts of Professors and Readers including 2 Lecturers. There were also 79 meetings of the Selection Committee for Junior Posts and 6 meetings of the Selection Committee for Class III Posts. 158 and 97 candidates respectively were recommended by these Committees for appointment to different posts in the University.

17. Shri Sayaji Sahityamala Publications Committee

The Committee met once during the year on the 12th July, 1961 and considered one recommendation by circulation. The Committee considered the question of publishing some books and recommended the books 'मानवसर्जित वस्त्रतंतुओ' by Shri P. R. Shah for publication. The Committee also permitted Sarvashri V. P. Dandekar and Ramanlal Soni to publish second editions of the Books 'मराठी साहित्यांची रूपरेखा' and 'श्री समर्थ रामदास' respectively.

The Committee also referred the proposal for publication of 'भवाईना वेषनी वार्ताओ' by Shri B. B. Mehta and 'आधुनिक गुजरातना संतो' by Shri K. A. Thakkar to experts for their opinion.

18. Press Supervisory Committee

The Committee held ten meetings during the year. 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 Publications Sales Unit.

19. Baroda Sanskrit Mahavidyalaya Committee

There were two meetings of the Committee on the 3rd July, 1961 and the 7th February, 1962. The Committee considered the revised scheme of the Government of India regarding the re-organisation of Sanskrit Education in Pathashalas, and prepared a scheme for the re-organisation of Baroda Sanskrit Mahavidyalaya in the light of the scheme received from the Government. The scheme was forwarded to the Government of India for their consideration.

20. Sheth Ujamshi Pitambardas Ayurvedic Research Unit Committee

The Committee met once during the year. The Committee reviewed the set-up and the activities of the Unit and considered in detail the schemes for research. The Committee recommended the continuation of the Out-Patient Department for one year more and also recommended to the Syndicate the appointment of a High Power Committee to review the set-up of the Unit, etc. The recommendations of the High Power Committee which met twice during the year were approved by the Syndicate.

21. Deans' Committee

The meeting of the Deans of Faculties and the Heads of Institutions was held once during the year on the 22nd August, 1961. The Committee recommended the amendment of Tuition fees, etc. A panel of persons to be invited for Mahatma Gandhi Memorial Lectures during the next year was recommended. A proposal for the observance of the National Plan Week was recommended for approval. A Sub-committee was appointed to review the terms, vacations and holidays in the University. Ways and means were discussed to make the stay of foreign students more comfortable in the University.

22. Students' Aid Fund Committee

During the year one meeting of the Committee was held on the 17th September, 1961. It considered the applications of students of various Faculties and Institutions of the University for financial assistance from the Students' Aid Fund and made awards totalling Rs. 15,647 for tuition fees, examination fees, books etc.

23. Planning Forum

The University Planning Forum celebrated the National Plan Week instead of National Plan Day as desired by the Planning Commission during the month of October, 1961. A symposium covering various aspects of Planning in India was arranged as a part of celebrations. The Symposium was presided over by Dr. J. M. Mehta, Vice-Chancellor of this University. Besides, an Inter-Faculty Students' Debate, a Students' Essay Competition, Educational trip to Dabka village, Plan Exhibition and Film Show were also arranged during the celebrations. Three prizes worth Rs. 25, Rs. 15 and Rs. 10 for the best performances at the debate and one prize of Rs. 10 for the best Essay were also awarded in the form of Prize Bonds. In December, 1961 two research schemes of Shrimati D. P. Pandit and Dr. J. C. Sandesara were forwarded to the State Executive Committee of University Planning Forums at Ahmedabad for consideration.

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 10th year of its publication. There is an Advisory Board for the Journal which is divided into three parts *viz.* Humanities, Social Sciences and Natural Sciences. Separate Editorial Boards are constituted. Professor V. Y. Kantak, Professor M. B. Desai and Professor U. N. Singh are the editors of the Humanities Number, the Social Sciences Number and the Natural Sciences Number respectively.

2. During the year Post-graduate and research work was done in almost all Faculties and Institutions under the University. 143 students registered for Ph.D. and 22 students registered for M.Ed. degree by research during the previous years continued their research. Details about the 47 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 (19)		
1	A. H. Bhatt	11-7-1961	Shri K. S. Desai	Political Science	Some aspects of the working of administration of a Community Development Block
2	S. R. Chaudhary	11-7-1961	Professor B. Subbarao	Archaeology	Archaeology of Punjab
3	P. B. Shukla	18-7-1961	Shri H. C. Mehta	Sanskrit	Bhagwat Rasadarshnam Shrimad Bhagavatasya Sahityadrashtya Samiksha (The Literary study of Shrimad Bhagvatam)
4	S. N. Pendse	28-7-1961	Professor S. S. Bhave	Sanskrit	A critical study of Sayanacarya's Rgbhasya I 1-25 (with special reference of Panini's Grammar)

Sr. No.	*Name*	*Date of Registration*	*Name of the Guiding teacher*	*Subject*	*Title of the Thesis*
1	2	3	4	5	6
5	J. R. Pathak	3-8-1961	Shri J. S. Pade	Sanskrit	Shiva Maha Puran—A critical study
6	M. R. Joshi	17-8-1961	Professor G. H. Bhatt	Sanskrit	Vishnu Purana—A critical study
7	R. A. Vakil	4-9-1961	Shri K. S. Desai	Political Science	Some aspects of Union State Relations in India
8	G. L. Vaidya	6-9-1961	Dr. V. P. Dandekar	Marathi	A critical survey of short essays in Marathi Literature
9	Kumari S. G. Munshi	15-9-1961	Dr. V. P. Dandekar	Marathi	A critical survey of one-act plays and short plays in Marathi Literature
10	H. G. Chaturvedi	5-12-1961	Professor C. P. Singh	Hindi	Mahakavi Nirala—Jivani aur Kavya
11	P. G. Pathak	14-12-1961	Professor I. S. Gulati	Economics	Saving behaviour in an urban community with special reference to Baroda City
12	D. L. Sheth	23-12-1961	Professor I. P. Desai	Sociology	Factory workers in Baroda—A Sociological Study
13	P. K. Parikh	9-1-1962	Dr. R. M. Patel	Gujarati	V. M. Shah—A critical study (1878-1931)
14	K. T. Hegde	16-1-1962	Professor B. Subbarao	Archaeology	Certain technical studies in Ancient Indian Ceremics
15	R. R. Sharma	17-1-1962	Professor G. H. Bhatt	Sanskrit	System of Shuddhadvaita Vedanta
16	R. N. Teckchandani	19-1-1962	Professor B. Subbarao	Archaeology	History of coinage in Gujarat upto 1300 A.D.
17	L. M. Desai	9-3-1962	Dr. R. M. Patel	Gujarati	Contribution of Shri Shreyasadhak Adhikari Varga to Literature and Culture of Gujarat
18	R. J. Bhamidipati	23-3-1962	Professor B. Subbarao	Archaeology	Iron age in India
19	M. D. Pandit	26-3-1962	Dr. A. N. Jani	Sanskrit	Paninian Phonology

Sr. No.	Name	Date of Registration	Name of the Guiding teacher	Subject	Title of the Thesis
1	2	3	4	5	6
			Faculty of Science (18)		
1	C. C. Gujarathi	1-7-1961	Dr. R. V. Joshi	Physics	Optical properties of Luminescent materials
2	Kumari F. D. Bokdawala	13-7-1961	Professor J. C. George	Zoology	Histophysiological investigations on the muscle tissue
3	Kumari N. J. Chinoy	13-7-1961	Professor J. C. George	Zoology	Studies in the structure and Physiology of vertibrate muscle
4	K. C. Patil	14-7-1961	Professor C. V. Ramkrishnan	Biochemistry	Studies on Mold Metabolism
5	L. J. Parekh	14-7-1961	Professor C. V. Ramkrishnan	Biochemistry	Studies in Plant Metabolism
6	Antony Abraham	9-9-1961	Professor C. V. Ramkrishnan	Biochemistry	Studies on germinated Tamarind
7	P. A. Parimoo	23-9-1961	Dr. C. M. Mehta	Chemistry	Studies in the synthesis of some heterocyclic compounds
8	S. D. Bhalerao	9-10-1961	Professor C. V. Ramkrishnan	Biochemistry	Bio-chemical studies on tibiac
9	G. V. Shah	16-11-1961	Professor U. N. Singh	Mathematics	Functional Analysis
10	R. M. Garga	24-11-1961	Professor A. R. Chavan	Botany	Studies on some plant viruses and virus diseases of plant in Madhya Pradesh
11	K. R. Govindrajan	24-11-1961	Professor C. V. Ramkrishnan	Biochemistry	Studies on Rat Brain
12	T. I. Patel	4-12-1961	Dr. A. M. Talati	Inorganic Chemistry	Transition Metal Complexes
13	A. P. Balasubramaniam	23-12-1961	Professor N. S. Pandya	Physics	Optical studies on Metal Crystals
14	P. M. Desai	15-1-1962	Dr. A. M. Talati	Organic Chemistry	Transition Metal Complexes with Nitrogen Ligands

Sr. No.	Name	Date of Registration	Name of the Guiding teacher	Subject	Title of the Thesis
1	2	3	4	5	6
15	G. P. Parikh	31-1-1962	Dr. J. S. Dave	Chemistry	Liquid Crystals
16	N. M. Vashi	1-2-1962	Dr. S. S. Merh	Geology	Geology of the area around Pilkholi (Rahikhel, District Almora) with special reference to its structural and metamorphic history
17	N. N. Kakde	2-2-1962	Professor N. S. Pandya	Physics	Optical studies on Etched surface of Crystals
18	A. C. Menon	10-3-1962	Dr. R. V. Joshi	Physics	Optical and Related Properties of the Luminescent materials
			Faculty of Education and Psychology (7)		
1	J. M. Oza	25-6-1961	Professor L. J. Bhatt	Psychology	Revision of different aptitude tests for Higher Secondary Schools
2	J. P. Banerjee	28-8-1961	Professor S. N. Mukerji	Education	Training of Primary Teachers in India
3	J. J. Mody	23-9-1961	Professor M. S. Patel	Education	A Comparative Study of English and Gujarati Syntaxes
4	N. M. Bhagia	17-11-1961	Dr. (Shrimati) P. Phatak	Education	Study of the Problem of School Adjustment and Developing an Adjustment Inventory
5	G. B. Shah	17-11-1961	Shri T. P. Lele	Education	Construction and standardisation of a non-verbal group test of intelligence with special reference to the Gujarat State (for children of age group 7-13)
6	Sahib Shaukat Ali Kasim Sahib	2-12-1961	Professor S. N. Mukerji	Education	Education reorganisation in Fizi Islands
7	C. Z. Shah	12-12-1961	Shri T. P. Lele	Education	A study of the Superior Children in the State of Gujarat

Sr. No.	Name	Date of Registration	Name of the Guiding teacher	Subject	Title of the Thesis
1	2	3	4	5	6
			Faculty of Commerce (2)		
1	R. D. Pandya	21-4-1961	Dr. D. K. Shukla	Economics	Economic Development and monetary phenomena in under-developed countries
2	D. N. Shukla	10-2-1961	Dr. D. K. Shukla	Economics	Prices in a developing Economy with Special Reference to India (in the Post-war period)
			Faculty of Medicine (1)		
1	B. N. Dixit	1-3-1962	Dr. O. D. Gulati	Pharmacology	Studies on Substance 'P'

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 *Gujarati :*	
(a) Shri I. A. Dave	A critical study 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
2 *Sanskrit :*	
(a) Professor S. S. Bhave	Completed the work on the difficult Hymns viz. 67, 68, 69 and 70 of the IX Mandala of Rgveda and Prepared the Press copy of Volume III of the Soma Hymns Further work on Hymns 71, 72, 73 and 74 is going on. Press copies are ready. This rough work of Hymns 9-75-85 is ready. The Preparation for Vol. IV is going on.

Name of the Department and the teacher	*Subject of Research*
(b) Dr. A. N. Jani	(i) Raskaumudi (ii) An edition of Rupaka—Sataka and a book on Sriharsa
(c) Dr. S. G. Kantawala	(i) Geographical and Ethnic Data and other problems of the Matsyapurana (ii) A study of Soma Rgvedic words (iii) A book on Bana for Sayaji Sahityamala Series
3 *Economics :*	
Shri H. P. Chokshi	Growth and Scope of Corporate Taxation in India
4 *Philosophy :*	
(a) Dr. A. G. Javadekar	(i) Applications of Axionoetics (ii) Comparative Vedanta
(b) Kumari S. H. Divetia	Role of Symbols in Philosophy, Science and Literature
5 *Political Science :*	
Shri R. F. Kothari	(i) Writing a Chapter on Gujarat (ii) Preparing a paper on 'Recent Political change in India'
6 *History :*	
Dr. V. K. Chavda	Reading of the History of Gujarat by one Col. Willium Miles written in 1820
Faculty of Science	
1 *Bio-chemistry :*	
(a) Professor C. V. Ramkrishnan	(i) Studies in Tissue Culture (ii) Studies in Intermediary Metabolism in Plants and Moulds (iii) Studies in Human Lactation
(b) Dr. V. V. Modi	Biosynthesis of Carotenoids in Moulds and Plants

Name of the Department and the teacher	Subject of Research
2 *Botany:*	
(a) Professor A. R. Chavan	(i) Sedges of Gujarat (ii) Morphogenesis of Cucurbitaceae and Passifloraceae (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 Suresh 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 Bicoumarinyl 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 Compounds
(e) Dr. A. M. Talati	Chelate Compounds
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) Trigonometric Series

Name of the Department and the teacher	Subject of Research
6 *Physics:*	
(a) Professor N. S. Pandya	(i) Optical Studies of Etched Surfaces of Metal and Alloy Crystals (ii) Study of Growth and Etch Phenomena in Crystals
(b) Dr. R. V. Joshi	Study of Luminescene in Crystals
7 *Statistics:*	
(a) Professor N. M. Bhatt	Problems in Mathematical Statistics
(b) Shrimati Indira Bhanot	(i) Study of Medical Inspection Reports (ii) Wastage and Stagnation in University
(c) Dr. C. G. Khatri and Shri B. K. Shah	(i) Problems in Curve-Fitting and Distributions (ii) Problems in Mathematical Statistics
8 *Zoology:*	
(a) Professor J. C. George	(i) Development Physiology (ii) Structure and Physiology of Muscle (iii) Avian Biology (iv) Raphelian Anatomy and Physiology
(b) Dr. R. V. Shah	(i) Raphelian Anatomy and Physiology (ii) Vertebrate Embryology

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 Dept.:*	
Professor (Kumari) Justina A. Singh	A Cook Book Receipies 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
Faculty of Social Work	
1 *Social Work:*	
Shri G. G. Dadlani	Survey of Social Work Education in India (as preparation for work in the field) Research report published in August, 1961
College of Indian Music, Dance and Dramatics	
1 *Music:*	
Professor R. C. Mehta	(Scheme : Indian Music ; its Legend History and Heritage) Agra Gharana Tradition and Chijas
2 *Drama:*	
Professor C. C. Mehta	Bibliography of Drama
Baroda Sanskrit Mahavidyalaya	
(a) Principal H. C. Mehta	(i) Kavya Mimamsa of Rajashekhar with translation, introduction and critical notes in Gujarati
	(ii) Critical Study of Jagannatha
(b) Shri L. J. Zha	Jyotish Tatwa—Ancient Work on Astrology with a commentory in Sanskrit
(c) Shri S. V. Bhattbhatt	Arthasangrah of Laugakshi Bhaskar with commentary and introduction

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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 Economics and Agricultural Economics are housed on the top floor of the Social Sciences Block, which also houses the Faculty of Commerce. The Departments of Archaeology and Ancient History and Sociology have shifted to their new buildings nearby. After the renovation of the Seminar building the ground floor has been occupied by the Department of Gujarati and the first floor by the Department of Political Science. Two rooms on the first floor of the west wing of the building are being used for the office of the Preparatory Unit; and since the functioning of the Law Faculty from June, 1961 two more rooms have been given to the Faculty of Law for use of its office.

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 and Mathematics

(3)	M.A. (Sub.)	Linguistics
(4)	B.A. (Sub.) and M.A. (Sub.)	Pali, Urdu
(5)	B.A. (Prin.) and B.A. (Sub.)	Law
(6)	B.A. (Sub.)	Education
(7)	Post-graduate Diploma	Library Science
(8)	Certificate	German Language

A Certificate course in German was introduced from June, 1961. German classes have been conducted at the Faculties of Arts, Technology and Engineering and Commerce (1st Semester only). A Certificate Course in German was started in the Faculty of Arts and it was attended by 20 students. At the Faculty of Technology and Engineering and Faculty of Commerce (1st Semester), voluntary classes of two hours per week were conducted for a larger number of students. There was also a compulsory class for M.E. students of the Faculty of Technology and Engineering as they are required to study German language.

4. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1961-62 was as under:

Class	*Men*	*Women*	*Total*
Certificate Course in German Language	18	6	24
F.Y.B.A.	178	138	316
S.Y.B.A.	188	106	294
T.Y.B.A.	181	115	296
Diploma in Library Science	8	6	14
Junior M.A.	63	30	93
Senior M.A.	68	29	97
Ph.D.	17	1	18
Total:	721	431	1152

5. Staff

During the year the staff of the Faculty consisted of 9 Professors, 18 Readers, 48 Lecturers, 16 Tutors, 2 Part-time Teachers, 1 Curator, 1 Excavation Assistant, 21 Class III (including Technicians) and 18 Class IV

servants. Teachers of the Faculty also carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in their courses.

6. Museum Laboratories and Studios

This year Dr. G. J. Wainwright, who has been appointed as Professor of Environmental Archaeology took charge in August, 1961. The British Council gave him the travel grant under the Commonwealth University Interchange Scheme. Under the same scheme Shri A. C. Patel, Lecturer in Geology, was deputed to London for further training in Environmental Archaeology.

The newly set-up Environmental Laboratory started working with the study of Pleistocene Sea Levels in the Gulf of Cambay. Professor Wainwright continued the work on the Mahi river started by Professor F.E. Zeuner, and also extended the studies into the Narbada basin. Very important results have been obtained.

The third season of the excavation work at Shamalaji (Devanimori) was started in November, 1961 and was completed by the end of the year. To correlate the age and stratigraphy a trench was laid at the town site of Shamalaji near the main temple. The fortifications have been studied and dated to the Kshatrapa period.

The following is the statement of the cost of equipment:

Sr. No.	*Item*	*Cost of equipment as on 1-4-1961* Rs.	*Cost of equipment written off during the year* Rs.	*Cost of equipment added during the year* Rs.	*Cost of equipment as on 31-3-1962* Rs.
1	Museum	4,533=98	—	—	4,533=98
2	Studio	13,809=96	—	—	13,809=96
3	Excavation equipment	1,184=35	—	—	1,184=35
4	Drawing equipment ..	1,806=75	—	—	1,806=75
5	Deadstock	43,758=26	—	4,715=69	48,473=95
6	U.G.C. (N.R.) equipment ..	77,834=57	—	—	77,834=57
	Total:	1,42,927=87	—	4,715=69	1,47,643=56

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 1961-62:

(1) *Articles or Papers:*

	Name		*Title*	*Name of the Journal wherein published*
1	Professor B. Subbarao	(i)	Archaeology and Anthropology in India	D. N. Majmudar Commemoration Vol., Lucknow
		(ii)	Rise of Magadha in Indian History and Archaeology	Journal of the Oriental Institute, 1961
2	Professor G. J. Wainwright	(i)	Report on the Soil Samples from a Neolithic Stone Implement Factory on Mynydd Rhiw	Proceedings Pre-historic Society, London-27, pp. 139-141
		(ii)	Report on the Soil Samples from along mortuary enclosure on Normanton down, Wilts	Proceedings Pre-historic Society, London-27, pp. 171-173 (with Cornwall, I. W.)
3	Dr. R. N. Mehta	(i)	Place names in Baroda	Journal of M. S. University of Baroda, 1961
		(ii)	Pichhvais in Baroda Museum	Baroda Museum Bulletin
		(iii)	Pavijetpur, Jointly with B. L. Mankad	Baroda Museum Bulletin
4	Shri K. T. M. Hedge		Indian Murals, their Scientific examination and preservation	Journal of the M. S. University of Baroda (Humanities), Vol. X, No. 1, April, 1961
5	Shri Y. A. Raikar	(i)	A hundred years of Archaeology	Sunday Standard, Bom.-26, November, 1961
		(ii)	The Archaeological Survey of India—Its work and achievements	The Lokasatta (Marathi), Bombay, October, 1961
6	Shri A. J. Patel		Puratatvani Arasima Gujaratana Vasano	'Kumar', Ahmedabad, 1961
7	Professor V. Y. Kantak		"Tolstoy's Ivan Ilych—An Approach"	The Literary Criterian, Mysore
8	Shri D. D. Mahulkar	(i)	The Language of T. S. Eliot's "Burnt Norton"	Journal of the M. S. University of Baroda, April, 1961

	Name		*Title*	*Name of the Journal wherein published*
		(ii)	The Study of Language	Kshitij, Gujarati Monthly, November, 1961 and January, 1962
9	Professor A. H. Somjee		Motivations and Propaganda	The Seminar—Our Democracy, January, 1962
10	Shri R. F. Kothari	(i)	"Form and Substance in Indian Politics"—a Series of six articles	The Economic Weekly, Vol. XIII, Nos. 17-23, 29th April to 10th June, 1961
		(ii)	Meanings of Democracy	Quest, October, 1961
		(iii)	Developing Political Pattern	Seminar, February, 1962
		(iv)	India's Political Take-off	The Economic Weekly, Annual Number, 1962
11	Shri P. J. Shah		Prospects of Democracy in Asia	M. S. University Journal of Social Sciences Number, July, 1961
12	Dr. (Smt.) J. M. Panchanadikar		Indian Rural Society under the Impact of Planned Development	Sociological Bulletin, Vol. XI, Nos. 1 and 2, Decennial Celebration Symposium Number of the Indian Sociological Society titled as "Nature and Extent of Social Change in India"
13	Dr. K. C. Panchanadikar		Determinants of Social Structure and Social Change in India	Sociological Bulletin, Vol. XI, Nos. 1 and 2, Decennial Celebration Symposium Number of the Indian Sociological Society titled as "Nature and Extent of Social Change in India"
14	Kumari S. J. Shahani	(i)	Sociological Research—A Note	The Economic Weekly, 22nd April, 1961
		(ii)	The Joint Family—A Case Study	The Economic Weekly, 9th December, 1961
15	Dr. A. G. Javadekar	(i)	Analysis of Creativity	Philosophical Quarterly, Amalner, January, 1962
		(ii)	सृजनशीलता	Darshanika, April, 1961
16	Kumari S. H. Divatia	(i)	Jung and Freud	Vishwamanav, September-October, 1961
		(ii)	अस्तित्ववाद—अेक समीक्षा	Kshitij, February, 1962

	Name		Title	Name of the Journal wherein published
17	Dr. S. G. Kantawala	(i)	Matsyapurana and Promiscuity	Purana Bulletin (Varanasi), Vol. III, No. 2, July, 1961
		(ii)	Are the Linguyatana Aradhyas referred to in the Matsyapurana?	Journal of the M. S. University of Baroda (Humanities), Vol. X, No. 1, April, 1961
		(iii)	वेदकालिको धर्मः विहंगावलोकनम् (in Sanskrit)	सरस्वती सोरभम् October, 1961
18	Professor I. S. Gulati	(i)	The Analysis of Public Expenditure	The Economic Weekly, June, 1961
		(ii)	The Growth of Capital Expenditure	The Economic Weekly, July, 1961
		(iii)	Tax Privileges of Princes	The Economic Weekly, February, 1962
19	Dr. J. C. Sandesara		Choice of Techniques—Facts from Industry Life	Journal of the Gujarat Research Society, Bombay, April, 1961
20	Shri H. P. Chokshi	(i)	Transport Planning in the Third Plan	The Economic Times, August, 1961
		(ii)	Financing of Corporate Sector	The Economic Weekly, September, 1961
21	Shri R. Kumar	(i)	Balance of Payments and Economic Development	Indian Economic Journal, April, 1961
		(ii)	Compensatory Official Financing—A Restatement	Economia—Internationale: Geneva, May, 1961
		(iii)	Monetary Policies of Western Germany, 1960	Journal of Institute of Bankers, July, 1961
		(iv)	Free Trade Area in Asia	The Economic Weekly, March, 1962
22	Shri R J. Mody		A Note on Income Distribution in Baroda City	The Journal of the M. S. University of Baroda, July, 1961
23	Dr. V. K. Chavda		वे महत्त्वना जातिधर्मोनो संधीकाळ	Sanskriti, June, 1961
24	Dr. Y. J. Tripathi		Anandghan: A Mystic Jain Saint of Gujarat	Journal of the M. S. University of Baroda, Vol. X, No 1, April, 1961
25	Dr. S. H. Joshi		काकासाहेबनो अंलकार वैभव	Kakasaheb Adhyayana Grantha, December, 1961

	Name		Title	Name of the Journal wherein published
26	Shri H. M. Trivedi		मनोमुद्रानी मनोमुद्रा	Kshitij, November, 1961
27	Shri N. C. Desai		गुजराती नाटकसाहित्यनो विकास	Pustakalaya, January, 1962
28	Professor C. P. Singh	(i)	व्रजभाषा पाठशाला	Saraswati, Prayag, September, 1961
		(ii)	कवि भूदर और उनकी ध्यान बत्तीशी	Saraswati, Prayag, February, 1962
		(iii)	कवि गोप और उनकी ध्यान काव्यप्रभाकर	Rashtravina, March, 1962
		(iv)	साहित्य पाठकी सूनी उषा	Varshiki, Delhi
29	Shri M. G. Chaturvedi	(i)	आचार्य कवि गोविंद गील्लाभाई	Saraswati, Prayag, May, 1961
		(ii)	आलोक के कवि निराला	Raswanti, Lucknow, March, 1962
30	Shri M. G. Gupta	(i)	कृष्णभक्ति आंदोलनके पूरक—महाप्रभु वल्लभाचार्य	Navabharat Times, Bombay, June, 1961
		(ii)	प्राचीन भारत मे संगीत	Swatantra Bharat, Lucknow, July, 1961
		(iii)	दक्षिण भारतका कलावैभव	Navabharat Times, Bombay, 6th August, 1961
		(iv)	गोस्वामी तुलसीदास और भारतकी सांस्कृतिक चेतना	Navabharat Times, Bombay, 18th August, 1961
		(v)	बृहत्तर भारतका सांस्कृतिक उत्कर्ष	Yugdharma, Nagpur, 3rd September, 1961
31	Professor M. B. Desai	(i)	Some Aspects of Planning in Gujarat	Journal of the M. S. University of Baroda (Social Sciences Number July, 1961)
		(ii)	Agrarian Proletariat	Topic, October, 1961
		(iii)	Small Industry in Gujarat—Note submitted for the Seminar on Social Implication of industrialisation in November, 1961	UNESCO Research Centre, New Delhi
		(iv)	Some Questions of the Third Plan	Journal of Khadi and Gramodyog, 1961
		(v)	Agrarian Horizon	Economic Times, 21st August, 1961

	Name	Title	Name of the Journal wherein published
32	Professor M. B. Desai and Shri R. S. Mehta	(i) Co-operative Farming—A misunderstood concept	All India Co-operative Review, October, 1961
		(ii) Understanding Community Development	A.I.C.C. Economic Review, January, 1962, Special Number for the Patna Session, A.I.C.C.
		(iii) Abolition of Tenancy Cultivation (a paper read at All India Agricultural Economics Conference at Pillani in December, 1961)	Indian Journal of Agricultural Economics, January, March, 1962
33	Shri R. S. Mehta	(i) Co-operative Sector in the Third Plan	A.I.C.C. Economic Review, Special Plan Number, September, 1961
		(ii) Co-operative Sector in the Third Plan (Gujarat)	Gramjivan and Gujarat Samachar
		(iii) Gujarat State Co-operative Societies proposed new Act	Memorandum invited by Baroda District Co-operative Board

(2) Books :

	Name	Title	Name of the publisher
1	Dr. S. H. Joshi	Edited नवी नवलिका (An Anthology of Modern Short Stories with a Critical Introduction)	Chetan Prakashan Grih, Baroda, November, 1961
2	Late Professor B. K. Thakore, Editor Shri Umashanker J. Joshi	म्हारां सोनेट	Publication of the Gujarati Department, M. S. University of Baroda
3	Shri R. Krishnamurti	Akbar, the Religious Aspect	M. S. University, Baroda, 1961
4	Dr. S. C. Misra in collaboration with Shri M. L. Rahman	Mirat-i-Sikandiri	M. S. University, Baroda, 1961
5	Dr. R. N. Mehta	Puravastuvidya	Oriental Institute, Baroda
6	Shri B. Suryavanshi	The Abhiras—their History and Culture	M.S. University Archaeology and Ancient History Series No. 6

8. Literary, Cultural and Other Activities

Many members of the staff contributed articles on academic and popular themes and book reviews to 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 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 and one student won the second prize in Drama (Acting) in the Drama Competition. In the field of elocution the students of this Faculty participated in debates and won the Vice-Chancellor Trophy, the M. N. Wadia Trophy and the Majmudar Trophy. A lady student from this Faculty won the first prize in a women's Debate held at Jodhpur.

Considerable progress was made in the field of games too. Table Tennis, Carrom and Badminton Tournaments were arranged this year. The Faculty won the Championship Cup of Inter-University Cricket Tournament.

9. Co-Curricular Activities

(1) Tours : The Faculty Association arranged a study tour during the Winter vacation. Thirty students of the Faculty visited various cultural places like Agra, Jaipur, Udaipur and Industrial Fair of India at New Delhi. The English Literary Society arranged a trip to Nimeta, the Marathi Literary Society to Anand and the Gujarati Literary Society to Jojawa. The Economic Association arranged an educational trip to Community Development Project at Dabka in Padra Taluka.

(2) Faculty Annual Day : The Faculty celebrated its Annual Day on the 9th February, 1962. The celebration ended with the Annual Dinner.

(3) Debates : Dr. A. G. Javadekar acted as the Convener of the Speaker's Club. Guidance was given to the students by Dr. Javadekar in preparing for participation in debates. Students represented the Faculty at various University Union Debates as well as in other Universities.

(4) 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 students and teachers participating in them.

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

(6) Planning Forum: As usual, the Faculty observed the National Plan Week and organised a debate, an essay competition and a symposium on planning in this connection. An educational trip to village Dabka was arranged for students to observe the Community development work and the functioning of the Village Panchayat and the Co-operative Farming Society. In addition special lectures, a Plan exhibition and a film show were organised during the Week.

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.

(2) A two-day Seminar on Federalism in India and the U. S. A. and Teaching and Research in Political Science was held in the Department of Political Science on the 29th and the 30th January, 1962 under the joint auspices of the United States Information Service and the M. S. University of Baroda. Twenty-six representatives of nine Universities in Maharashtra, Gujarat and Madhya Pradesh and three eminent American Political Scientists participated in the Seminar. The three American

participants were: Dr. Clinton Rossiter, Professor of Government and Chairman of Cornell University; Dr. Norman Palmer, Chairman, the Department of Political Science, University of Pennsylvania; and Dr. Phillips Bradley, Chief Cultural Affairs Officer, USIS, Bombay.

(3) Dr. A. C. Herberger, Professor of Economics, University of Chicago, visited the Department of Economics and delivered three lectures on the 22nd January, 1962. Dr. William Schenk, Programme Economist to the T.C.M. also visited the Department of Economics and delivered two lectures on the 1st and the 2nd February, 1962. Dr. S. K. Muranjan, former member of Tariff Commission also addressed the Post-graduate Seminar (Economics) on the 14th February, 1962. Shri Ratna, Assistant Income-Tax Commissioner, Baroda, delivered three talks on "Income Tax Policy on India" on the 16th, the 17th, and the 19th February, 1962.

(4) United States Information Service arranged the visit of Dr. Edward Younger, Professor of History in the Virginia State University to the Faculty in August, 1961. The History Department organised two lectures by Dr. Younger on the subject of American History.

(5) Professor Raintard Bendix, Professor of Sociology, University of California, Berkeley, visited the Department of Sociology and delivered a series of lectures.

(6) Mr. Spencer and Mr. Byrne, British Council Education Officers visited the Department of English.

(7) Professor V. Y. Kantak, Head of the English Department attended the International Shakespeare Conference held in U.K. from the 26th August to the 16th September, 1961 as British Council Delegate, and presented a paper.

(8) Professor I. S. Gulati, Head of the Economics Department went to Bangkok, Thailand for a period of three months from the 29th June to the 28th September, 1961 to work as Consultant in the United Nations Economic Commission for Asia and the Far East and to assist in preparing a chapter on the Financing of Economic Growth in the ECAFE countries.

(9) Professor A. H. Somjee, Head of the Political Science Department went to London to deliver lectures, on an invitation by the London School of Economics.

(10) The theses of 1 candidate each in Gujarati, Marathi, Philosophy and Political Science, and 3 candidates each in Sanskrit and Sociology were accepted during the year for the award of the Ph.D. degree.

CHAPTER IX—FACULTY OF SCIENCE

1. Brief History

The old Baroda College established in 1881, had a Science section with the departments of Physics, Chemistry and Biology. When the University was started on the 30th April, 1949, the Baroda College was handed over to the University which organised the Science section into the present Faculty of Science in 1950. The departments of Physics and Chemistry were strengthened and in place of the department of Biology, 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 Bio-chemistry was added in June 1955. The Faculty of Science now consists of the departments of Bio-chemistry, Botany, Chemistry, Geography, Mathematics, Physics, Statistics, and Zoology, the department of Geology, being located in the Faculty of Technology and Engineering.

2. Buildings

The Faculty of Science is accommodated in its main building known as the Sayaji Jubilee Science Institute building, which was completed in 1937, the new building built in 1960 and 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 1960 at the total cost of Rs. 4,65,399. A floor has been put over the Physics Wing on the north in the old building at a cost of Rs. 2,01,500 approximately from the University Grants Commission grant of Rs 75,000 for implementation of the three year degree course in Science and Rs. 75,000 for building for Bio-chemistry Department.

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) 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 except Economics 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 dissertation, but not by research. The course for Ph.D. degree is by research only, and is of two years duration after M.Sc.

The two year course in M.Sc. with Geology was started in June, 1960. Ph.D. course in Geology was started during the year under report.

4. Number of Students

The number of students on roll in the various classes at the beginning of the year 1961-62 was as under:

Class	*Men*	*Women*	*Total*
Pre-Medical	66	14	80
B.Sc. I	103	22	125
B.Sc. II	113	25	138
B.Sc. III	127	21	148
Jr. M.Sc.	102	14	116
Sr. M.Sc.	79	9	88
Ph D.	24	3	27
Total:	614	108	722

5. Staff

During the year, the teaching and other staff of the Faculty consisted of:

Department	*Professors*	*Readers*	*Lecturers*	*Demonstrators or Tutors*	*Clerks or Technicians*	*Class IV servants*	*Total*
Bio-chemistry	1	1	4	2	4	4	16
Botany	1	1	5	6	5	3	21
Chemistry	1	3	6	12	13	9	44
Geography	—	1	5	2	4	1	13
Mathematics	1	1	7	3	—	1	13
Physics (including Observatory)	1	1	5	11	8	8	34
Statistics (including S.S.U.)	1	1	5	4	2	2	15
Zoology	1	1	4	7	6	3	22
Workshop	—	—	—	—	8	1	9
Faculty Office	—	—	—	—	9	8	17
Total:	7	10	41	47	59	40	204

Professor P. D. Nieuwkoop, Director of International Biological Laboratories, Utrecht, Holland worked as a Visiting Professor of Zoology during the first three months of 1962. Dr. S. P. Pandya of Physical Research Laboratories, Ahmedabad continued to give, during the year, a course of lectures on Theoretical Physics to M.Sc. students. Dr. D. M. Munshi of St. Zavier College also continued to give, during the year, a course of lectures on Entomology to M.Sc. students.

The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions of the University, where science subjects are included in their courses *e.g.* Preparatory Unit, Faculty of Arts, Faculty of Commerce, Faculty of Home Science, Faculty of Technology and Engineering. They also delivered lectures under the General Education Programme, helping the General Education Department.

6. Library

There is no separate library or reading room for the Faculty of Science, as the University Library—Shrimati Hansa Mehta Library is situated just near the buildings of the Faculty of Science. Some departments however maintain small departmental libraries with books loaned from the University Library.

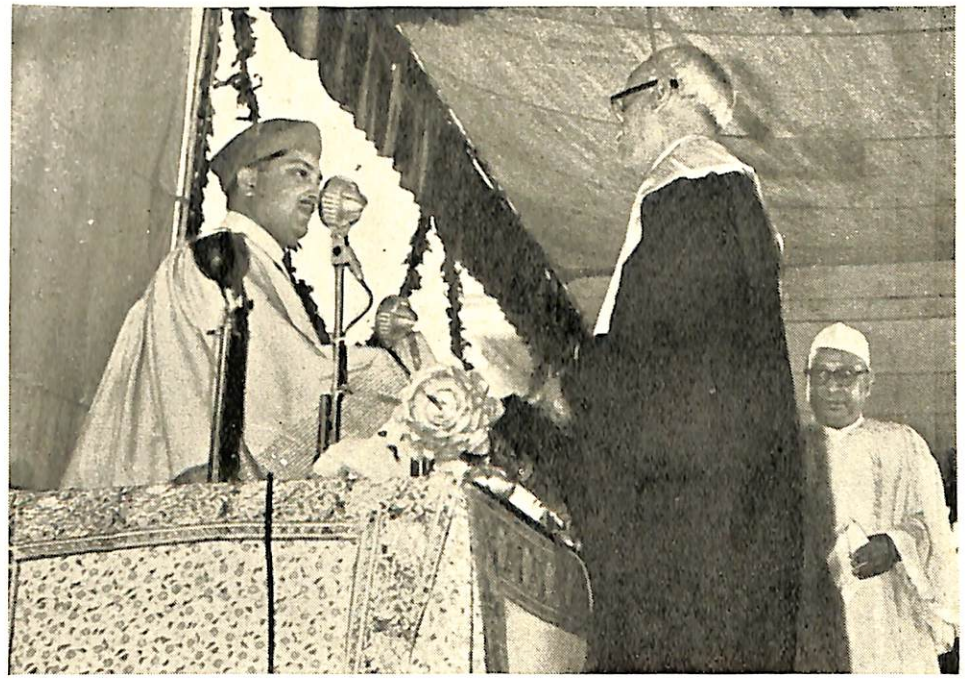
The amounts spent during the year for science books and periodicals etc. were: (i) Rs. 10,000 from Science Faculty Books Budget, (ii) Rs. 30,000 from the University Grants Commission Grant to the University for books on scientific subjects and (iii) Rs. 1,000 for binding from Science Faculty Budget.

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.

The Central Workshop, which has an adequate and competent staff, did very useful work, during the year, of preparation of research and other apparatus, repairing of instruments and apparatus, of training Physics post-graduate students in Workshop practice, etc.

Substantial additions of scientific apparatus and equipment were made during the year to the laboratories of the Faculty. The following table gives the cost of equipment in the different laboratories added during the year 1961-62 and the total cost as on the 31st March, 1962.



The Chancellor awards the "Dr. K. G. Naik Gold Medal" to Dr. R. C. Shah

Laboratory	*Cost of Equipment as on 1-4-1961*	*Cost of Equipment written off during the year*	*Cost of Equipment added during the year*	*Cost of Equipment as on 31-3-1962*
	Rs.	Rs.	Rs.	Rs.
Bio-chemistry	1,63,267	—	38,164	2,01,431
Botany	2,40,451	—	51,205	2,91,656
Chemistry	3,43,006	—	32,042	3,75,048
Geography	1,40,661	—	14,617	1,55,278
Physics (including Workshop)	3,69,790	—	51,847	4,21,637
Statistics	83,580	—	1,648	85,228
Zoology	2,05,458	—	16,450	2,21,908
Total	15,46,213	—	2,05,973	17,52,186

8. Publications of the members of the staff and students

(a) Research Papers

Sr. No.	*Author*	*Title*	*Name of the Journal wherein published*
1	P. N. Raina, C. V. Ramakrishnan and B. P. Gothoskar	Amino acid composition of the culture fluid during cultivation of chick and rat heart tissue explants in medium M 150	Exptl. Cell Research, 24, 265 (1961)
2	B. P. Gothoskar, P. N. Raina and C. V. Ramakrishnan	Activities of Tricarboxylic acid cycle enzymes in fresh, Nutritionally depleted and cultivated explants of chick and rat heart tissues	Exptl. Cell Research, 24, 272 (1961)
3	W. M. Deshpande and C. V. Ramakrishnan	Formation and breakdown of citric acid in Garcinia fruit (Xanthochymus guttiferae)	J. Biol. Chem. 236, 2377 (1961)
4	V. V. Modi and D. K. Patwa	(i) Studies on the enzymic synthesis of carotenoids in cell free extracts of carrot	Enzymologia, 23, 27 (1961)
		(ii) Occurrchce of mevalonic acid in carrots	Nature, 191, 1202 (1961)

Sr. No.	Author	Title	Name of the Journal wherein published
5	J. B. Hanson, R. K. Morton and C. V. Ramakrishnan	Diphosphopyridine nucleotide synthesis in plants: utilization of micotinic acid, nicotinamide and micotinic acid mononucleotide by isolated shoots and roots of germinating corn	Proe. Int. Symp. Plant and Organ Culture, Delhi, December, 1961
6	P. N. Raina and C. V. Ramakrishnan	Metabolic studies on normal and neoplastic rat liver	Proc. of First All-India Cancer Conference, Bombay, December, 1961
7	A. R. Chavan, S. J. Bedi and S. D. Sabnis	(i) Some observations on a root parasite-Aeginetia indica Linn	Current Science, May, 1961
		(ii) A Tetramerous flower of Abutilon indicum Sweet	Current Science 30 (10) : 403, October, 1961
		(iii) Contribution to the Flora of Devgadh Hills, Devgadh Baria	J. M. S. Univ. Baroda 10 (2) : October, 1961
		(iv) Dalechampia scandens L. Var. cordofana (Hochst) Muell & Arg. A new Record for India	Current Science 31 (3) : 115 March, 1962
8	A. R. Chavan and S. N. Padate	Coronupus didymus (Linn) SM. A. New Record for Bombay State	Science & Culture 27 (9) : 455 September, 1961
9	A. R. Chavan and G. M. Oza	(i) Indigofera astragalina DC. Near Baroda	Indian Forester 87 (12) : 763-64. December, 1961
		(ii) Field Note on the Systematics of Curcuma-Curcuma pseudomontana Graham at Pavagadh	Journal of the M. S. University of Baroda, 9 (2) : 41-42, April, 1961
		(iii) Fasciation of a leaf in Holarrhena antidysenterica (Linn.) Wass.ex A. D.C. and Polyalthia longifolia (Lam.) Hook. f. et Thoms	Ibid. 9(2) 75-76, tt. 1-2, April, 1961

Sr. No.	Author	Title	Name of the Journal wherein published
		(iv) The Identity of the Genus Bidens of Bombay—The Linneau Plant from Pavagadh	Indian Forester 87 (4) : 251, 1961
		(v) Momordica denidate Clarke (Cucurbitae) and Trema Pilitoria Planch. (Ulmac) New Records for Bombay	JBNHS 58 (1) : 303-04 April, 1961
10	J. S. Dave and J. M. Lohar	Mixed Mesomorphism	Proceedings of the National Academy of Sciences, India ZXXXII Part I, 1962, 105
11	C. H. Patel, K. N. Trivedi and C. M. Mehta	Formation of Malonmono aryl-amides on partial hydrolysis of cyanacet arylamides using polyphosphoric acid and sulphuric acid	J.S.I R. 1961 20B. 457
12	C. M. Mehta, J. M. Trivedi and G. H. Patel	Bromination of substituted amides of acetoacetic acid	J.S.I.R. 1961 20B, 460
13	N. H. Shah and Suresh Sethna	Hydroxynathracene series Part IV Synthesis of some Anthraquinone Derivatives	Journal of the Chemical Society 1961, 4682
14	N. V. Shah and Suresh Sethna	Chromones and Flavones Part III Synthesis of some Cyano Chromones and flavones	Journal of the Chemical Society 1961, 2663
15	S. S. Lele, N. G. Sawant and Suresh Sethna	Chloromethylation of some 5-and 6-Hydrocoumarin Derivatives	Journal of Indian Chemical Society 1961, 38, 975
16	S. S. Lele, M. G. Patel and Suresh Sethna	Cyanocoumarins	Journal of Organic Chemistry, 1962, 27, 637
17	B. S. Yadav	On the absolute Convergence of Flourier Series	Journal of the M. S. University of Baroda, Vol. 10, No. 3 November, 1961
18	S. D. Manerikar	A note on Convergence	Mathematical Gazette, 1961

Sr. No.	Author	Title	Name of the Journal wherein published
19	N. S. Pandya, C. J. Shah and V. P. Bhatt	Micro-Hardness along tricrystal boundaries in Tin	Journal of Science, Industr. Res. 20B, 517, 1961
20	N. S. Pandya and V. P. Bhatt	Etching of antimony single crystals	Current Science, 30, 293, 1961
21	N S. Pandya and J. R. Pandya	Etching of Calcite cleavages	M. S. University Journal, October, 1961
22	K. R. Chaudhari and G. K. Trivedi	Study of Viscosity of highly viscous liquids (Part I)	Journal of Science. Industr. Res. 20B, 470, 1961
23	R. V. Joshi	Temperature dependence of the ultraviolet and visible phosphorescance in Kcl; Tl	Physics, 27, 1119, 1961
24	N S. Pandya	(i) Story of Diamond	Uttar Pradesh, Vol. XIX, 8, Kartik 1883
		(ii) Importance of Physics in Engineering	Journal of the Association of Principals of Technical Institutions (India) Vol. XX, XIV, August, 1961
25	B. K. Shah and C. G Khatri	Distribution of a Definite Qudratic form for non-central variates	Annals of Mathematical Statistics Vol. XXXII (1961)
26	C. G. Khatri	(i) On the distribution obtained by varying the number of trials in a Binomial Distribution	Annals of Statistical Mathematics Vol. XIII (1961)
		(ii) A Simplified Approach to the derivation of the theorems on the rank of a matrix	Journal of M. S. University of Baroda Vol. X. 3 (1961)
		(iii) Simultaneous Confidence Bounds connected with a general linear hypothesis	Journal of M. S. University of Baroda Vol. X. 3 (1961)
27	Indira Bhanot and C. G. Khatri	Standard Errors of the Least Square Estimates of the constants in Makeham's Second Modification	Journal of M. S. University of Baroda Vol. X. 3 1961

Sr. No.	Author	Title	Name of the Journal wherein published
28	B. K. Shah	(i) Estimation of the parameters from expomential distribution when the data are of mixed nature	Journal of M. S. University of Baroda, Vol. X. 3 1961.
		(ii) A Simple Method of fitting the regression curve $Y = \alpha + \Sigma \sqrt{(x)} + B\rho^x$	Biometrics Vol. XVII (1961)
29	C. G. Khatri and I. R. Patel	Three classes of Discrete Distributions	Biometrics Vol. XVII (1961)
30	Indira Bhanot	Statistical Summary of Medical Inspection Reports 1960-61	Published by M. S. University of Baroda (1961)
31	S. C. Jaiswal	Medical Statistics and Punched Card Mechanisation	Journal of Indian Medical Profession January, 1962
32	George J. C., Dolly Jyoti, A. Winfrod and O.G.W. Berlin	Is not the so called lymph gland of the scorpion also an endocrine organ	J. Amin. Morph. Physiol. 8. 1.
33	George J. C.	(i) Nest shifting behaviour of the ashy wren-warbler	*Auk*, 78, 1961
		(ii) Miscellaneous note 4. Parental co-operation in the feeding of nestlings in the Indian robin (Saxicoloides fulicate (Linn))	Nature. Hist. Soc. 1961
34	George J. C. and C. L. Talesara	(i) The succinic dehydrogenase levels of the pectoral muscles of a few representative types of birds and a bat in relation to the fibre diameter, muscle weight and body weight	Comp. Biochem. Physiol. 3, 267, 1961
		(ii) A quantitative study of the distribution pattern of certain oxidizing	J. Cellular and Comp. Physiol. 58. 3, 1961

Sr. No.	Author	Title	Name of the Journal wherein published
		enzymes and lipase in the red and white fibres of the pigeon breast muscle	
35	George J. C. and A. K. Susheela	A histophysiological study of the rat diaphragm	Biol. Bull, 121, 3, 1961
36	C. L. Talesara	A quantitative study of the distribution pattern of iron in the red and white fibres of the pigeon breast muscle	A. Amin. Morph. Physiol. 8, 2, 1961
37	George J. C. and N. V. Vallyathan	Effect of disuse atrophy on pectoralis muscle and blood in the pigeon	Am. J. Physiol. 2
	(b) *Research Monograms*:		
1	V. A. Janaki and Z. A. Sayed	The Geography of Padra Town	M. S. University of Baroda

9. Literary, Cultural and Other Activities

(1) *Statistical Service Unit*:

The Statistical Service Unit continued to carry on the activities of helping research workers in problems of classification and tabulation, preparation of summary of medical inspection report and work on measurement of Wastage and Stagnation in Universities, etc.

(2) Activities of Teachers:

(a) Professor C. V. Ramakrishnan of Biochemistry Department returned after a tour of Austrialia and Japan. (b) Dr. Rajalakshmi of Biochemistry Department returned after working for a year in Psychology Department of University of Adelaide, Australia. (c) Dr. V. V. Modi of Biochemistry Department did during the year research work on Biotin Metabolism in the University of Illinois, U.S.A. (d) Shri H. R. Chokshi of Biochemistry Department returned after a year's training in Tissue Culture at the Institute of Infectious Diseases Tokyo, Japan. (e) Dr. C. H. Pathak of Botany Department took training in Cyto-Genetics at Cyto-Genetics Laboratory in October, 1961. (f) Shri S. D. Sabnis of Botany Department went to Dehradun Forest Research Institute for training in Floristic Studies, in May, 1961. (g) Dr. S. L. Bafna of Chemistry Department took training in the technique of Infra-red Spectro-

scopy for six weeks at the National Chemical Laboratory, Poona. (h) Dr. R. V. Joshi of Physics Department went through training for studying optical properties of solids, for two weeks at the National Physical Laboratory, Delhi. (i) Shri A. G. Phatak of Statistics Department went through training in certain topics of Advanced Statistics at Indian Institute of Statistics, Calcutta during May-June, 1961. (j) Dr. C. G. Khatri of Statistics Department was awarded senior post-doctorate University Grants Commission fellowship. (k) Dr. J. M. Lohar of Chemistry Department was awarded post-doctorate University Grants Commission fellowship. (l) Dr. M. S. Patel of Statistics Department who is in U.S.A. was awarded the Ph D. degree of University of North Carolina and he is having good research experience at Research Triangle and Purdue University. (m) Professor J. C. George of Zoology Department did research work in the fields of Flight of birds and Avian Biology at Washington State University, U.S.A. (n) Dr R. M. Naik of Zoology Department did research work at Michigan State University as Fulbright and Smith-Mundit scholar. (o) Sarvashri G. N. Naik and M. D. Pillai of Chemistry Department left the service of the University to go abroad for higher studies in Chemistry. (p) Shrimati Indira Bhanot of Statistics Department and Professor N. S. Pandya of Physics Department worked during the year as President and Treasurer of the University Union. (q) Professor A. R. Chavan of Botany Department worked as Chairman of Students' Common Room and on the Sports Advisory Board. (r) Professor D. V. Gogate of Physics Department was given a farewell party by the teachers of the Faculty on the eve of his retirement from the services of the University after distinguished service of 29 years. (s) Several teachers of the Faculty were deputed to attend various conferences, seminars, etc. Below are given the research papers presented at these conferences by the teachers and students:

Author	Title	Conference
(i) B. S. Yadav	On the Absolute Convergence of Fourier Series	Science Congress January, 1962
(ii) C. G. Khatri	Simplified Method of Fitting the Doubly or Singly Truncated Negative Bionomial Distribution	Science Congress January, 1962
(iii) C. G. Khatri and B. K. Shah	Maximum Likelihood Estimation of a Truncat-	Science Congress January, 1962

Author	Title	Conference
	ed Chi-distributed Radial Error from Grouped Observations	
(iv) R. V. Joshi	Saturation Curves for Kcl : Tl Luminescence	Science Congress January, 1962
(v) N. S. Pandya and J. R. Pandya	Optical Study and Cleavage and Etched Surfaces of Flourite	Science Congress January, 1962
(vi) R. G. Edkie	Influence of Ionic Currents	Science Congress January, 1962
(vii) R. D. Rao and D. V. Gogate	On Heat-transfer in Liquids	Science Congress January, 1962
(viii) J. S. Dave and A. R. Patel	Estimation of copper and nickel by res-n-butyrophenone oxime	Science Congress January, 1962
(ix) A. M. Talati and T. I. Patel	Absorption Spectra of the Oximes of Cyanacetic Acid Derivatives	Science Congress January, 1962
(x) J. S. Dave and J. M. Lohar	Mixed Mesomorphism-II	Science Congress January, 1962
(xi) K. N. Trivedi and Suresh Sethna	Coumarino-X-pyrones and Furo-coumarins	Science Congress January, 1962
(xii) M. V. Shah and Suresh Sethna	Chloromethylation of some cromones and flavones	Science Congress January, 1962
(xiii) M. V. Shah	Synthesis of some bichromonyals, biflavonyls and .....flavone	Science Congress January, 1962
(xiv) M. G. Patel and Suresh Sethna	Mannich Reaction on some coumarin derivatives	Science Congress January, 1962
(xv) S. S. Merh	Tectomic significance of the presence of more than one set of Lineations in Deformed Rocks	Science Congress January, 1962
(xvi) V. A. Janaki and M. C. Ghia	Tributary Area of Baroda	Science Congress January, 1962
(xvii) V. A. Janaki and V. S. Rajan	Transport and the changing pattern of population and land utilization in Waghodia Taluka	Science Congress January, 1962
(xviii) R. V. Shah	Preliminary Report on the Comparative Study of the Respiratory Muscles in Chelonia	Summer School in Zoology at Simla

Author	Title	Conference
(xix) P. M. Ambadkar	Histo-Chemical Demonstration of lipase activity in the rat testes	Conference by Family Planning Association of India

(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 the University Week Competitions, they put in very good performance securing a large number of prizes e.g. first prize in drama, second prize in garba, third prize in group-singing and the first individual prize for best acting. The Students Association of the Faculty carried on its usual activities and celebrated the Faculty Day in Mahatma-Gandhi Nagar Griha on the 9th February, 1962 under the presidentship of the Vice-Chancellor Dr. J. M. Mehta.

10. Co-Curricular Activities

(a) *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.

(b) *Study tours* : Senior students of Botany, Geology and Zoology went with their teachers on several study tours to make field studies and collect materials for their museums. Students of Chemistry, Physics and Statistics also went on tours to places interesting from the point of view of their respective subjects, visiting important institutions, factories, etc.

(c) *Film Shows* : Film shows were arranged to supplement class-room teaching and promote general knowledge. A good number of films on scientific and technical subjects were shown in the departments of Bio-chemistry, Botany, Chemistry and Geography.

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 a regular feature. For each subject, tests with 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 answers was done by the teachers teaching the subject. The scheme worked satisfactorily. Records of marks were maintained and were submitted to the University at the end of the year.

12. Important Events

(1) 11 students received the Research Training Scholarships of Rs. 200 p.m. from the Ministry of Scientific Research and Cultural Affairs, Government of India for carrying on research for their Ph.D. degree.

(2) 5 students were awarded the Post-graduate Merit Scholarship of Rs. 100 p.m. by the Ministry of Education, Government of India.

(3) One student was awarded the post-graduate scholarship of Rs. 150 p.m. and 4 were awarded the under-graduate scholarship of Rs. 100 p.m. by the Atomic Energy Commission, Bombay.

(4) The theses of 5 students in Organic Chemistry, 1 in Physical Chemistry, 2 in Physics and 4 in Zoology were accepted during the year for the award of Ph.D. degree.

(5) Many distinguished visitors came to the Faculty during the year.

CHAPTER X—FACULTY OF EDUCATION AND PSYCHOLOGY

1. Brief History

This institution was started in 1935 as a Secondary Teachers' Training College by the Ex-Baroda Government and was located in a few rooms of 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. It was affiliated to the University of Bombay for the B.T. degree in 1938 and Diploma in Teaching in 1940, and was provided with an independent building. A practising high school was also attached to it. The University of Baroda assumed charge of 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 organised courses in Psychology leading to the B.A. (Special) degree in 1952, M.A. degree in 1954. Three post-graduate diplomas were started later, Guidance and Counselling in 1958, and Educational Administration and Applied Linguistics in 1959. The Faculty, in view of the necessity of training of pre-primary teachers, started the Diploma in Early Childhood Education for undergraduate teachers in 1961. Advanced study 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 attached to the Faculty in October, 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 and Educational Administration
(3)	Post-graduate Diplomas	(i) Educational Administration (ii) Guidance and Counselling (iii) Applied Linguistics

(4) Undergraduate Diplomas (i) Teaching
(ii) Early Childhood Education

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

4. Number of Students

The number of students enrolled in the various courses at the commencement of the year 1961-62 was as follows :

Class	*Men Students*	*Women Students*	*Total*
A. Undergraduate Diploma :			
(i) T.D.	24	12	36
(ii) Diploma in Early Childhood Education	1	8	9
Total :	25	20	45
B. Degree :			
(i) B.Ed.	80	35	115
(ii) S.Y.B.A. (Psychology)	5	18	23
(iii) T.Y.B.A. (Psychology)	3	22	25
Total :	88	75	163
C. Post-graduate Diploma :			
(i) Junior Diploma in Guidance and Counselling	2	1	3
(ii) Senior Diploma in Guidance and Counselling	5	—	5
(iii) Junior Diploma in Applied Linguistics	1	2	3
(iv) Senior Diploma in Applied Linguistics	2	2	4
(v) Junior Diploma in Educational Administration	6	—	6
(vi) Senior Diploma in Educational Administration	3	1	4
Total :	19	6	25
D. Post-graduate Degree :			
(i) M.Ed. (Thesis)	11	1	12
(ii) Junior M.Ed. (by papers and dissertation)	18	4	22

Class	*Men Students*	*Women Students*	*Total*
(iii) Senior M.Ed.	18	2	20
(iv) Junior M.A. (Psychology)	5	2	7
(v) Senior M.A. (Psychology)	2	3	5
Total :	54	12	66
E. Ph.D. (Thesis)	16	6	22
Grand Total :	202	119	321

5. Staff

During the year, the staff of the Faculty consisted of 3 professors, 6 readers, 15 lecturers, 1 part-time lecturer, 2 tutors and 1 demonstrator, and 9 Class III and 8 Class IV servants. In addition to the above, a Co-ordinator was in charge of the Department of Extension Services, financed by the Directorate of Extension Programmes in Secondary Education. The University Guidance and Counselling Centre is attached to the Faculty. It is manned by 1 Counsellor, 1 psychologist, 2 technical assistants, 1 clerk and 1 attendant.

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. 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 1961-62, as many as 150 projects were added. These were prepared by students under the guidance of the members of the staff. According to the present practice every student under training prepares a set of illustrative aids for teaching a selected topic or a series of topics. Selected projects were added to the Faculty Museum.

S. No.	*Item*	*Cost of equipment as on 1-4-1961*	*Cost of equipment written off during the year*	*Cost of equipment added during the year*	*Cost of equipment as on 31-3-1962*
		Rs.	Rs.	Rs.	Rs.
1.	Museum	10,939=73	800=00	1,971=55	12,111=28
2.	Teaching Aids	850=00	300=00	200=00	750=00

(2) Psychological Laboratory :

The laboratory is equipped with a rich collection of instruments required for psychological experiments. A special section of the laboratory deals with mental tests and includes a good deal of modern material required for testing intelligence, aptitude, achievements and personality. With the financial assistance of the University Grants Commission, new 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 1-4-1961*	*Cost of equipment written off during the year*	*Cost of equipment added during the year*	*Cost of equipment as on 31-3-1962*
Rs.	Rs.	Rs.	Rs.	Rs.
Laboratory	50,621=43	338=00	2,104=75	52,388=18

(3) Audio-Visual Programme :

The Faculty conducts a course in Audio-Visual Education as an integral part of its teacher education programme. The course is conducted at two levels, *viz.* B.Ed. and T.D. All the B.Ed. and T.D. students are trained in the operation and maintenance of the movie projector, filmstrip projector, episcope, 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 specialization. In cooperation of the Extension Department, seminars and refresher courses in Audio-Visual Education are also conducted for inservice teachers.

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

Item	*Cost of equipment as on 1-4-1961*	*Cost of equipment written off during the year*	*Cost of equipment added during the year*	*Cost of equipment as on 31-3-1962*
	Rs.	Rs.	Rs.	Rs.
Audio-Visual Aids	6,196=80	82=00	4,753=29	10,868=09

8. Publications

Books, brochures, articles and papers were published from time to time in University Journal or other research journals. The following were the main publications of the members of the staff during the year 1961-62 :

Sr.No.	*Name*	*Title*	*Where published*
	(A) *Books :*		
1	Dr. D. M. Desai	(i) ગુજરાતી અધ્યાપનના નવીન પ્રવાહો	એ. આર. શેઠની કંપની, મુંબઈ, જુલાઈ, ૧૯૬૧.
		(ii) Recent Trends in the Teaching of Modern Indian Languages	Orient Longmans, September, 1961.
	(B) *Brochures :*		
1	Dr. (Kumari) P. Pasricha	Intersex Adjustment in College and Related Problems	Student Counselling Centre, Faculty of Education and Psychology, Baroda, August, 1961.
2	ડો. ડી. એમ. દેસાઈ	(i) ગુજરાતી શિક્ષણમાં પરીક્ષણ અને મૂલ્યાંકન	એ. આર. શેઠની કંપની, મુંબઈ, જૂન, ૧૯૬૧
		(ii) વસ્તુલક્ષી કસોટીઓ કેમ બનાવશો ?	એ. આર. શેઠની કંપની, મુંબઈ, ઓક્ટોબર, ૧૯૬૧
		(iii) માતૃભાષામાં પ્રયોગો ને ક્રિયાત્મક સંશોધનો	એ. આર. શેઠની કંપની, મુંબઈ, ડિસેમ્બર, ૧૯૬૧
3	Dr. A. S. Patel	An experimental approach to effecting changes in opinion of University students	M. S. University of Baroda, May, 1961
4	Sarvashri D. B. Desai and J. J. Mody	(i) Projects and Assignments in the Teaching of Hindi	Extension Department Services, Faculty of Education and Psychology, Baroda, October, 1961
		(ii) Projects & Assignments in Gujarati	Extension Department Services, Faculty of Education and Psychology, Baroda, October, 1961
5	સર્વશ્રી. ડી. બી. દેસાઈ અને જે. એમ ચૌધરી	સમાજવિદ્યામાં પ્રયોગો અને ક્રિયાત્મક સંશોધનો	એ. આર. શેઠની કંપની, અમદાવાદ; ઓક્ટોબર, ૧૯૬૧
6	શ્રી. ડી. બી. દેસાઈ અને ડો. ડી. એમ. દેસાઈ	સમાજવિદ્યામાં મૂલ્યાંકન અને પરીક્ષણ	એ. આર. શેઠની કંપની, અમદાવાદ, માર્ચ, ૧૯૬૨
7	શ્રી જી. બી. શાહ	ગણિતશાસ્ત્રનું મૂલ્યાંકન	એ. આર. શેઠની કંપની, મુંબઈ, ફેબ્રુઆરી, ૧૯૬૨

Sr.No.	Name	Title	Where published
	(C) *Articles or Papers :*		
1	Professor S. N. Mukerji	(i) Tagore's Educational Philosophy	Education and Psychology Review, January, 1962
		(ii) माध्यमिक शिक्षणनी केटलीक समस्याओ	शिक्षण भारती, जान्युआरी, १९६२
2	Professor M. S. Patel	A new Approach to Grammar	Education and Psychology Review, April, 1961
3	Dr. (Smt.) P. Phatak	(i) Class-room Evaluation in English	Shikshan Bharati, Vol. 1, No. 3, May-July, 1961
		(ii) Some Thoughts on Class-room Evaluation	The Orissa Education Magazine, Vol. No. II, December, 1961
		(iii) Sex-differences on Phatak's Draw-a-man Scale	Education and Psychology Review, Vol. 2, No. 1, January, 1962
		(iv) Exploratory Study of Creativity and Scholastic Achievement	Psychological Studies, Vol. 7, No. 1, January, 1962
4	Dr. A. S. Patel	(i) An investigation to study imagery, its types and relation to intelligence	Education and Psychology Review, July, 1961
		(ii) Efficiency in serial rote learning as a function of a visual and aural presentation of learning material	Psychological Studies, Mysore, July, 1961.
		(iii) Distortion in perception and reproduction of figures as a function of mental set exercised by language labels	Indian Journal Psychology, Calcutta, Vol. 36, pp. 119-125, September, 1961
5	Dr. D. M. Desai	(i) स्वाध्याय पद्धतिए गद्यशिक्षण	शिक्षण भारती, मुंबई, नवेम्बर, १९६१
		(ii) Role of the State in Pre-primary Education	Education and Psychology Review, Baroda, December, 1961
		(iii) The New Revised Syllabus in English of the Gujarat State	Shikshan Bharati, Bombay, January-March, 1962

Sr.No.	Name	Title	Where published
6	श्री जी. पी. भट्ट	बालकला	घरशाळा, मे, १९६१
7	सर्वश्री के. एस. याज्ञिक अने डी. बी. देसाई	समाजविद्यामां अभिनव प्रयोग अने तेनुं मूल्यांकन	शिक्षण भारती, मे-जून, १९६१
8	सर्वश्री डी. बी. देसाई अने जी. बी. शाह	(i) क्रियात्मक संशोधन एटले शुं ?	नूतन शिक्षण, फेब्रुआरी. १९६२
		(ii) क्रियात्मक संशोधननी भूमिका	नूतन शिक्षण, मार्च, १९६२
		(iii) What is action research ?	Nutan Shikshan, March, 1962
		(iv) Action Research	Nutan Shikshan, March, 1962
9	श्री डी. बी. देसाई	(i) समाजविद्या विशे फरी विचारीए. (लेखांक १)	नूतन शिक्षण, डिसेम्बर, १९६१
		(ii) समाजविद्यामां संकलित एकमोनुं आयोजन	सारस्वत, डिसेम्बर, १९६१
		(iii) Progressive Matrices Test (1956 Version) as applied to a group of Secondary School-going children of Gujarat	M. S. University Journal, December, 1961
		(iv) समाजविद्यामां वायु वार्तालाप	सारस्वत, मार्च, १९६२
10	श्री जे. जे. मोदी	(i) काव्यशिक्षणमां प्रयोग (कविलक्षी)	मातृभाषामां प्रयोगो अने क्रियात्मक संशोधनो (पुस्तिका), नवेम्बर, १९६१
		(ii) व्याकरणशिक्षण केटलुं सफल थयुं ?	शिक्षण भारती, जान्युआरी, १९६२
11	Shri R. S. Shah	Leisure-time Activities of the Pupils	Shikshan Bharati (Gujarati) March, 1962
12	Shri G. B. Shah	(i) विषयज्ञानप्राप्ति कसोटी	शिक्षण भारती, जुलाई, १९६१
		(ii) Construction and Standardization of Mathematical ability test	Education and Psychology Review, January, 1962

Besides the publications of the above nature, 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 Professor S. N. Mukerji, Dean of the Faculty. An important feature of the Review is the publication of a 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. It 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 organized the following items of work during the year :

(a) *Summer School of Education* : This was arranged from the 1st to the 10th June, 1961 at Rajpipla. 95 teachers attended the school. The following items were taken up : (i) The teaching of Sanskrit, (ii) Assignments and Projects in Hindi, (iii) Assignments and Projects in Gujarati, and (iv) Refresher Course for teachers of physical education.

(b) *Seminars and Workshops* : During the year, the Department organised eight workshops and seminars.

(c) *Exhibitions* : Two Vigyan Melas and six exhibitions were arranged for displaying different aspects of teaching.

(d) *Audio-Visual Services* : Several schools under the jurisdiction of the Department borrowed the visual materials from us and arranged film-shows.

(e) *School Science Clubs* : Twenty-two schools have started School Science Clubs during the current session. The new as well as the old clubs sought guidance from the Department.

(f) *School Visits* : 47 secondary schools in the Extension area were visited by the Director and the Coordinator.

(g) *Educational Experiment* : An experiment on 'Integrated Instruction in Social Studies—Standard VIII' has been undertaken by 12 schools in Baroda. 4 schools are conducting an experiment in 'Examination Reform' under the guidance of the Department.

(h) *Publications* : Nine brochures were published during the current year.

(2) *Secondary School Counselling Centre* :

The Centre undertook a number of activities like career talks, talks on educational guidance, symposia, career conference, career exhibition, screening of career films and filmstrips, case studies of students, etc.

(3) *Rural Education* :

In the current year 1961-62 there were 12 B.Ed. and 10 T.D. students, who had offered Rural Education as their special field of education. They worked at the Seva Samaj Sharda Mandir at Varnama and also at Shri Sarvajanik High School at Waghodia, the two centres selected by the Faculty.

The women students organised a Mahila Mandal in the village Varnama. They taught the village women for the sewing, knitting, garba, ras, etc. They also distributed books provided by the Faculty among the women and encouraged them to cultivate taste for reading. At Waghodia the Mahila Mandal was a going concern and the lady students taught them patterns of garments, new designs of embroidery, rangoli, etc.

Some men students undertook the socio-economic survey of the village of Varnama, which included educational and cultural aspects also. Others undertook two projects in the Waghodia High School with the help of the IX and X class pupils one in social studies consisting of historical social survey of the town and the other in the mothertongue, *i.e.* Gujarati.

10. Co-curricular Activities

(1) *Faculty Club* :

A slight change has been brought about in the nature of the activities of the Faculty Club, this year, to ensure maximum possible participation of the students. The following six clubs have been started to meet the various needs and interests of the students, under the direction of members of the staff : (1) Dramatic Club, (2) Music and Garba Club, (3) Discussion Forum, (4) Literary Club, (5) Creative Arts Club, and (6) Amateur Scientists Forum.

The Faculty also arranged educational excursions to Delhi, Bhakra-Nangal, Chandigarh, Agra, Jaipur, Ahmedabad, Madras and Trivendrum.

(2) *Educational Administration Club* :

The Faculty of Educational Administration Club draws its members principally from B.Ed. and M.Ed. students who are specialising in the field of educational administration and the students of the Post-graduate Diploma in Educational Administration.

The principal activities of the Club during the term pertained to collection of vital data on educational administration in the new States of

Gujarat and Maharashtra. The Club organised six seminars on different subjects. During the second term some members of the Club were sent to the neighbouring States to study their educational administrative systems and hold talk-cum-discussions with some distinguished educational administrators.

(3) *English Teachers' Club* :

An annual meeting of the English Teachers' Club was held in the New Era High School on Thursday, the 7th September, 1961. Professor M. S. Patel gave a talk on the Revised English Syllabus to the members of the Club.

(4) *Psychological Association* :

The members of the Association visited the Mental Hospital on th August, 1961. A picnic was organised to Jojwa. A number of Sunday activities such as lectures, informal talks and discussions on psychological topics, and field-work being carried on. A question box and a wall paper are some of the other features of the Association.

(5) *Gujarati Sahitya Mandal* :

The Gujarati Sahitya Mandal held a programme consisting of garba, songs, drama, etc. and arranged two symposia during the year, on (1) 'Factors leading to the deterioration of the standards of Gujarati in our high schools', and (2) 'Composition work of students and its correction'. The Mandal also organized a bulletin board and a hand-written magazine. Other important activities of the Mandal were: (1) An exhibition of teaching aids and projects in Gujarati, (2) Discussion and seminars on practical problems of day-to-day class-room teaching, (3) Demonstration lessons by the method masters in some of the local high schools, and (4) a picnic to Ajwa ; etc.

(6) *The Audio-Visual Club* :

A number of good films received from the U.S.I.S., British Information Service and other agencies was shown. The Audio-Visual Education students prepared a number of filmslides, as part of their field work. The students further continued the practice of arranging lobby displays on various themes as part of their field work. One Episcope and one Helioscope (projector for handmade slides which works on sunlight) were constructed by students during this term.

(7) *The Discussion Forum* :

This Forum has been started this year with the object of enabling students to participate in informal and frank discussions regarding various types of problems of the day. The Forum met several times during the course of the year and held discussions.

(8) *Old Students' Association* :

Apart from its usual activities the Association started preparing an elaborate list of all the past students of this Faculty. The Association held its annual tournaments and celebrated its Annual Day on the 28th January, 1962.

11. Tutorial and Class Work

According to the tutorial system in vogue in the Faculty, every B.Ed. and T.D. student is required to meet his tutor for at least one period per week. During this time, the students discuss their curricular difficulties, seek counsel and guidance and get acquainted with new trends of thought in respect of their courses. During this period they also discuss the principles and practice of class teaching with reference to practical work being done by them in various schools. They are required to do some amount of library work in a period specially provided for this work. The Faculty has, for this purpose, requisitioned a few hundred books from the University library and a staff member is always available during the library period for advice and guidance. The tutorial assessment is also based on the performance of candidates at the three tests given during the year and on the contact they have been able to establish, during the course of the year, with the various aspects of education.

12. Practice Teaching

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

During the course of the year, practice lessons were arranged in 19 schools of Baroda.

The off-campus programme was arranged for a week from the 28th September to the 7th October, 1961. The places selected for the purpose were—(1) Aliabada (Dist. Jamnagar), (2) Mobha Road, (3) Kathor,

(4) Vaso (Via-Nadiad), (4) Jhagadia, (6) Devgadhbaria, (7) Mehsana, (8) Rajpipla, (9) Kapadvanj, (10) Waghodia, (11) Halol and (12) Kaira The main items of the work in each centre comprised of: (1) Demonstration lessons, (2) Practice lessons, (3) Discussion on methods of teaching, teaching aids, C.R.C. testing techniques etc., (4) Visits to places of educational interest, (5) Cultural Programme, etc.

13. Field Work

The subject of education being of practical and applied nature, 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.

14. Other Important Events

(1) A Seminar of English Teachers was held from the 13th to the 15th February, 1962 under the joint auspices of the Department of Extension Services and the English Teachers' Club, Baroda. This Seminar carried on the work under the guidance of Messrs. D.H. Spencer and D.P. Byrne of the British Council.

(2) Another Seminar on Guidance and Counselling was held from the 6th to the 9th February, 1962 by the Extension Department and the Guidance and Counselling Centre for University Students. The Seminar was conducted by Dr. D. R. Cook, Fulbright Professor.

(3) The theses of two students—1 in Education and 1 in Psychology were accepted during the year for the award of the Ph.D. degree.

(4) Many distinguished Visitors came to the Faculty during the year.

CHAPTER X—(A) UNIVERSITY EXPERIMENTAL SCHOOL

1. Brief History

The Experimental School was started in the year 1951 with the first two Primary and Secondary classes. 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 teaching and practising laboratory of the Faculty of Education and Psychology, and also as the Observation Laboratory of the Faculty of Home Science.

2. Building

The school continues to be housed on the ground floor of the Faculty building with all facilities of class-rooms, laboratory, craft room, canteen and an Art studio.

3. Courses of Study

The school followed the syllabus prescribed by the State Department of Education and used the activity method in its programme. The study units were followed by the short educational excursions, visits to factories and fields according to the requirements of the unit of study. During the year under report, the school carried out the following Project-studies:

Sr. No.	*Name of the Topic*	*Subject*	*Class*
(1)	Upto 1707 A. D.	Social Studies	IX
(2)	Activity Method of teaching Social Studies to Class VIII. (In collaboration with the Department of Extension Services)	Social Studies	VIII
(3)	Study of Different countries	Social Studies	VII
(4)	A Supervised study of Physiology and Hygiene Unit. (In collaboration with the Physiology Department of Faculty of Medicine)	General Science	X
(5)	Revision Projects in General Science	General Science	V-VII

4. Experiments and Other Educational Activities

(1) *Experiments:*

The School with the help of the Directorate of Extension Programmes for Secondary Education, New Delhi, has planned a major experiment of

teaching General Science through Activity Planning. The pilot report of the experiment has already been submitted to the Directorate of Extension Programmes, New Delhi. The School has received a grant to the extent of Rs. 800 for the purpose. The experiment is in progress and includes a test to be administered to other schools in order to make a comparative study of the evaluation between the class-room teaching and activity teaching.

(2) *Major Projects:*

The school completed the remaining work of the following two projects undertaken last year and the reports have been prepared:

(i) વડોદરાના વિદ્યમાન સાહિત્યકારો

(ii) કવિવર ટાગોર: કલાકાર, કવિ, સાહિત્યકાર અને શિક્ષક.

(3) *Social Studies Club:*

The Club during the year under report, presented (i) a discussion on the political issues in Algeria, and North America, (ii) a panel discussion on the Elections in the Country and (iii) a Project study on contemporary world.

(4) *The Science Club:*

The Club divided itself into 9 batches and prepared a number of articles, equipments, apparatus like a Wooden Apparatus with Slope, an Overflow Vessel, match boxes, a man running on a slope, simple Electric Meter, a binocular, Electric Motor etc., Invisible Fountain, Electric Magnet, a Tin Stand, Tube Stand, Bucket Stand, etc., Volta Meter, a Floating Egg in the Salt Solution, Hoka-Yantra (a Mariner's Compass), Jal-Yantra, Stethoscope, a Slanting Wheel, a Machine working with a wire, etc. The Club also arranged a study visit to Nimeta Filter Beds.

(5) *The Ten-years of the School:*

During the year, the School celebrated the completion of the first decade of its existence (1951-1961). The ten-day celebrations, included three exhibitions, presentation of hobby products, a debate competition, a mock parliament and entertainment programmes.

(6) *The U.S.O. Conference:*

About 40 children of the school participated in the U.S.O. Conference at Delhi and also presented a garba dance which won the second prize in India.

5. Excursions

The School planned a major excursion to Ujjain, Sanchi, Bhopal, Gwalior, Agra, Delhi, Jaipur, Chitorgarh and Udaipur in December, 1961. The school also planned the following compulsory excursions to supplement the study units:

Dabhoi, Shuklatirth, Pavagarh, Mahi Project, Vasad, Vidyanagar and Ahmedabad.

6. Curricular and Co-curricular Achievements

(1) *Other Examinations:*

		Number appeared	*Number passed*
(i)	Shistha Vanchan	44	38
(ii)	U.N. Test	27	25
(iii)	General Knowledge Test	120	87
(iv)	Sanskrit Examinations	31	28
(v)	Ashwad Examinations	33	29

The results of the Elementary Drawing and Intermediate Drawing Grade Examinations were 91.6% and 82% respectively.

(2) *Other Achievements:*

The students of the school participated in the following competitions and won a number of prizes:

(i) International Children's Drawing Competition organised by Shanker's Weekly, New Delhi;

(ii) Art Competitions organised by Shankar Kendra, Ahmedabad and Junior Chamber, Baroda;

(iii) Recitation Competitions organised by Shri Ramkrishna Centre, Baroda;

(iv) Radio Play Competition organised by the A.I.R., Baroda;

(v) The Creative Hobby Group now functioning in collaboration with the Department of Child Development of the Faculty of Home Science is drawing the interest of a very good number of children.

7. Strength of the School

The school had at the close of the year a total of 430 students; 246 boys and 184 girls.

8. Staff

The staff of the school consisted of 1 Principal, 16 teachers, 3 Class III and 7 Class IV servants.

9. Library

The school library consisted of more than 10,000 books. About 2000 books worth about Rs. 1,400 were added during the year. The school continues to maintain the systems of Class libraries, maintaining reading ability records of the children, etc.

10. Activities and Publications of the members of the staff

(1) Mrs. M. M. Amin participated in the Summer School in May, 1962 organised by the Department of Extension Services at Rajpipla.

(2) Shri G. P. Bhatt directed an All India Seminar on Vocational and Educational Guidance organised by the Department of Extension Services during October-November 1961. He is also appointed to work on the committee to prepare a Cumulative Record Card for Indian schools, by the Directorate of Extension Services Programme for the Secondary Schools, Delhi. He is appointed on a Consultative Panel for the School Broadcast Programme of the All India Radio for a period of two years.

(3) Kumari R. M. Tachakara worked as a resource personnel in a Seminar on English directed by Professor Spencer of the British Council.

(4) Shri A. J. Desai is appointed by the Government as a member of (i) the S.S.C. Examination Board of the Gujarat State and of (ii) the General Science Syllabus to frame the new syllabus for the schools.

11. Other Noteworthy Events

During the year under report, the school celebrated the Parichaya Day, Anandotsava, Physical Education Day, Nirvan Din, Independence Day, etc.

CHAPTER XI—FACULTY OF COMMERCE

1. Brief History

The Pratapsinh College of Commerce and Economics which was started in 1942, and was previously affiliated to the University of Bombay, became a constituent part of this University from May, 1949. The Faculty combines liberal education with professional training. The courses of study aim at imparting to the students both a broad background of understanding of their social and economic environment and the basic knowledge of the structure of economic and business activity. The Faculty maintains working relationships with industry and business which are of help to students in their studies. Because of the present level of co-operation with a number of concerns, and also because of the location of this University in the industrially progressive city of Baroda, the students are able to visit many industries, banks etc., for the purpose of observation and thereby make their formal courses more real and purposeful.

2. Building

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

3. Courses of Studies

From June, 1957, the University introduced a three year degree course of instruction leading to the B.Com. degree examination. Post-graduate courses provide for a two year course of instruction leading to the M.Com. degree examination. There is also a one year Post-graduate Diploma in Banking since 1954-55. In addition, the Faculty has been conducting a one year Under-graduate Diploma course in Co-operation. It has also introduced a one year Post-graduate Diploma course in Co-operation from the year 1960-61. There are specialised departments for guidance in Post-graduate Research work for the Ph.D. degree in the field of Banking, Business, Finance, Commerce, Business Administration, Co-operation and Agricultural Economics.

Efforts are made to impart a practical bias in its courses of study. It has introduced an optional group of two papers in Business Administration at the M.Com. and an optional group of three papers in Business Administration at the B.Com.

Facilities for practical training in the local banks are provided to students of the Diploma in Banking. A similar programme of practical training is developed for both the under-graduate and post-graduate Diplomas in Co-operation. Students of Business Administration are required to spend an appropriate period in the study of some problem in industry or business and submit a dissertation in part fulfilment of requirements for this course. The Faculty is thus progressively coping up with new trends in education for Commerce and Business.

General Education has been made a compulsory part of the curriculum for the First and Second Years of the three year degree course, *i.e.*, B.Com. The programme is formulated 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)	1*	—	1
F.Y. B Com.	313	10	323
S Y. B.Com.	381	6	387
T.Y. B.Com.	342	6	348
Post-graduate Diploma in Banking	4	—	4
Post-graduate Diploma in Co-operation	12	—	12
Junior M.Com.	22	1	23
Senior M.Com.	39	—	39
Ph.D.	3	1	4
Total	1117	24	1141

5. Staff

During the year the staff of the Faculty consisted of 1 Professor, 6 Readers, 13 Lecturers, 4 Part-time Professors, 2 Part-time Lecturers,

* This excludes 17 students of S. Y. B.Com. who have been permitted to join Under-graduate Diploma in Co-operation.

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 Departments respectively. Some teachers of this Faculty were taking periods in the Faculty of Technology and Engineering.

6. Publication by the members of the staff

(1) *Articles:*

Name of the Teacher	*Subject of Paper or articles*	*Name of the Journal wherein published with month of publication, etc.*
Dr. D. K. Shukla	Capital Formation and Economic Growth in underdeveloped countries	M. S. University Journal Social Sciences Number July, 1962.

(2) *Books:*

Name of the Teacher	*Name of the Book*	*Name of the publisher with month of publication*
Dr. D. K. Shukla	A Text-Book of Monetary Economics	Shiv Pustakalaya, Baroda, July, 1961

7. Co-curricular activities

The students of the Faculty went on an educational tour and visited Industrial Fair at Delhi, Agra, Chandigarh, Bhakra Nangal Dam, etc.

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) The Dena Bank Trophy Debate was held on the 23rd September, 1961. The subject of the debate was "In the opinion of this house, History, Geography and Culture of India do not encourage national integration". Eight Commerce Colleges in Gujarat participated in the debate. The trophy was won by the H. L. College of Commerce and Economics, Ahmedabad.

(2) The Faculty participated in all the items of competition during the celebration of the University Youth Festival and won the first and the second prizes in Drama and Group Song Competitions respectively.

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 lakhs 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. Building

The College is housed in a spacious modern three storeyed building. Each floor has a lecture hall to accommodate about 140 students. Besides, there is one main lecture hall with an accommodation for 400 students. The Departments of Anatomy and Physiology are on the second floor, while Pathology and Pharmacology together with a part of Ayurvedic Research Unit are accommodated on the first floor. The ground floor consists of the Department of Preventive and Social Medicine, Administrative Blocks, the Library, Students' Common Rooms and Canteen. In addition to spacious laboratories for each department, there are well equipped museums for the Anatomy, Pathology and Preventive and Social Medicine Departments. 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. Shree Sayaji General Hospital, which started with very few beds in 1865, is attached to the Medical College for clinical instruction. It has a strength of 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 one Skin/V.D., one E.N.T., one Orthopaedics and one Anaesthesia Units where the students are posted for their Clinical terms.

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

The following building works are nearly complete:

(1) O.P.D. for old cases
(2) E.N.T. Wards
(3) Library—Extension on first floor of the old O.P.D.
(4) Quarters for Professors and Lecturers
(5) Quarters for Class III and Class IV staff.

3. Courses of Studies

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

(1) Degree	*Subject*	*Duration of the Course*
M.D.	Medicine	3 years after registration
	Physiology	3 years after registration
	Pharmacology	3 years after registration
	Pathology	3 years after registration
	Obstetrics and Gynaecology	3 years after registration
M.S.	Surgery	3 years after registration
	Anatomy	3 years after registration
	Orthopaedics	3 years after registration
Ph.D.	Pathology	3 years after registration
	Pharmacology	3 years after registration
	Physiology	3 years after registration
	Bio-chemistry	3 years after registration
M.Sc.	Anatomy	2 years after registration
	Pathology	2 years after registration
	Pharmacology	2 years after registration
	Physiology	2 years after registration
	Biochemistry	2 years after registration
(2) Diploma		
D.G.O.	Obstetrics and Gynaecology	1 year after registration
D.O.	Ophthalmology	1 year after registration
D.A.	Anaesthesia	1 year after registration
D.C.P.	Pathology	1 year after registration
T.D.D.	Tuberculosis Diseases	1 year after registration
D.L. & O.	Otolaryngology	1 year after registration
D.V. & D.	Venereal Diseases	1 year after registration
D.M.R.E.	Medical Radiology and Electrology	1 year after registration
D.Ped.	Paediatrics	1 year after registration

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 1961-62 are as under :

	Men	Women	Total
(1) *Degree :*			
First Year	44	9	53
Second Year	22	1	23
Third Year	41	16	57
Fourth Year	47	16	63
Fifth Year	82	16	98
Total	236	58	294
(2) *Post-graduate Diploma :*			
D. G. O.	7	8	15
D. O.	8	–	8
D. A.	2	–	2
D. C. P.	4	–	4
T. D. D.	1	–	1
D. L. & O.	14	–	14
D. V. & D.	7	–	7
D. Ped.	7	1	8
Total	50	9	59
(3) *Post-graduate Degree :*			
M.D.	26	7	33
M.S.	12	–	12
M.Sc.	1	–	1
Total	39	7	46
Grand Total	325	74	399

5. **Staff**

The staff of the College consists of a Dean, 9 Professors, 12 Lecturers, 17 Junior Lecturers, 12 Honoraries, 16 Assistant Honoraries, 10 full-time Specialists, 10 full-time Officers, 35 Class III and 47 Class IV servants.

6. **Library and Reading Room**

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

Sr. No.	Particulars	Number
(1)	Average number of students making use of Library	43
(2)	Average number of teachers making use of Library	25
(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 Rs.
(1)	Books (including back number of Journals) as on 1-4-1961	8378	1,35,572=82
(2)	Books written off during the year	—	—
(3)	Books added during the year	527	7,468=82
(4)	Books as on 31-3-1962	8905	1,43,041=64
(5)	Amount spent on binding during the year	253	800=20
(6)	Journals subscribed during the year	123	7,913=81
(7)	Total amount spent for Library and Reading Room during the year	—	16,182=83

7. **Museum, Laboratory, Studios etc.**

Sr. No.	Item	Cost of equipment, etc. as on 1-4-1961	Cost of equipment etc. written off during the year	Cost of equipment, etc. added during the year	Cost of equipment, etc. as on 31-3-1962
		Rs.	Rs.	Rs.	Rs.
1	Museum (Anatomy, Physiology, Pharmacology, and Pathology)	3,20,852	10	2,540	3,23,382
2	Laboratories	6,56,777	1,065	96,484	7,52,196
3	Studios	13,483	—	—	13,483
	Total :	9,91,112	1,075	99,024	10,89,061

8. **Publications by the Members of the Staff**

Department of Medicine :

Dr. P. M. Luhar and Dr. M. H. Tailor	Observation on cases of sedema with reference to Hydrochlorothiazide and Mersalyl	Journal of Association of Physicians of India, Volume 10, No. 3, March, 1962

9. **Literary, Cultural and Other Activities**

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

10. Co-curricular Activities

(a) The students of this College participated in the University Week Celebrations in December, 1961 and also in the Inter-Faculty Tournaments and many of them won prizes.

(b) The Twelfth Annual Social Gathering of the College was held on the 17th January, 1961 in the Mahatma Gandhi Nagar Griha. Shri Maneklal Shah, Minister for Health and Industries, Gujarat State was the Chief Guest for the function.

11. Other Important Events

(1) Deputation for Higher Studies/Training :

Dr. P. T. Acharya and Dr. B. S. Verma deputed in the year 1960 continued their higher studies in U. K. Dr. A. D. Joseph after completing his studies during the period from October, 1960 to September, 1961 returned from abroad and was appointed as Dean, M. P. Shah, Medical College, Jamnagar. Dr. B. A. Sayed and Dr. (Kumari) M. R. Varde proceeded to U. K. in the months of September and December, 1961 respectively for higher studies.

(2) *Conferences* :

The following Conferences were held in the Medical College, Baroda during the period from the 27th to the 31st December, 1961 :

(a) Annual Conference of the Association of Surgeons of India
(b) Annual Conference of the Indian Society of Anaesthetists
(c) Annual Conference of the Association for the Advancement of Medical Education
(d) Annual Meeting of the Central Committee for Food Standard
(e) Annual Conference of Indian Public Health Association.

These Conferences brought a number of eminent visitors from India and abroad to this Institution.

(3) *Symposia* :

The College arranged two symposia on 'Allergy' on the 8th September, 1961 and 'Your Health' on the 1st and the 5th December, 1961.

CHAPTER XII (B)—SHETH UJAMSHI PITAMBERDAS AYURVEDIC RESEARCH UNIT

1. Brief History

The Sheth Ujamshi Pitamberdas Ayurvedic College was established on the 28th June, 1922 in Patan with the help of a donation from Sheth Ujamshi Pitamberdas Modi. In 1952, the M.S. University of Baroda took over the research work done there on condition that the then Government of Bombay should give an annual grant of Rs. 36,000 for maintenance and organisation of an Ayurvedic Research Unit at the Medical College, Baroda. The Research Sub-committee of the Unit completed the preliminary organisation work by the end of June, 1954 and thus Sheth Ujamshi Pitamberdas Ayurvedic Research Unit began to function in the same year.

2. Building

The museum laboratory and administrative office of the Unit are accommodated in the two halls on the first floor of the eastern wing of the Medical College. The Rasa-shala is housed in a separate building constructed in the year 1954 by the University at a cost of Rs. 55,000 close to the Medical College. A new north wing for the Out-patient Department of the Unit was added to the Rasa-shala block at a cost of Rs. 25,000 in the year 1957-58.

3. Staff

The staff of the Unit consists of a Head (Honorary), 1 Senior Research Vaidya, 2 Junior Research Vaidyas, 1 Research Medical Officer, 1 Research Assistant in Pharmacology, 1 Research Assistant in Chemistry, 4 Class III and 6 Class IV servants. The Dean of the Faculty of Medicine, Baroda works as the Honorary Head of the Unit.

4. Functions of the Unit

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

5. Library

This year 74 new books have been added bringing the total to 2491 books. 13 Ayurvedic journals were also subscribed during the year. 12 steel show cases have been purchased for the Library during the year.

	Particulars	Number	Cost in Rs.
1	Books (including back numbers of journals as on 1-4-1961)	2417	3,258=00
2	Books written off during the year	Nil	—
3	Books added during the year: Books 74, Journals 33	107	1,030=00
4	Books as on 31-3-1962	2524	4,288=00
5	Journals subscribed during the year	13	72=00
6	Amount spent on binding during the year	Nil	—
7	Total amount spent for library during the year	—	1,102=00

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. Collated literature and publications from this Unit are also arranged. There are about 1000 Ayurvedic specimens, 54 Herbarium frames, 75 specimen jars (fresh herbs preserved in solution), 15 charts and 2 maps. About 300 specimens have been collected for the herbarium and are classified. A relief map of India showing the distribution of important medicinal plants in India is also exhibited in this museum.

7. Research

(1) *Out-patient Department* :

During the year 5289 patients attended the Unit for treatment. The disease spectrum of patients who attended this Department was as follows:

ज्वर–जीर्णज्वर–पाण्डुरोग–शोथ–उदर–अग्निमान्द्य–अतिसार–ग्रहणी–कास–श्वास–शूल–परिणामशूल–ग्रन्थि–विद्रधि–दुष्टव्रण–कुष्ठ–वातरक्त–कृमि–आमवात–सन्धिवात–प्रमेह–मधुमेह–उन्माद–अपस्मार पक्षाघात–राजयक्ष्मा–अर्श–अर्बुद–स्थौल्य–प्रदर–गंडमाला–अपची

(2) *In-patient Department* :

Clinical research : 50 patients were admitted and studied during the year as shown below :

तमकश्वास (ट्रोपिकल इओजिनोफिलिया) १२, परिणामशूल–उदरशूल ५, अर्धाङ्गवात ३, पाण्डुरोग ४, प्रवाहिका १५, प्लीहावृद्धि १, शाखागत–कामला १, जीर्णसन्धिवात ६, यकृद्दाल्युदर–जलोदर १, मधुमेह १, जीर्णकास १

(3) *Research Activities* :

(*A*) *Clinical trials of well-known drugs*

(i) Amavata-Sandhivata: Treatment of Rheumatoid Arthritis with pure Guggulu pounded in ghee along with the decoction of Yashtimadhu *i.e.* Liquorice root. Six cases were admitted and studied during the year. The work is in progress.

(ii) Tamaka-Shwasa (Tropical Eosinophilia): Purified Arsenic 'शोधितमल्ल' was tried in 10 cases.

(iii) Ankylostoma duodenale; 15 cases were treated by Palashbij Churna, Vidanga Churna and Tikta-shigru Churna.

(iv) Diabetes Mellitus: Two drugs (1) Bilwa-patra and (2) Madhunashini were tried.

(v) Observation on effect of Garmalo (Cassia fistula) in skin diseases—Kustha.

(vi) Preliminary clinical trials with an indigenous drug Nardostachys Jatamansi in mental disorders are completed.

(vii) Effect of Pichachhabasti on the course of Dysenteries, particularly in relieving tenesmus. 20 cases have been studied.

(viii) Effect of Anuvasanbasti on gastric acidity, especially in cases of hyperacidity with Duodenal ulcer. 3 cases have been studied.

(ix) Physiological effect of Prastarsweda: 8 cases have been studied.

(x) Raktaja Roga and Raktavasechana with Leeches 'जलौकावचारण': 17 cases have been studied.

(xi) A review on absorption in the large intestine according to Ayurveda and modern science was also made.

(*B*) *Research in Fundamental Theories of Ayurveda*

(i) Study of रस-गुण-वीर्य-विपाक of drugs with reference to their pharmacological action was taken in hand. 10 drugs of तिक्तरस, कषायरस and कटुरस of each respectively were studied with regard to the identification and recognition of their रस.

(ii) The work of Vipaka experiment of तिक्त-कषाय and कटु Rasas—10 drugs of each respectively by incubation method with pancreatin is under progress.

(iii) Observations regarding Vipaka by the Ayurvedic method by measuring the quantities of urine and stool and by noting symptomatic changes in the subjects who tasted these तिक्त-कटु and कषाय Rasas have been made.

(C) *Pharmacological Research*

(i) Effect of "Garmalo" (Cassia fistula) in skin diseases (Kushtha): All the cases were given decoction of the cassia fistula fruit, one ounce three times a day orally. Besides a 10% ointment of the fruit powder prepared in 'siktha taila' was applied locally.

Preliminary work:

Uptil now 84 patients are treated in O.P.D, 4 in I.P.D. and 4 patients in I.P.D. with Pathological findings. Details of 24 patients who have completed the scheduled course of 15 days of treatment are given below:

	Disease	*Improved*	*Not improved*
1.	Tinea	12	8
2.	Scabies	1	—
3.	Ecazema	2	—
4.	Neurodermatitis	1	—
	Total	**16**	**8**

The preliminary study in Tinea patients showed notable improvement; the scabies and erruptions disappeared and there was no burning sensation.

(ii) Antipyretic activity of certain Ayurvedic remedies: Using Vuchhanag (Aconitum ferrox) and Garmalo (Cassia fistula) root powder on white albino rats weighing between 100-200 gm., by BURN'S (1952) Method and comparing activity of Cassia fistula with that of Amidopyrine, Acetanilide and Aspirin, the order of potency was:

Amidopyrine > Acetanilide > Aconite > Aspirin > Cassia

(iii) Nilkanthi (Ajuga bracteosa) alkaloids:

The alkaloidal fraction of the Ajuga bracteosa Wall ex Benth (N.C. Labiatea) has been isolated from the plant.

(The cardiostimulant action of the alkaloidal fraction was studied on frog heart, isolated rabbit auricle and electrically driven isolated rat ventricle in normal as well as reserpinised animals). It is observed that

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the alkaloidal fraction has positive inotripic activity and it is abolished by pretreatment with Dichloroisoproterenol (DCI) and absent in reserpinised preparations. The positive inotropic and chronotropic actions of the alkaloidal fraction are in all likelihood due to the liberation of catacholamines from the chromaffin tissues in the heart.

(iv) "Diuretic Activity" of certain Ayurvedic remedies:

(1) Apamarg (Achyranthes aspera)—Decoction of the powdered plant 50 mg./kg. orally

(2) Kantakari (Solanum xanthocarpum)—Decoction of the powdered plant 50 mg./kg. orally

(3) Galjibhi (Elephantopus scaber)—Juice of leaves 50 cc./kg. orally

Results with the above compounds were not encouraging.

(v) Antispasmodic activity of 1. Kantakari (Solanum xanthocarpum) and 2. Erandmool (Roots of castor plant) on frog rectus muscle Ach induced spasm was decreased in presence of the aqueous extracts of the above drugs. Similar results were obtained with virgin rat uterii. The work is in progress.

(D) *Pharmacognosy*

A separate laboratory and a drugs-drying store room, optical instruments, chemicals, books, etc. are set apart for this work.

8. Work done by the Allied Departments

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

(1)	Dr. B. T. Dave, Dr. J. M. Desai and Vaidya R. Y. Pandit	Clinical trials of Ayurvedic Drugs: Guggulu pounded in ghee with Yashatimadhu Quath in Rheumatic diseases mainly Rheumatoid Arthritis
(2)	Dr. G. J. Patel, Vaidya D. K. Pathak and Shri S. S. Karbhari	Effect of Garmalo (Cassia fistula) in skin diseases (Kushtha)
(3)	Dr. O. D. Gulati	(i) A study of antipyretic activity of certain Ayurvedic remedies is undertaken in rats by using the method of BURN (1952)

(ii) A study of Pharmacological activity of Nilkanthi (Ajuga bracteosa) alkaloids isolated in the laboratory

(iii) A study of the "Diuretic Activity" of certain Ayurvedic remedies

(iv) Antispasmodic activity of certain Ayurvedic drugs

9. Rasashala

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

अभ्रकभस्म–शतपुटी, तिलादिमोदक, नित्योदयरस, मरिच्यादि गुटिका, एलादिगुटिका, सप्तामृतलोह, पिप्पल्यादि तैल, बलातैल, दशमूलतैल, कर्पूरवटी, सितोपलादि चूर्ण, हिंग्वाष्टक चूर्ण, मृगशृंगभस्म, शतमूल्यादि वटी.

10. Garden

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

11. Publications

Name of the contributors	*Title of Paper*	*Publication*
(1) Vaidya M. K. Brahmabhatta	A review of absorption in the large intestine as described in Ayurveda and modern science	"Bhishagbharati," February, 1962
(2) Dr. Y. B. Dixit, Dr. M. G. Amin and Vaidya D. K. Pathak	Preliminary clinical Trials with an Indigenous drug Nardostachys Jatamansi in Mental disorders	"The Indian Practitioner," November, 1961
(3) Vaidya D. K. Pathak and Dr. J. M. Desai	Effect of "Bilwapatra" and "Madhunashini" on course of Diabetes Mellitus	"Nagarjuna," January, 1962
(4) Vaidya Y. R. Pandit	Concept of Rasa and its actions	"Indian Medical Gazette," Vol. 1, No. 11, March, 1962 and "Nagarjuna," March, 1962.

CHAPTER XIII—FACULTY OF TECHNOLOGY AND 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. The Kalabhavan made its beginning by starting classes in Drawing, Carpentry, Dyeing and Calico Printing and within a few years developed 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 its newly constituted Faculty of Technology and Engineering. In keeping with the development and progress in the structure and pattern of technical education in the country, this Faculty has modified old courses and added new ones as shown below:

(1) Transferred the Fine Arts Section to the Faculty of Fine Arts from June, 1949;

(2) Started 3-1/2 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 half years duration;

(4) Started four year degree course in Textile Engineering—B.Text. (Eng.) 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 Masters courses in Civil, Mechanical and Electrical Engineering (C.M.E.) from November, 1956;

(10) Started a four year integrated degree course in Civil, Mechanical and Electrical Engineering, Textile Engineering and Textile Technology—B.E. (C.M.E.), B. Text. (Eng.) 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 with the new wing,
(2) The Hydraulic and Metallurgical Laboratories,
(3) The Gas Room,
(4) The Workshop and Textile Technology and Textile Chemistry Premises.

The construction of the building for Non-Resident Students' Centre was completed during the year.

3. Courses of Studies

The Faculty provides for the following courses:

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

4. Number of Students

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

Year/Class	*Men*	*Women*	*Total*
(1) *Certificate*			
Turner & Fitter II year	50	—	50
Weaving I year	5	—	5
Weaving II year	9	—	9
Dyeing I year	7	—	7
Dyeing II year	10	—	10
Total	81	—	81
(2) *Diploma*			
Textile Chemistry I year	35	—	35
Textile Chemistry II year	27	—	27
Textile Chemistry III year	68	—	68
Pre-Textile Technology	37	—	37
Textile Technology I year	36	—	36
Textile Technology II year	34	—	34
Textile Technology III year	41	—	41
Total	278	—	278
(3) *Degree*			
F.E. (Civil)	123	1	124
F.E. (Mechanical)	67	—	67
F.E. (Electrical)	66	—	66
F.Text. (Eng.)	19	—	19
F.Text. (Tech.)	14	—	14
S.E. (Civil)	115	—	115
S.E. (Mechanical)	92	1	93
S.E. (Electrical)	72	—	72
S.Text. (Eng.)	10	—	10
S.Text. (Tech.)	18	—	18
T.E. (Civil)	118	1	119
T.E. (Mechanical)	109	—	109
T.E. (Electrical)	97	—	97
T.Text. (Eng.)	13	—	13
T.Text. (Tech.)	9	—	9
B.E. (Civil)	101	—	101
B.E. (Mechanical)	133	—	133
B.E. (Electrical)	74	—	74
B.Text. (Eng.)	15	—	15
B.Text. (Tech.) New	5	—	5
B.Text. (Tech.) Old	1	—	1
B.Arch. I year	46	5	51
B.Arch. II year	54	8	62
B.Arch. III year	42	5	47
B.Arch. IV year	28	1	29
B.Arch. V year	57	—	57
Total	1498	22	1520

Year/Class	Men	Women	Total
(4) *Post-graduate Degree*			
M.E. (Civil) Highway & Bridge Engg.	2	—	2
M.E. (Civil) Advance Irrigation and Hydraulics	4	—	4
M.E. (Civil) Soil Mechanics	5	—	5
M.E. (Civil) Public Health Engg.	5	—	5
M.E. (Mechanical)	7	—	7
M.E. (Electrical)	4	—	4
Total	27	—	27
(5) *Ph.D.*			
Textile Chemistry	1	—	1
Total	1	—	1
Grand Total	1885	22	1907

5. Staff :

During the year the staff of the Faculty consisted of 12 Professors, 16 Readers, 54 Lecturers, 4 Part-time Lecturers, 52 Demonstrators, 109 Class III and 82 Class IV servants.

6. Library .

(1) *Acquisition Notes* :

(A) *Books* : The recurring grants from the University remained the same during the year under report. The grant of Rs. 500,00 given by the University Grants Commission in September, 1959 for the expansion of the Library facilities was fully utilised.

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

	Books	*Bound Periodicals*	*Pamphlets*	*Maps and Manuscripts*	*Total Cost in Rs.*
Number at the beginning of the year	19,206	2,037	—	—	2,99,653=11
Number added during the year	789	164	—	—	17,986=02
Total	19,995	2,201	—	—	3,17,639=13
Number written off from the records	—	—	—	—	—
Number remaining at the end of the year	19,995	2,201	—	—	3,17,639=13

(B) *Periodicals* : The total number of Technical and Engineering periodicals subscribed for during the year stands at 90. About 164 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 11-00 a.m. to 10-00 p.m. They are kept open on holidays and Sundays to give more facilities to the students preparing for examinations during the examination period.

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

(1) Post-graduate and Research Students	37
(2) Under-graduate Students	1,491
(3) Faculty and Polytechnic Teachers	150
(4) Others	2
Total	1,688

The Statistics of the use of the Library are given below :

(1) Daily average number of readers visiting the Library	250
(2) Average number of books issued per day for home-reading	62
(3) Average number of books issued per day from curricular collection	80
(4) Average number of books issued per day for reference	30
(5) Total average number of books issued per day for reading	172

7. Museum, Laboratories, Studios, Workshops etc.

Sr. No.	*Item*	*Cost of Equipment etc. as on 1-4-1961*	*Cost of Equipment etc. written off during the year*	*Cost of Equipment etc. added during the year*	*Cost of Equipment etc. as on 31-3-1962*
		Rs.	Rs.	Rs.	Rs.
1.	Laboratories, Workshop, Studios, etc.	33,86,711=04	—	47,498=80	34,34,209=84

8. Publications by the members of the staff

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

(1) *Articles/papers :*

Name/s	*Title*	*Name of the Journal wherein published with month of publication*
(a) Professor R. L. Desai and Shri K. R. Kirtane	Utilization of Indian Cotton Linters for the Preparation of Cellulose-derivatives for finishing	The Indian Textile Journal, Bombay, September, 1961
(b) Shri Piyush Parikh	(i) An approach to expansive Soil problems	Gujarat P. W. D. Journal Nav Nirman, Narmada Number, April, 1961
	(ii) Vibration Controlled Foundation	Institution of Engineer Annual Number, 1961-62
(c) Dr. R. T. Shah	Flanged Connection for pressure Vessels	A.M.I.E. (India) Journal, December, 1961

(2) *Books :*

Name/s	*Title*	*Name of Publisher with month of publication*
(a) Shri M. B. Achwal	किमया (Kimya) (Marathi)	Mauj Publications Ltd., Bombay, October, 1961
(b) Dr. R. T. Shah	(i) Advanced topics in Strength of materials	Acharya Book Depot, August, 1961
	(ii) Mathematical and Steam Tables	Acharya Book Depot, February, 1962

9. Literary, Cultural and other Activities :

(1) *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 our students have won various prizes and trophies at such contests like the Vice-Chancellor's Trophy, Wadia Trophy etc.

(2) *Elocution contests :*

(a) One student of the Civil Engineering Department won the second prize and the third prize at the Baroda College Silver Jubilee Debate and the Professor N. M. Wadia Trophy Debate in English respectively.

(b) Three students of the Architecture Department participated in the Art Exhibition, 1962 (Students Category) organised by the Government of Gujarat and won cash prizes of Rs. 200, Rs. 150 and Rs. 100.

(c) One student of the Architecture Department participated in the Art Exhibition, 1962 (Open Competition) organised by the Gujarat Government and won the second prize of Rs. 750.

(d) Another student of the Architecture Department participated in the Art Exhibition (Open Competition) organised by the Government of Maharashtra and won the second prize.

(3) *Students' Chapter The Institution of Engineers (India) :*

The Students' Chapter started functioning during the academic year with good number of 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	23-9-1961	Shri Nambiar, Chief Engineer, Concrete Association of India, Bombay	(i) Bearing for Concrete Bridges (ii) Prestressed Concrete Construction
2	4-1-1962	Shri N. D. Daftary, Chief Engineer (Irrigation), Gujarat State, Ahmedabad	Impressions of my recent tour to foreign countries (U.S.A. and France)
3	5-3-1962	Shri S. C. Desai, Director, C.W.P.C., Poona	Role of Hydraulic Models in Development of water resources in the country
4	6-3-1962	Shri D. V. Jagolekar, Adviser, C.B.I.P.	River training and flood control
5	6-3-1962	Shri K. Seetharamiah, Indian Institute of Science, Bangalore	Cavitation

(4) *Seminars :*

Generally the students of the final year Degree and Diploma classes take part in seminars. Students prepare and read papers on a selected theme relating to the subjects of their study and participate actively in the discussions. The Civil, Mechanical, Electrical, Architecture and the Textile Chemistry Departments arranged 12, 10, 12, 8 and 23 seminars respectively during the year under report.

(5) *Faculty Socials*:

The Annual Faculty Day was celebrated on the 18th January, 1962. Shri. U. J. Bhatt, Chief Engineer and Joint Secretary, P.W.D., Gujarat State was the Chief Guest on the occasion.

10. Co-curricular activities

(1) *Excursions and tours*:

Students of B.E., T.E., B.Text. Engg., B.Text. Tech., T.Text. Engg., T.Text.Tech., Architecture II, III and IV year Degree classes and all the final year Diploma classes in Textile and M. E. students were sent out on an educational tour to places of particular interest in their respective branches of study, the period in each case extending upto about 2 weeks.

(2) *Exhibition of Educational Films*:

The Faculty has the stock of 16 films on various subjects of Educational interest and also 14 strips of 35 m.m. films. Every year additional films are taken on loan for use from different organisations such as British Information Service, United States Information Service, Burmah Shell, Visual Aid Department of Maharashtra State and the Films Division, Ministry of Education, Government of India, New Delhi. 37 films were shown during the year at the Faculty:

(3) *Publication of Faculty Magazine*:

The Faculty Magazine was published during the session 1961-62.

(4) *Dramatic and Music Association*:

This year the Association participated in the Inter-Faculty competitions held by the University Week Celebration Committee. The Association took part in (a) Group Song, (b) Drama and (c) Garba competitions and won the third prize for drama and a special prize for individual performance.

(5) *Co-operative Stores*:

The working of the Store was satisfactory. The total sale during the year amounted to Rs. 21,175=45 nP.

11. Tutorials and Clas-swork

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 the University, the marks obtained by the candidates in their terminal examinations, tutorials, class-work and tests are taken into account as below:

Theoretical subjects: 30 percent of the maximum marks for the examination in each subject (10 percent for year's work of the Ist term, 10 percent for the terminal examination and 10 percent for year's work of the IInd term) for degree classes while 20 percent of the maximum marks for the examination in each subject (6 percent for year's work of the Ist term, 7 percent for terminal examination and 7 percent for year's work of the IInd term) for Diploma classes.

12. Other Important Events

(1) *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 increased number of students. The University Grants Commission has also sanctioned a grant of Rs. 45,000 for providing facilities for High Voltage work for the first Degree course in Electrical Engineering Department of this Faculty during the year under report.

(2) Many distinguished visitors came to the Faculty during the year.

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.

The Department of Museology was established in 1952 for giving training in Museology at the post-graduate level with a view to preparing personnel for various administrative and technical posts in Museums in the country.

2. Building

The Faculty is located in Pushpa Baug on the University Road. It comprises (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, (9) Additional Painting Studio and (10) Additional Sculpture Studio.

3. Courses of Studies

The Faculty offers the following courses:

(1) Post-graduate Degree Courses 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 Courses in (a) Painting, (b) Sculpture and (c) Applied Arts;

(4) Degree Courses in (a) Painting, (b) Sculpture and (c) Applied Arts;

(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	4	—	4
Second Year	6	3	9
Total	10	3	13
(2) Diploma			
First Year	19	2	21
Second Year	13	1	14
Third Year	13	1	14
Fourth Year	13	3	16
Total	58	7	65
(3) Post-Diploma			
Junior	3	—	3
Senior	1	—	1
Total	4	—	4
(4) Degree			
Preparatory	30	8	38
First Year Specialization	14	4	18
Third Year	15	3	18
Fourth Year	14	6	20
Total	73	21	94
(5) Post-graduate Degree			
Junior	2	—	2
Senior	8	—	8
Total	10	—	10
(6) Post-graduate Diploma			
Junior	5	1	6
Senior	4	—	4
Total	9	1	10
Grand Total	164	32	196

5. Staff

During the year the staff consisted of 2 Professors, 4 Readers, 15 Lecturers, 2 Honorary Professors, 1 Part-time Photographer, 2 Demonstrators, 1 Tutor, 1 Printer, 2 Technicians, 1 Technical Assistant, 1 Taxidermist, 6 Class III and 15 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. Noteworthy acquisitions during the year: (1) The Picture History of Painting by Janson, (2) The oldest Rajasthani Paintings from Jain Bhandars by Sarabhai Manilal Navab.

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

Particulars	*Books (including back number of Journals)*	*Pamphlets*	*Total Value in Rs.*
Number at the beginning of the year	3,353	94	49,309=46
Number added during the year	137	—	2,991=61
Total	3,490	94	52,301=07
Number withdrawn from the record	—	—	—
Number at the end of the year	3,490	94	52,301=07

(b) *Periodicals*:

The total number of periodicals and scholarly journals subscribed to, now stands at 29. The total amount spent for subscription of periodicals is Rs. 951=79. The total amount spent for binding is Rs. 420=75.

(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. Museum, Laboratory, Studios, Workshops, etc.

S. No.	*Item*	*Cost of equipment as on 1-4-1961*	*Cost of equipments written off during the year*	*Cost of equipment added during the year*	*Cost of equipment as on 31-3-'62*
		Rs.	Rs.	Rs.	Rs.
1.	Studios, Workshops, Painting, Sculpture Applied Arts	1,32,847=22	—	19,068=90	1,51,916=12
2.	Museology	27,797=16	—	18,003=19	45,800=35
	Total	1,60,644=38	—	37,072=09	1,97,716=47

8. Publication by the members of the staff

(1)	Sarvashri S. M. Nair and V. L. Devkar	Problems in the Chemical conservation of idolised marble sculptures	Bulletin, Museum and Picture Gallery, Baroda, Vol. XIV, 1962
(2)	Shri V. H. Bedekar	Technique of background Painting in the habitat-Group case of Rabaris in the Baroda Museum	Bulletin, Museum and Picture Gallery, Baroda, Vol. XIV, 1962

9. Literary, Cultural and Other Activities

During the year the Faculty arranged a number of lectures and demonstrations by experts, some of which are mentioned below:

	Name	*Number of Lectures*	*Subject*
(1)	Shri Gurucharansing, Ceramic Artist, New Delhi	3	Pottery and Ceramics
(2)	Mrs. Elis Grilli, Art Critic, U.S.A.	1 with slide show	Contemporary Art in Japan—A Survey
(3)	Professor Robert Hansen, U.S.A.	1	Painting
(4)	Miss Beatrice Wood, Ceramic Artist, U.S.A.	1	Art Pottery
(5)	Mr. Miller, U.S.A.	1	Contemporary Social Trends in America with emphasis on Art Appreciation
(6)	Shri V. L. Devkar, Asstt. Director, Salar Jung Museum, Hyderabad	28	Museum Administration

	Name	Number of Lectures	Subject
(7)	Shri Pramod Chandra, Keeper, Art Section, Prince of Wales Museum, Bombay	3	(i) Museum and Indian Art (ii) Modern Display and Indian Museum (iii) Mughal Painting of the Akbar Period
(8)	Shri William Fredrick, Casmeri, Baroda	20	Methods of preparing miniature museum models, techniques of preparing models, casts and replicas
(9)	Dr. S. T. Satyamurti, Superintendent, Government Museum, Madras	4	Nature and Scope of Collections
(10)	Dr. Warning, Visiting Professor of Textiles and Clothing in Faculty of Home Science	1	Costumes in Museum
(11)	Dr. P. L. Rousell, Regional Representative of the British Council	1	Contemporary Painting in England

Professor V. R. Amberkar, Art Critic from Bombay 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.

10. Co-curricular Activities

(1) The Faculty arranged three study-tours to (i) Ajanta and Ellora, (ii) Delhi, Chandigarh, Agra and Mathura, and (iii) Bombay, Allahabad, Varanasi, Patna, Calcutta and Nagpur for the students of the Departments of (i) Painting and Sculpture, (ii) Applied Arts and (iii) Museology respectively.

(2) The following exhibitions were arranged in the Faculty:

(i) Japanese Children's woodcut
(ii) Paintings of Mrs. Youenne Cracht from Holland
(iii) Tagore's Paintings and Books
(iv) Calendars, Posters, Press Layouts, Folders, etc.

(3) The Faculty staged a drama 'Arup Ratan' of Dr. Rabindranath Tagore on the 31st January, 1962 on request from the Government of Gujarat.

(4) During the Faculty Day Celebrations, 'Fun Fair' programme was arranged for auction sale of works. A sum of Rs. 1,491 was collected from the sale and credited to the Poor Students' Fund of the Faculty.

11. Other Important Events

(1) *Awards and Prizes*:

10 students and 5 members of the staff of the Painting Department, 6 students of the Applied Arts Department, 2 students of the Photography Section, 9 students and one member of the staff of the Pottery Section, 6 students and one member of the staff of the Sculpture Department won prizes, gold or silver or bronze medals, etc. in various exhibitions, shows and competitions.

(2) The following three non-collegiate students of the Sculpture Department were the Government of India Cultural Scholars during the year:

1. Shri R. R. Panchal
2. Shri R. R. Kaneria
3. Shri K. S. Chhatpar.

(3) Professor N. N. Choudhary, Head of the Sculpture Department was deputed by the Lalit Kala Akademi, New Delhi, to participate in the International Seminar on Sculpture in Yugoslavia.

(4) Professor N. N. Choudhary and Shri K. G. Subramanian of the Department of Painting were selected to send their works to the well-known international exhibition of 'San Paolo Bionalle', Brazil. Shri K. G. Subramanian was awarded a silver medal at the exhibition.

(5) Many distinguished visitors came to the Faculty during the year.

CHAPTER XV—FACULTY OF HOME SCIENCE

1. Brief History

The former Baroda State Government created on the 17th December, 1948 a Women's Educational Trust Fund to establish a Home Science College in Baroda. This Trust handed over the educational fund to the University in May, 1949. The University then established a Nursery School in July, 1949 with 50 children on its roll and the Faculty of Home Science on the 3rd July, 1950 with 37 students in the first year and 3 advanced students in the third year of the four year degree course. The Faculty started its work in an old building of the University.

In 1953 the first B.Sc. Home Examination was conducted. Master's degree courses in (i) Foods and Nutrition and (ii) Child Development were started in the years 1954 and 1955 respectively. On the 18th June, 1956 the Gram Sevika Training Centre was established in Tara Niwas. In 1957 another major course in Clothing and Textiles was started. In June, 1959 Post-graduate Diploma in Nursery School Education was started. Post-graduate courses leading to Master's Degree in (i) Clothing and Textiles and (ii) Home Science Education and Extension were started during the year under report.

2. Buildings

A new building for the Faculty of Home Science was completed in June, 1952 at a cost of Rs. 6,59,000. It provided adequate class-rooms, laboratories, workshops, conference and seminar rooms, library and reading-room and administrative office. An auditorium with seating arrangements for 300 persons and Chetan Balwadi (a Nursery School attached to the Faculty) are 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 was constructed in the year 1960 at a cost of Rs. 16,000. An urgent need for large class-rooms and space for Kindergarten was felt last year so a new wing at a cost of Rs. 1,62,373=78 was completed in September 1961. This now brings the total cost of all the buildings to Rs. 10,03,337=78.

3. Courses of Studies

There is provision for the following courses :

(1)	B.Sc. (Home) and M.Sc. (Home)	(i) Foods and Nutrition (ii) Child Development (iii) Clothing and Textiles (iv) Home Science Education and Extension
(2)	Post-graduate Diploma	Nursery School Education
(3)	B.Sc. (Home)	(i) Economics of Household and Home Management

The revised syllabus was introduced duringt he year 1957-58. In the new course of B.Sc. (Home), the first six semesters are devoted to the core course, which acquaints all the students with the different phases of Home Science. In the seventh and the eighth semesters the students have to select one of the above fields of specialisation. A specially designed course in the Humanities and the 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 1961-62 was as follows :

(1)	B.Sc. (Home)			397
	(a) First Year	148 incl. Advance Repeaters & Non-Collegiate		
	(b) Second Year	108 including Repeaters		
	(c) Third Year	78 including Repeaters		
	(b) Fourth Year	63		
	(i) Foods and Nutrition Majors		21	
	(ii) Child Development Majors		11	
	(iii) Home Science Education Majors		10	
	(iv) Clothing & Textiles Majors		9	
	(v) Home Management Majors		12	
(2)	Post-graduate Diploma in Nursery School Education		2	2
(3)	M.Sc. (Home)			33
	(a) Junior	29		
	(i) Foods & Nutrition Majors		10	
	(ii) Child Development Majors		7	
	(iii) Home Science Education Majors		4	
	(iv) Clothing & Textiles Majors		8	
	(b) Senior	4		
	(i) Foods and Nutrition Majors		1	
	(ii) Child Development Majors		3	
			Total :	432

5. Staff

The staff of the Faculty consisted of 1 Professor, 2 Readers, 14 Lecturers, 3 Tutors, 9 Demonstrators, 2 Full-time Teachers, 1 Part-time Teacher, 10 Class III and 19 Class IV servants. The Faculty continued to receive help of the staff of the other Faculties for teaching various courses.

The Iowa State University of U.S.A. has deputed 5 Visiting Professors, one in each field of specialisation, for a period of two years at the Faculty for teaching and conducting Research at the Post-graduate level under the Ford Foundation Project.

6. Library and Reading Room

The Library received the following grants :

1.	Faculty Grant	Rs. 5,000
2.	U. G. C. Grant	Rs. 5,000

Noteworthy additions were made to the book stock in Foods and Nutrition, Art, Education Extension, Home Management and Child Development.

The following statement gives the details of book acquisition by the library :

(a) *Books* :

		Books	*Bound Periodicals*	*Pamphlets*	*Manuscripts*	*Maps Charts*	*Total Value Rs.*
1	Number at the beginning of the year	6828	333	275	—	—	59,481=27
2	Number added during the year	262	42	20	—	—	3,755=65
		7090	375	295	—	—	63,236=92
3	Number withdrawn from the records	—	—	—	—	—	—
4	Number remaining at the end of the year	7090	375	295	—	—	63,236=92

(b) *Periodicals* :

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

(c) *Circulation of Books* :

Timings of the Library : From Monday to Friday 8 a.m. to 5 p.m.
Saturday 8 a.m. to 3 p.m.

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

1.	Post-graduate students	35
2.	Under-graduate students	397
3.	Research students, scholars, assistants	4
4.	University Teachers	36
5.	Others	—
		472

The statistics of the Library use are given below :

1	Daily average number of readers visiting the library	50
2	Average number of books issued per day for home-reading	20
3	Average number of books issued per day from curricular section	35
4	Average number of books issued per day for reference	40
5	Total average number of books issued per day for reading	50
6	Average number of fiction books issued per day for home-reading	5

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. The Department of Child Development was given a large collection of toys by friends and well-wishers of the Faculty for the Toy Museum of the Balwadi. The Faculty purchased several show cases to display the educational articles. The following tables show the total cost of equipment in the Museum, Laboratories and Workshops :

Sr. No.	*Item*	*Cost of equipment, etc. as on 1-4-1961*	*Cost of equipment written off during the year*	*Cost of equipment etc. added during the year*	*Cost of equipment, etc. as on 31-3-1962*
		Rs.	Rs.	Rs.	Rs.
1.	Museum, Laboratories and Workshops	2,52,078=25	Nil	22,551=59	2,74,629=84

8. Literary, Cultural and Other Activities

(1) The Department of Home Science Education and Extension arranged several lectures and demonstrations on various topics for different

economic groups. This year, these demonstrations were held in different localities of the city.

(2) The Department of Home Science Education and Extension arranged film show every Friday.

(3) The Department of Clothing and Textiles arranged a series of educational shows for the students and staff of the Faculty and one for the citizens of Baroda.

(4) The Department of Child Development arranged eleven meetings of the parents/teacher association. It also arranged a Symposium on 'Marriage in the Changing Social Structure' on the 26th September, 1961 and a Seminar on 'Reading Readiness' on the 3rd February, 1962. The staff members of the Department also participated in the refresher course for nurses, in a symposium arranged by the Faculty of Social Work and also in the Public Health Seminar.

(5) An Evaluation Seminar on every Friday for the staff members of the Faculty was arranged by the Visiting Professor Dr. Lyle. Home Science Workshop was convened by the Technical Co-operation Mission and the Ministry of Education. Three Heads of the Departments were invited for active participation. A few 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 Department of Foods and Nutrition arranged an educational tour to Anand to see the working process of Amul Dairy.

(2) The Department of Clothing and Textiles arranged educational tours to Surat to visit the various textile mills and to Ahmedabad to see the hand block printing material and hand weaving centres, textile mills and the Calico Museum.

(3) The Department of Home Science Education and Extension arranged tours to Sankheda to see the community development project and to Bombay to visit all the agencies of supply and manufacture of teaching aids.

(4) The staff and the students of the Home Management went on education tour to Delhi to visit the housing scheme, household furnishing shops, museum, etc.

(5) The staff and students of the Child Development Department visited the 'Shreyas' School and the Exhibition of Children's Literature at Ahmedabad.

(6) The students of the Faculty participated in Inter-Faculty Group Songs, and also in the Youth Festival. The students and the staff celebrated annual social function as well as Annual Faculty Day. The Faculty magazine was published in March, 1962.

10. Tutorial and Class-work

The Faculty follows a grade credit system to assess and evaluate the work of the students in all the theory and practical classes. Every teacher maintains a diary or a class-record for his/her subjects in respect of each student taking the course. The students' performances during a term in the subjects in arrears of practical work 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 terms. The advisory system adopted by the Faculty has helped the students with their scholastic and personal problems.

11. Other Important Events

(1) Four Visiting Professors from the Iowa State University arrived in June/July, 1961 to help the teaching and research programme in the various departments of the Faculty. The fifth member joined the Faculty in November, 1961. The Faculty received a large number of books and important equipment from U.S.A. under the Ford Foundation Scheme Project. 15 students for the Master's degree were deputed by various colleges and each one is receiving a scholarship of Rs. 1,500 per annum.

(2) Many distinguished visitors came to the Faculty during the year.

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	12	13	25
(ii) Chetan Balwadi	31	29	60
Total	43	42	85

A full-time Social Worker helps 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 Symposium on 'Marriage in the Changing Social Structure' and a Seminar on 'Reading Readiness' were arranged 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. It was decided to launch a longitudinal study of children beginning with an important testing programme. Shrimati Amita Verma conducted two surveys—one of 45 local Nursery Schools and the other of Laboratory Nursery Schools in Home Science Colleges.

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 standard 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 of 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 trained 5 batches and has turned out 103 trainees who have now been posted as Gramsevikas in Development Blocks of the State Government. The sixth batch has been started in November, 1961 and 37 women are under training.

The staff consists of one Chief Instructress, four Assistant Instructresses, three Class III and five 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 Wing arranged cultural programmes, exhibitions, study tours, village camps, farewell programmes to the trainees and celebrated the 15th August and other festival days. Shri Bahadurbhai Patel, Deputy Minister for Agriculture, Government of Gujarat presided over the prize distribution function held at Alamgir on the 19th August, 1961 and gave away the prizes to Alamgir Mahila Pragati Mandal.

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. Brief History

The Baroda School of Social Work was started in March, 1950 with the object of training professional social workers on the lines of scientific knowledge available in the field at the post-graduate level. It started functioning from the 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 post-graduate 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 serving the public need and also to offer field work facilities to students of social work.

The Social Education Organizers' Training Centre was started in January, 1955 under the Faculty at Samiala. At present it serves as an in-service 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.

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 the second term the students continued to be supervised individually. Nineteen 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 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 Societies and Schools, 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, medical services, milk distribution, conducting surveys, publication of monthly bulletins (Gram Vikas), organizing film shows, maintaining an information bureau, keeping liaison between Government and village people.

(3) *Fateh Gunj Samaj Kalyan Kendra*: This Centre has increased its capacity to provide field work placement to students from 10 to 11 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 were continued in the Machhi Peth area where the majority of the members hail from the Harijan community. A grant of Rs. 500 was received from the Diamond Jubilee Trust Fund during the year. 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. It 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 students of the Faculty 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 illness and the broad principles of work with the mentally ill.

Since the establishment of the clinic in July, 1952 till the end of March, 1962, the clinic registered a total of 2498 cases. During the year the clinic rendered services to 332 cases, out of which 235 cases were new and 97 were carried over from previous years. Out of 235 new cases, 71% were adults and rest 29% were children.

The clinic staff in collaboration with the Research Department of the Faculty of Social Work has undertaken an exploratory study of the

patients referred to the clinic. The clinic has also collected good material which can throw light on many aspects of mental illnesses in India.

(5) *Study Tour and Camps:*

34 senior students were taken to Delhi on study tour from the 21st to the 31st October, 1961 and 36 junior students on Camp to Vadnagar (District Mehsana) from the 22nd to the 29th October, 1961. Two staff members accompanied both the Study Tour and Camp. They visited various social work institutions at Delhi and Vadnagar, Kheralu N.E.S. 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 1961-62 was as under:

Class	*Men*	*Women*	*Total*
Senior Class	27	11	38
Junior Class	28	10+1	39
	55	22	77

6. Staff

The staff of the Faculty consisted of 2 Professors, 1 Honorary Professor, 1 Reader, 7 Lecturers, 1 Agency Supervisor, 3 Part-time Lecturers, 10 Class III and 7 Class IV servants.

The Mental Hygiene and Psychiatric Clinic had 1 Clinical Psychologist, 3 Social Workers, 1 Class III and 1 Class IV servants.

7. Library and Reading-room

(1) *Acquisition Notes:*

(A) *Books:*

The Library received a grant of Rs. 5,500 from the University this year and it has been fully utilized.

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	4,637	650	35,708=17
Number added during the year	463	150	2,993=47
	5,100	800	38,701=64

(B) *Periodicals :*

The total number of periodicals and scholarly journals subscribed to, now stand at 70. Total amount spent for subscription, etc. is Rs. 1,226=80 60 volumes of bound periodicals were added to the stock during the year.

(2) *Circulation of Books etc. :*

The Library remains open from 8-00 a.m. to 7-30 p.m. on week days and from 8-00 a.m. to 2-30 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	70
2	Daily average number of teachers	18
3	Average number of books issued per day for home-reading	80
4	Total average number of books issued per day for reading	100

8. Publications by Members of the Staff

The following papers and/or articles were published by the members of the staff during 1961-62 :

Name of the Teacher	*Title*	*Name of the Journal and month of publication*
(1) *Articles :*		
1 Professor (Shrimati) A. M. Muzumdar	(i) Gandhian Philosophy and Social Work	"Social Work Review," July, 1961, Faculty of Social Work, M. S. University of Baroda.
	(ii) Mahatma Gandhi's Contribution to Social Welfare in India	Social Science Number of the University Journal, 1961.
2 Shri G. G. Dadlani	Learning Values of Group Research Project	"Social Work Review," July, 1961, Faculty of Social Work, M. S. University of Baroda.
3 Shri S. R. Ramdev	Problems of Working Mothers in Baroda City	"Social Work Review," July, 1961, Faculty of Social Work, M. S. University of Baroda.
4 Shri J. K. Motwani	Psycho-Social Aspects of Illness and the Role of a Medical Social Work	"Social Work Review," July, 1961, Faculty of Social Work, M. S. University of Baroda.

Name of the Teacher	*Title*	*Name of the Journal and month of publication*
(2) *Papers :*		
1 Professor (Shrimati) A. M. Muzumdar	Indigenous and Universal factors in Indian Social Work	General Session II at the Seminar for Faculty of Schools of Social Work in India and T.C.M. held at Ootacamund in May, 1961.
2 Shri S. R. Ramdev	Village Level Worker and Records on Rural Community Development	T. C. M. Seminar on Social Education held at Ootacamund in May, 1961.
3 Shri H. R. Chaturvedi	A Survey of the Selection and Promotion Practices in the Textile Industry, Ahmedabad	The Ahmedabad Textile Industries Research Association.
4 Kumari S. Dube	(i) Psychological Test in the Selection of M.S.W. students	49th Session of the Indian Science Congress.
	(ii) How far B. G. Test is useful in Screening Psychiatric Cases	15th Session of Indian Psychiatric Society held at Agra in March, 1962.

9. Literary, Cultural and Other Activities

The staff members participated in the wider field of social work in addition to their varied responsibilities and duties at the Faculty. They also took active interest in the development of the field at large. They participated in various national conferences and gave talks on Radio and in sister institutions.

The Faculty conducted a five week course for volunteer social workers who are already working in social service agencies. It was attended by 25 deputees. There is a request from many quarters to make it an annual feature and hold it for a longer period.

The staff members and students actively participated in a fund raising campaign to build up the social welfare fund in order to extend help to the needy patients of city. A variety entertainment held at Gandhi Nagar Gruha on the 15th January, 1962 brought a net income of Rs. 4,000 which is credited to Baroda District Branch of the Indian Conference of Social Work.

10. Co-curricular Activities

(1) *Participation on various Committees :*

Professor (Shrimati) A. M. Muzumdar, Shri G. G. Dadlani and Kumari J. P. Patel worked in different capacities on various Committees, Boards, Associations, etc. in and outside the University.

(2) *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 eight 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-seven students have availed of this facility. The Students' Association continued to run the Faculty Canteen this year also, in the interest of students and staff members.

The Faculty Students' Association has conducted socials, sports and outings, debates and talks on various occasions as usual. The students also participated in the Inter-Faculty Cultural Competitions sponsored by the M. S. University Union, and obtained second prize in group song.

(3) *Lectures :*

This year the following persons were invited to lecture to our students :

	Name	*Date*	*Subject*
1.	Shri S. Dasgupta, Deputy Director of Social Research, Central Institute of Study and Research in Community Development, Mussoorie	27-7-1961	Social Work Approach to Rural Development
2.	Dr. (Kumari) Perin Vakharia, Bureau of Social Affairs of the United Nations	22-8-1961	International Social Work
3.	Shri H. K. L. Kapoor, Deputy Secretary, General Administration Department, Government of Gujarat	6-9-1961	Some aspects of the Third Five Year Plan
4.	Shri Dipak Shah, Students Counsellor, U.S.I.S.	31-1-1962	American Folk Songs
5.	Mr. William J. Miller, Information Officer, U.S.I.S., Bombay	31-1-1962	Contemporary Social Trends in America

(4) *Magazine :*

The eighth issue of the "Social Work Review" Magazine was published in July, 1961. Some well-known people in the field of Social Work and members of the staff have contributed articles in this issue.

(5) *Planning Forum of the Faculty :*

The Planning Forum of the Faculty organised various programmes during the year 1961-62 :

1. As a part of Plan Week Celebrations of Government of Gujarat a Symposium on "Planning in India" was organised on the 8th January, 1962. Dr. J. M. Mehta, Vice-Chancellor presided over the Symposium.

2. The students of the Faculty participated in the National Essay and Debating Competitions in the subject of Panchayati Raj and Co-operation held under the auspices of Ministry of Community Development and Co-operation, Government of India. Shri Viswanathan P., the Senior Student of the Faculty won the third prize of Rs. 50 in debating competition.

3. Literature on planning was collected and was kept at the Library of the Faculty for reference of the students.

11. Tutorials 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. By this, 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 facilitates a close supervision of students' day-to-day progress.

12. Other Important Events

(1) A Faculty-Agency Seminar was held on the 15th and the 16th September, 1961 to consider "The Role of Field Work Agency in Partnership with the Faculty in the Students' Total Training Programme." Prominent leaders of the community representing varied Social Work Agencies met together with the members of the Faculty of Social Work to discuss problems of mutual concern to both.

(2) The Second Alumni Seminar on "Promotion of Social Work Education and Practice" was arranged by the Faculty during the month of March, 1962. It was attended by 68 delegates.

(3) *Alumni Association :*

The Alumni Association continued to give information and counsel to graduates regarding job and other problems. 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.

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 ; and frequent informal social gatherings.

A get-together of the Association was also organized. About 68 Alumni participated in the Seminar organised by the Faculty during March, 1962. A General Body Meeting of the Association, where 68 delegates and the Patron, were present, elected the new office-bearers of the Association.

The following figure will show employment situation of our alumni :

1.	Total number of graduates	216
2.	Total number of graduates so far employed ..	152

Information of other 64 graduates is not available.

(4) Many distinguished Visitors came to the Faculty during the year.

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 in-service training centre for the Social Education Organisers who are in charge of Social Education Programmes in C.D. Blocks along with other Extension workers.

This 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. In January, 1956

the Centre was converted into a five months' training Centre for both men and women. 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. The Training Centre has so far trained 94 men and 235 women.

The second long term course of Mukhya Sevikas ended on the 16th February, 1961 wherein 21 women trainees were trained as Mukhya Sevikas. The third course has been started from the 10th August, 1961 with 37 trainees on roll.

The Centre conducted a Refreshers' Course from the 16th April to the 16th June, 1961 for the past trainees. It also organised a Seminar of the Principals of the Basic Training Colleges of the Gujarat State from the 19th to the 21st June, 1961 for the purpose of orienting the Principals to the need of changing their training programme in the light of the challenge of Community Development and Panchayata Raj.

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. Seventeen part-time Lecturers were also invited for the long term course.

The Centre also maintains a library and a reading room. It has a stock of 836 books of the total value of Rs. 4,354=90. The Library continued to get publications of the Government of India, U.S.I.S., etc. free of cost.

Sarvashri J. C. Kavoori and S. H. Shah were deputed to attend Conferences and Seminars on subjects concerning Social Education. Shrimati V. V. Pawar was deputed for three months' orientation training at Trainers' Training Institute, Dehradun. Shri B. H. Pathak was also deputed for one and half months' training in Audio-Visual Aids Education at Rajpur (Dehradun) and at the National Institute of Audio-Visual

Education, New Delhi. Shri K. M. Sharma, Research Officer of the Centre was invited to attend a Joint meeting sponsored by United Nations and F. and A. Organisation at Rome from the 11th to the 20th December, 1961.

The Centre also runs a Health Clinic with the assistance of Government Doctors of Padra Health Unit. The total number of Clinic days was 103 and the patients 1,551. A grant of Rs. 2,500 was sanctioned by the University towards the maintenance of the Clinic. Field work, agency visits, village camps, study tours, one workshop, the Tagore Shatabdi Utsava, etc. were arranged during the year. The Centre was also visited by a number of distinguished visitors.

CHAPTER XVII—FACULTY OF LAW

1. Brief History

Since June, 1957 Law was taught as a liberal and cultural subject at B.A. level in the Faculty of Arts. A Committee was appointed under the Chairmanship of Honourable Justice Shri K. T. Desai to work out the syllabi and other details for starting the Faculty of Law. The Committee submitted the details in November, 1958 and the Senate in their meeting held on the 26th March, 1961 decided to start the Faculty from June, 1961. The Faculty imparts liberal-cum-professional training and instruction leading to the degree of Bachelor in Law (LL.B.) from June, 1961.

2. Buildings

The Faculty is at present housed in the west wing of the building of the Faculty of Arts.

3. Courses of Studies

The Faculty imparts instruction leading to the degree of LL.B. (Bachelor of Laws). The teaching of Law at the B.A. (Special) and B.A. (Subsidiary) also continued.

4. Number of Students

The number of students is as under :

Class	*Men*	*Women*	*Total*
First LL.B.	270	14	284

The strength of the Law classes in the Faculty of Arts was as under :

Law (Special) T.Y.B.A.	...	19 students
Law (Special) S.Y.B.A.	...	46 students
Law (Subsidiary) S.Y.B.A.	...	107 students

5 Staff.

During the year the staff of the Faculty consisted of 2 Readers, 2 Lecturers, 3 part-time Professors, 2 Class III and 2 Class IV employees. The senior members of the Bar were appointed as part-time Professors.

6. Co-curricular Activities

The Faculty organized a number of functions to develop the corporate life amongst the students. There were debates, tours, games and other cultural activities. The students participated in a number of Inter-Faculty competitions.

7. Important Lectures

The following eminent speakers addressed the students of the Faculty :

Speaker	*Subject*
(a) Hon'ble Justice Shri K. T. Desai, Chief Justice of Gujarat State	Rule of Law
(b) Shri A.S.R. Chari, Senior Advocate, Supreme Court of India	Law of Abortion—A Plea for Reform
(c) Professor L. R. Shivsubramaniam, Dean, Faculty of Law, University of Delhi	The Concept of Legal Personality
(d) Shri N. G. Shelat, District and Sessions Judge, Baroda	Role of Lawyers in a Democracy
(e) Shri S. A. Sudhalkar, Ex-Dewan, Former Baroda State, Baroda	Analysis of Criminal Investigation
(f) Shri Harshad P. Mehta, Senior Member, Baroda Bar Association, Baroda	Modern Trends in Criminology
(g) Shri R. H. Anjaria, Senior Member, Baroda Bar Association, Baroda	Reflections of a Criminal Lawyer
(h) Shri M. S. Pandit, Principal, Shri L. A. Shah Law College, Ahmedabad	Study of Law

These lectures were well-attended by the students and the teachers of the Faculty.

CHAPTER XVIII—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 the Section was separated from the Central Library and made and independent institution named as Oriental Institute 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 campus of the Faculty of Arts from the 25th January, 1958.

3. 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 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 Granthamala
(11) Shri Shishujnanamala

4. 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 teachers in Sanskrit for guiding M.A. and Ph.D. students.

The Director, the Deputy Director, the Head of the Ramayana Department and the Research Officers guided Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture enrolled in the Faculty of Arts and also took M.A. classes in Sanskrit and Gujarati.

5. Staff

During the year, the staff consisted of 1 Director, 1 Deputy Director, 4 Research Officers (Lecturer's Grade), 7 Class III and 6 Class IV servants in the Institute and 1 General Editor and Head of the Ramayana Department, 1 Assistant Editor, 2 Proof-Readers, 16 Critical Apparatus Writers, 2 Class III and one Class IV servants in the Ramayana Department.

6. Library

(1) *Manuscripts Section:*

This Section has already a collection of 20,902 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian Languages, of which 271 were added during the year. Out of these, 25 were purchased and 246 were received as gift.

During the year, 51 manuscripts were lent to outside Institutions and 26 to local scholars; and 105 were issued for work on the premises of the Institute. Three manuscripts were borrowed from other institutions.

The manuscripts collection of the Oriental Institute is becoming richer by the addition of new collections every year and includes several manuscripts of historic value for their subject-matter and for the historical information that they offer through their colophons and post-colophon entries. There are manuscripts in almost all the scripts of India including Persian and Arabic as well. The manuscripts collection of the Oriental Institute can easily be developed as an archival collection of national importance.

(2) *Printed Section:*

The Institute has a well-equipped Library having a collection of 23,900 books.

(a) *Acquisition notes:*

(i) *Books:* This year the Library received grants of Rs. 6,000 for printed section and Rs. 500 for Ramayana Department from the University for the purchase of books and periodicals. The grants were fully utilised.

There have been some noteworthy additions during the year *viz.* Khajuraho by Eliky Zannas; Mudra, a study of Symbolic Gestures in Japanese, Buddhist Sculpture by E. Dale Sauders; Vedic Bibliography, Vol. 2 by R. N. Dandekar; Jnanamuktavali by Claus Vogel; Shabdakalpadruma 5 Vols. by Raja Radhakantadeva; Kalhana's Rajatarangini tr. by M. A. Stein, 2 vols.; Back files of the Journal 'Arts Asiatiques'—7 vols.

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

	Books including bound periodicals	*Total Value in Rs.*
Number at the beginning of the year	22,935	2,09,227=22
Number added during the year	965	8,685=72
Total	23,900	2,17,912=94

Out of the total number of books added during the year, 511 books were purchased at the cost of Rs. 6,415-72 nP. and 454 books including periodicals were received as gifts or on exchange basis.

(ii) *Periodicals:* The total number of the periodicals and scholarly journals subscribed for and received on an exchange basis now stands at 225. About 170 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 90

(ii) Average number of teachers making use of the Library 75

Total amount spent during the year on binding of books and periodicals is Rs. 500.

7. Gaekwad's Oriental Series

Editing and publication of the series is one of the main activities of this Institute. The University Grants Commission and the State Government had approved a grant of Rs. 61,300 for publication of some volumes under this series during the Second Five Year Plan. Uptil now 139 volumes have been published under this series.

During the year the following works were published :

(1) GOS No. 136 Vaisesika Sutra with Vrtti of Chandrananda by Muni Jambuvijayaji ;

(2) GOS No. 137 Visnudharmottara Purana, Vol. II, Khanda III by Dr. Priyabala Shah ;

(3) GOS No. 138 Manasollasa, Vol. III by Shri G. K Shrigondekar ;

(4) GOS No. 139 Trisastisalakapurusacaritra of Hemacandra, Vol. V, English translation by Dr. Miss Helen Johnson.

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

(1) Nrtyadhyaya by Dr. Priyabala Shah, pp. 1-32

(2) Pada-Index of Valmiki Ramayana, Vol. II, pp. 175-368 by Professor G. H. Bhatt

(3) Dhurtasvamibhasya, Vol. II, pp. 1-8

(4) Natyasastra, Vol. IV, pp. 1-14

8. Translation Branch

This branch of the Institute carries on the publication work of the books under series 6 to 11 mentioned in para 3.

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

(a) Shri Sayaji Sahityamala :

(1) मीरांबाई : एक मनन by Dr. M. R. Majmudar

(2) आपणी खनिजसंपत्ति by Dr. N. M. Shah

(3) भारतीय संस्कृति (संक्षिप्त-आवृत्ति) by Shri K. S. Yajnik

(b) Shri Sayaji Balajnanamala :

(1) टॉमस आल्वा एडीसन by Shri G. N. Shah

(2) जीवनसुवास by Late Shri Rasulbhai Vohra

(c) Shri Sayaji Gramavikasamala :

(1) लोकनाट्य अने गामडुं by Shri Jashwant Thaker

(2) गुजरातनी जमीनो अने तेनुं संरक्षण by Shri K. C. Patwa

B. The following works are in progress :

(a) Shri Sayaji Sahityamala :

(1) कैलास by Swami Shri Pranavatirthaji

(2) ऐतिहासिक लेखसंग्रह by Shri L. B. Gandhi

(3) हरिभद्रसूरि by Prof. H. R. Kapadia

(b) The Maharaja Sayajirao Memorial Lecture Series :

(1) आनन्दमीमांसा by Professor R. C. Parikh

The sale of all publications is managed by the University Publications Sales Unit since December, 1959.

9. Publications by the members of the staff

(1) Articles/Papers

1 Name	*Title*	*Where published or read*
1. Professor B. J. Sandesara	१. कवि दयाराम	चेतन प्रकाशन गृह, वडोदरा
	2. Lexicographical studies in Jaina Sanskrit (in Collaboration with Shri J. P. Thaker)—4 instalments	Journal of the Oriental Institute, June, September, December, 1961
	३. एशिया की सांस्कृतिक एकता—मूळ गुजराती लेखनो हिन्दी अनुवाद	'ज्ञानभारती,' लखनौ, ऑगस्ट, १९६१
	४. उपाध्याय विनयविजयजीकृत इन्दुदूतमानुं सुरतनुं वर्णन	जैन पर्युषण पर्व अंक, संवत २०१७
	5. A further note on Matta Varani (in Collaboration with Dr. U. P. Shah)	Journal of the Oriental Institute, Vol. X-4, June, 1961
	६. 'एक विद्यायात्रा' (गुजराती लेखनमाळानो हिन्दी अनुवाद)	'राष्ट्रवीणा,' जुलाई-ऑक्टोबर, १९६१
	७. 'प्राचीन साहित्यमां लोकवार्ता'	'जीवनमाधुरी', दीपोत्सवी अंक, संवत २०१७

Name	Title	Where published or read
	८. 'गुजराती कोश'	पूर्वार्ध संस्कृति, १९६२, उत्तरार्ध संस्कृति, १९६२
	९. काकासाहेब—दूरथी नजीकथी.	कालेलकर अध्ययनग्रन्थ
	10. A Reference to Mineral Oil in Jaina Canonical Literature	अखिल भारत प्राच्यविद्या-परिषद ऑक्टोबर, १९६१मां रजू थयेलो निबंध
	११. जैन आगम साहित्यमां खनिज तेलनो उल्लेख	गुजराती साहित्यपरिषद, डिसेंबर, १९६१-मां रजू थयेलो निबंध
	१२. 'भारतनी मूळभूत अेकता,' विविधतामां अेकता विषेना संविवादमांनो अेक लेख	'नूतन गुजरात', साप्ताहिक, फेब्रुआरी, १९६२
	१३. 'अंचलगच्छीय', श्रीजयशेखरसूरिकृत श्रीमहावीर वीनती	'जैन' महावीर जयन्ती अंक, संवत २०१८
	१४. 'शंखचराभव व्यायोग' अैतिहासिक संस्कृत नाटक	अमदावाद साहित्यपरिषद निबंधसंग्रह
2. Professor G. H. Bhatt	Major Interpolations in the Balakanda	Summaries of Papers, 21st Session of All India Oriental Conference, Srinagar, 1961
3. Shri J. P. Thakar	'वीथीविमर्श'	Calcutta Session of the Gujarati Sahitya Parishad
4. Dr. S. D. Parekh	१. 'अज्ञातकवि विरचित प्राचीन गुजराती दुहा'	हिन्दु मिलन मंदिर, नवेम्बर, १९६१
	२. नरपतिकृत पंचदडंनी एक जूनी हस्तप्रत	अमदावाद साहित्यपरिषद, निबंधसंग्रह
	३. 'त्रण आर्येतर शब्दो'	बुद्धिप्रकाश, जान्युआरी, १९६२
	4. Some works on the Folk-tale of Pancadandachatra by Jaina Authors Yogi Shri Gopesvaraji 's contribution to Suddhadvaita Vedanta	Published in the proceedings and transactions of the All India Oriental Conference—20th Session
(2) *Books*:		
Professor B. J. Sandesara	संशोधननी केडी	Gurjar Grantha Ratna Karyalaya, Ahmedabad

10. Ramayana Department

The Ramayana Department was started in the year 1951 for preparing a Critical Edition of the Valmiki Ramayana on the lines of the Critical Edition of Mahabharata published by the Bhandarkar Oriental

Research Institute, Poona. On the recommendations of the Visiting Committee, the University Grants Commission have approved an expenditure of Rs. 6,82,150 for the scheme during the period from 1960-61 to 1966-67. The Commission will bear 66⅔% of the expenditure and the rest *i.e.* 33⅓% will be borne by the Government of Gujarat. The progress of the various sections of the Department during the year is as under:

(1) *Collation Section*:

The collation of the MSS of all the Kandas is over. The four microfilms, two in the Newari script and two in the Maithili script are almost completed for the Sundarakanda, and are to be collated for the next two Kandas.

(2) *Editorial Section*:

The text of the sargas 1-25 (vulgate 26) of the Kiskindhakanda was constituted by the Editor.

(3) *Critical Apparatus Section*:

The Critical Apparatus of the Ayodhyakanda was completed; that of the Aranyakanda has been written and is under scrutiny.

(4) *Publication*:

The first fascicule of the Ayodhyakanda, Sargas 1-40 was published. The second fascicule of Sargas 41-111 (Vulgate-119) with an appendix, introduction and concordance is ready for publication. The first fascicule of the Ayodhyakanda has been very favourably received by scholars in India and abroad.

(5) *Scrutiny*:

The General Editor scrutinized the constituted text of the Ayodhyakanda, Aranyakanda and the Kiskindhakanda (Sargas 1-17). The Assistant Editor finalised the Critical Apparatus of the second fascicule of the Ayodhyakanda.

11 Literary, Cultural and Other Activities

Prof. B. J. Sandesara, Director, Oriental Institute was co-opted as a member of the Executive Committee of the All India Oriental Conference. He read paper on 'A reference to Mineral Oil in Jaina Canonical Literature' before the Technical Sciences and Fine Arts Section of the 21st Session of the All-India Oriental Conference held at Srinagar in October, 1961. He was a President of the 14th Session of the Conference of the Collegiate Teachers of Gujarati (गुजराती अध्यापक संघ) held at Loka Bharati,

Sanosara (Saurashtra) in October, 1961 and delivered the presidential lecture on 'गुजराती कोष'. He is elected President of the Gujarat Itihas Parishad for the year 1962-64 and appointed as a mamber of the State Board of Historical Records and Ancient Monuments, Government of Gujarat. His collection of research papers entitled 'संशोधननी केडी' was awadred a prize of Rs. 1,000 by the Government of Gujarat as an outstanding book.

(2) Dr. U. P. Shah, Deputy Director, Oriental Institute has been awarded the Ful-bright Travel grant and Smith Mundt Maintenance grant as a (Senior) Research Professor for six months for research and study in the Graduate School of Arts, University of Pennsylvania, Philadelphia, U.S.A.

12. Journal of the Oriental Institute

The Institute has regularly published a quarterly Journal. During the year Vol. X, Nos. 3 and 4 and Vol. XI, Nos. 1 and 2 were published. 84 subscribers were registered during the year and 184 copies were sent on 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.

13. Other Activities

(1) For further development of the Oriental Institute a scheme of inviting Professors was started from 1959-60 and the following six lectures by three learned lecturers on different subjects were arranged in the Oriental Institute during the year under report:

Name of the Lecturer	*Subject*	*Date/s*
1. Dr. Motichandra	Mediaeval India in the eyes of Kshemendra	27-11-1961
2. Dr. Sukumar Sen	(a) Pre-history of Prakrit	15-1-1962
	(b) Emergence of Prakrit	16-1-1962
	(c) Pali, Prakrit, Apabrahmsa, Ahahttha	17-1-1962
3. Dr. R. N. Dandekar	Some aspects of the Agni-Mythology in India	5-3-1962 6-3-1962

(2) The following lectures were arranged in the 'प्राच्य विद्या व्याख्यानमाला' under the scheme of Extension Lectures Series:

Name of the Lecturer	*Subject*	*Date/s*
1. Dr. R. N. Mehta	प्राग ऐतिहासिक गुजराती	11-8-1961
2. Muni Shri Punyavijayaji Maharaj	आगम वाचनाना केटलाक प्रश्नो	24-1-1962
3. Dr. C. Hooykaas	(a) The Old Javanese Ramayana	31-1-1962
	(b) Priesthood in Bali	1-2-1962

(3) The Institute has been in charge of the scheme of preparing text-books in regional languages. The State Government have sanctioned interest free loans of Rs. 30,000 and Rs. 21,000 for this purpose. During the year under report, one book 'पुरावस्तुविद्या' by Dr. R. N. Mehta, Reader in Archaeology has been published. The work of another book 'प्रमाणशास्त्र' by Dr. B. G. Desai, Reader in Philosophy and Joint Co-ordinator, General Education Department is in progress.

14. Other Important Events

(1) The University Grants Commission has awarded the Senior Research Fellowship of Rs. 500 p.m. for the year 1961-62 to Dr. (Kumari) Surabhi Hrushikesh Trivedi for doing research work on "The Contribution of Puranas to Dharma-Shastra" in the Oriental Institute.

(2) Many distinguished Visitors came to the Institute during the year.

CHAPTER XIX—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

1. Brief History

The Institution was started in 1886 by the former Government of Baroda and was then known as Bharatiya Sangeet Vidyalaya. Later, it was designated as 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 only. 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.

2. Building

The present building at Sursagar was occupied by the College in June, 1952. During the session 1956-57 an existing structure was converted into the stage for the Open Air Theatre. Extension of the present building has been completed with the help of the University Grants Commission at a cost of Rs. 1,32,164. This has provided better 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 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 and Bharat Natyam);

(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) Three-year S. S. C. course in Vocal Music.

4. Number of Students

The number of students enrolled in various classes at the commencement of the year 1961-62 was as under :

Year/Class		Men	Women	Total
(1) Diploma :				
1st year	Music	126	71	197
	Dance	1	15	16
	Drama	11	1	12
2nd year	Music	42	34	76
	Dance	2	13	15
	Drama	6	—	6
3rd year	Music	21	13	34
	Dance	3	10	13
	Drama	7	—	7
4th year	Music	24	11	35
	Dance	2	1	3
5th year	Music	28	8	36
	Dance	—	3	3
	Total	273	180	453
(2) Degree :				
1st year	Music	3	7	10
	Dance	2	—	2
	Drama	1	—	1
2nd year	Music	3	5	8
	Dance	2	1	3
	Drama	2	—	2
3rd year	Music	5	5	10
	Dance	2	2	4
	Drama	4	—	4
4th year	Music	1	1	2
	Dance	1	2	3
	Drama	1	—	1
	Total	27	23	50
(3) Post-graduate Degree :				
5th year	Jr. M.Mus.			
	Music	—	1	1
	Drama	1	—	1
6th year	Sr. M.Mus.			
	Drama	1	1	2
	Total	2	2	4
	Grand Total	302	205	507

5. Staff

During the year, the staff consisted of a Principal, 1 Honorary Visiting Professor, 1 Honorary Visiting Lecturer, 2 Readers, 10 Lecturers, 4 Tutors, 19 Ustads (Teachers in Music and Dance including Part-time Teachers, etc.), 4 Accompanists, 9 Class III and 10 Class IV servants.

6. Library and Reading Room

(*A*) *Books :*

The Library of the College of Indian Music, Dance and Dramatics received as usual a grant of Rs. 2,000 from the University for the purchase of books and Rs. 600 for periodicals. The grant has been fully utilised for the year 1961-62.

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

		Books	*Bound Periodicals*	*Total Value in Rs.*
(1)	Number at the beginning of the year	3941	306	26,910=76
(2)	Items added during the year	287	23	2,059=57
(3)	Items withdrawn from the records	—	—	—
	Total	4228	329	28,970=33

(*B*) *Periodicals :*

The total number of periodicals subscribed for now stands at 45 and 23 Volumes of periodicals bound were added to the stock during the year.

(*C*) *Circulation of Books, etc. :*

The Library remained open from 9-30 a.m. to 12-30 noon in the morning, 5-00 p.m. to 8-00 p.m. in the evening on all working days, except Sundays and holidays. The number of readers registered in various categories were as follows :

(1)	Post-graduate students	7
(2)	Under-graduate students	50
(3)	Diploma students	14
(4)	Teachers	42
		113

The statistics of the use of the Library are as below :

(1)	Average number of students making use of the Library and/or the Reading Room daily	35

(2)	Average number of teachers making use of the Library and/or the Reading Room daily	15
(3)	Total number of books issued to students during the year	750
(4)	Total number of books issued to teachers during the year	950

7. Museum, Laboratory, Studios, Workshops, etc.

The College has a small museum of ancient instruments of various types. The drama properties room contains a collection of costumes and many miscellaneous properties including materials, etc. A Physics Laboratory has established to teach the students the principles of sound.

The following table shows the cost of equipment in the laboratory :

Sr. No.	*Item*	*Cost of equipment, etc. as on 1-4-1961*	*Cost of equipment, etc. written off during the year*	*Cost of equipment, etc. added during the year*	*Cost of equipment, etc. as on 31-3-1962*
		Rs.	Rs.	Rs.	Rs.
1.	Physics Laboratory	3,749=17		530=03	4,279=20

8. Literary, Cultural and Other Activities

(1) The programmes of Music, Dance and Dramatics were arranged by the students and the staff members of the College fortnightly on Saturdays during the whole year.

(2) A group of College students presented Ravindra Sangeet at Ahmedabad and Baroda in October, 1961 under the Tagore Centenary Celebration Programme. A ticket show of 'Natir Puja' at the Mahatma Gandhi Nagar Gruha was also arranged on the 22nd October, 1961.

(3) A play 'Arup Ratan' by Shri Ravindra Nath Tagore adapted in Gujarati was presented at the Mahatma Gandhi Nagar Gruha on the 31st January and the 1st February, 1962.

9. Co-curricular Activities

(1) The College celebrated the following anniversaries or Jayantis :

(i)	Professor Maula Baux Anniversary	22-7-1961
(ii)	Pandit Vishnu Digambar Anniversary	19-8-1961

(iii) Swami Haridas Jayanti 21-1-1962
22-1-1962
23-1-1962
24-1-1962

(2) The Annual Day of the College was celebrated on the 25th January, 1962 when Dr. Jyotindra M. Mehta, Vice-Chancellor, M. S. University of Baroda was the Chief Guest. Prizes were distributed by Shrimati Saralaben Mehta.

(3) The College students organised a trip to Pawagarh.

(4) The College Students Association published the 2nd number of the College Magazine 'Ninad'.

10. Tutorial and Class-work

Tutorials are held regularly in each subject, covering both the 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) A Cultural programme was presented before Shri K. T. Desai, Chief Justice, Gujarat State and Shrimati Desai on the 10th December, 1961. The programme consisted of an Orchestral piece, Bharata Natyam, Dance and a Drama 'Kacha Devayani'.

(2) The Film Division of the Government of India took a Documentary Film showing the working of this College on the 12th December, 1961.

(3) Shri M. G. Venkatachalam of Bangalore delivered a talk on 'Reminiscences of Indian Dance and Dancers' in the College on the 20th December, 1961 under the Scheme of Extra Mural Studies.

(4) A Concert of American Folk Songs was presented by Shri Dipak Shah followed by Mr. Madan Goel's slides show on the 3rd February, 1962.

CHAPTER XX—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 10.

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) Uttam 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) Vyakaran Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Nyaya and Vaisheshik Darshan, (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 'Visharad' in each of the two branches of (i) Grammar and Literature and (ii) Astrology and Astronomy with English upto the S.S.C. standard as a compulsory subject for both the branches.

(4) Pratham Kaksha or certificate course of three years' duration in each of the branches of (i) Yajurveda Yajniki, (ii) Rgveda Yajniki and (iii) Purana with grammar and literature as a compulsory subject for all branches.

4. Number of students

The number of students enrolled in various classes during the year 1961-62 was as under :

	Men	Women	Total
(1) Pratham Kaksha Certificate			
First Year	23	3	26
Second Year	3	3	6
Third Year	12	1	13
Total	38	7	45
(2) Madhyama Kaksha (Visharad)			
(i) Vyakaran Shastra			
First Year	7	2	9
Second Year	3	–	3
Third Year	1	–	1
Fourth Year	2	–	2
Fifth Year	2	–	2
Total	15	2	17
(ii) Jyotish Shastra			
First Year	4	–	4
Second Year	1	–	1
Third Year	1	–	1
Fourth Year	–	–	–
Fifth Year	2	–	2
Total	8	–	8
(3) Shastri			
(i) Vyakaran Shastra			
First Year	3	–	3
Second Year	–	–	–
(ii) Jyotish Shastra			
First Year	1	–	1
Second Year	1	–	1
(iii) Sahitya Shastra			
First Year	3	–	3
Second Year	–	1	1
(iv) Dharma Shastra			
First Year	3	–	3
Second Year	2	–	2
Total	13	1	14

	Mem	Women	Total
(4) Acharya			
(i) Vyakaran Shastra			
First Year	1	–	1
Second Year	–	–	–
(ii) Jyotish Shastra			
First Year	–	–	–
Second Year	–	–	–
(iii) Sahitya Shastra			
First Year	–	–	–
Second Year	–	–	–
(iv) Dharma Shastra			
First Year	–	–	–
Second Year	–	–	–
Total	1	–	1
(5) Vachaspati	1	–	1
Grand Total	76	10	86

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 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 ;	240

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 number of Journals) as on 1-4-1961	3390	10,720=88
(2)	Books written off during the year	143	91=38
(3)	Books added during the year	*370	336=52
(4)	Books as on 31-3-1962	3617	10,966=02

*Includes 314 books received as gift.

Sr.No.	Particulars	Number	Cost in Rs.
(5)	Journals subscribed during the year	9	64=20
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for the Library and the Reading Room during the year	—	400=72

7. Literary, Cultural and Other Activities

(1) *Lectures :*

The Institution arranged six lectures under the auspices of Sharadopasaka Mandal and one lecture under the Extra Mural Grant of the University.

(2) *Publication :*

(a) The following articles of Shri H. C. Mehta, Principal, Sanskrit Mahavidyalaya were published in Shri Navbharti, Dwarka, in its May, July and October, 1961 issues respectively :

(i) संस्कृत नाटकोमां संगीतनुं स्थान,

(ii) आदि कवि वाल्मीकि अने रामायण,

(iii) संस्कृत नाट्यस्वरूपो—व्यायोग.

(b) The institution published 'Paramlaghumanjusha' of Shri Nagesh Bhatt with a Sanskrit commentary called 'Jyotsna' by Pandit Kalikaprasad Shukla and two lectures on Dharma Shastra delivered by Shri Hariram Shastri, Visiting Professor of the Baroda Sanskrit Mahavidyalaya, Baroda for the year 1959.

(3) *Vyas and Kalidas Jayanti Celebrations :*

The institution celebrated Vyas Jayanti on the 27th July, 1961 and Kalidas Jayanti on the 19th October, 1261.

(4) *Gita Competition for the Students :*

Gita competition open to all the Educational Institutions of Baroda was organised on the 15th October, 1961. Students from different institutions participated. Three cash prizes of Rs. 25, were awarded to the first three successful competitors by the President.

8. Co-curricular Activities

(1) *Kavi Sammelan :*

A Kavi Sammelan was organised in the institution in the month of December, 1961. A number of leading Sanskrit poets of Baroda participated in the Kavi Sammelan.

(2) *Elocution Competition :*

The Institution arranged an elocution competition in Sanskrit for the award of Shri Abhinava Sachhidanand Tirthaji Maharaj of Dwarka Shardapeeth Silver Medal on the 8th December, 1961. Three students of the Institution participated in the competition and one of them carried away the Medal.

(3) *Training in Shastrartha :*

The institution arranged debates, general knowledge test and Shastrartha in Sanskrit by students and Adhyapakas by turns on every Friday in the institution with a view to giving training to the students in the art of dialectics in Sanskrit.

9. Other Important Events

(1) *Gift of books to the Library :*

The institution received during the year under report as gift 31 books from the Manager, Navjivan Trust, Ahmedabad, 18 books from Vakil Shri Narayanbhai Patel, Baroda, a set of 15 volumes of Shri Brahma Sutra Anubhashya with commentories of Prakash and Rashmi from the Secretary, Sheth G. S. Charities, Bombay–2 and a set of five volumes of Shabdakalpadrum from the Government of India for the use of the Library of this Institution.

(2) *Award of Government of India Scholarship :*

Shri P. B. Shukla, a registered candidate for the research degree of Vachaspati has been selected for the award of a scholarship of Rs. 100 p.m, tenable for two years under the Government of India Research scholarships scheme to the products of traditional Sanskrit Pathshalas.

(3) *The Annual Prize Distribution Ceremony :*

The institution celebrated the Annual Prize Distribution Ceremony for the award of diploma certificates, medals and prizes on the 10th February, 1962 under the Presidentship of Dr. C. S. Patel, Pro-Vice-Chancellor of the M. S. University of Baroda.

(4) *Donations :*

The institution received a donation of Rs. 500 in two instalments from Sheth Hansraj Pragji Thakersey Education Trust, Bombay for the purpose of giving scholarships to successful students in the terminal examination during the year under report.

(5) Many distinguished Visitors came to the Institute during the year.

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CHAPTER XXI—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. The introduction of the Three Year Degree Course in June, 1957 in the Faculties of Arts, Science and Commerce necessitated the discontinuation of Intermediate classes and the Intermediate College comprised of the Preparatory Arts, Science and Commerce classes from June, 1958. From June, 1960, the Institution was designated as the Preparatory Unit.

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 adjustment in the time-tables of the institutions. The Preparatory Science classes use the laboratories of the Faculty of Science.

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 courses in (1) English Language, (2) Indian Literature and (3) Social Studies as compulsory for all Arts, Science and Commerce students. The remaining four papers are from the field of specialisation—Arts or Science or Commerce as the case may be.

4. Number of Students

The number of students enrolled in the different classes at the commencement of the year 1961-62 was as under:

Classes	*Men*	*Women*	*Total*
Preparatory Courses in Arts	262	194	456
Preparatory Courses in Science	470	69	539
Preparatory Courses in Commerce	437	16	453
Total	1,169	279	1,448

5. Staff

There are in 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 and Commerce and the Department of General Education. About 70 teachers from various departments participated in Preparatory work from 2 to 4 periods per week. The special feature of the Preparatory work this year was the preparation of special exercises and reading material for improving the standards of English teaching. The reading material has proved very useful and is being revised for use next year also.

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. New books are being added every year. Some periodicals are being supplied for the teachers common room by the University Library. New books are being added every year to the tune of Rs. 2000. Books are selected particularly suited to the capacity of the Preparatory students in English, Languages, Social Studies and General Science.

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 were from this Unit. They took part in ceremonial parades and also participated with distinction in various competitions held at their camps. The Unit Association organised Badminton, Table Tennis, Carrom, Chess and Draughts tournaments which were also keenly contested.

Students of the Unit actively participated in the Inter-Faculty Tournaments held during the University Youth Festival. Three students of this Unit were selected in the University team to play cricket matches in the League, Randle Cup and Ranji Trophy Cricket Tournaments. A girl student of this Unit was selected to represent the University team to participate in the Inter-University Table Tennis for Women held at Kanpur in October, 1961. Two students of this Unit were selected to represent the University to participate in the Inter-University Wrestling Tournament held at Allahabad in November, 1961. One student of this Unit was selected to represent the University at the Inter-University Volley Ball Tournament held at Cuttack in November, 1961.

(2) *Debates:*

The Debating Society of the Unit organised several debates from time to time and distributed prizes to the best speakers. Students of the 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. A girl student of this Unit participated in the Inter-Faculty Debate held under the auspices of National Plan Week Celebrations on the 3rd October, 1961 and won the first prize of Rs. 25.

(3) *Cultural Programmes:*

The students of Preparatory Unit arranged several cultural programmes during the year. They celebrated the Independence Day with a programme consisting of National Song Competition, Garba, Gazal, Mushaira, International Music, etc. The students of Preparatory Commerce class arranged a Kavi Sammelan on the 12th October, 1961 in which students of Preparatory Arts, Science and Commerce participated by reciting their poems in Gujarati, Marathi, Hindi, Urdu and English. Women students of Preparatory Arts, Science and Commerce presented different styles and types of Garbas on the 13th October, 1961. A special evening programme consisting of varied items such as Dances (Manipuri and Bharat Natyam), Vocal and Instrumental Music was arranged on the 19th February, 1962. This was the concluding function of the year and the prizes were given away to the winners of Sports, Debates and Cultural items.

The Geography Association showed educational films and held the break-up social on the 20th February, 1962. The Marathi Association arranged debates and gave prizes.

(4) *Tours:*

About eight students of the Unit joined the North India tour sponsored by the M. S. University Students Union during the Divali Vacation. The Geography Association of the Unit organised a tour to Ajanta Caves, Dhanbad, Asansol, Chittaranjan, Delhi and Agra from the 21st October to the 6th November, 1961. The tours proved a good training in self-reliance and community life, besides knowledge of the country and the peoples.

8. Other Important Events

(1) *Orientation:*

This year also an orientation programme was arranged for the students of the Preparatory Arts, Science and Commerce. During the orientation

programme the students were introduced to the facilities of the University campus, courses of studies, Counselling Centre, etc.

(2) *Lectures:*

Some of the important lectures arranged for the students and the staff of the Unit are mentioned below:

	Name of the Lecturer	*Date*	*Subject*
(i)	Major Sadhu Singh of N.C.C. Rifles	8-7-1961	Importance of N.C.C. Rifles Training
(ii)	Shri Harish Vyas, Sarvodaya Worker of Gujarat	16-1-1962	Students' Role in Sarvodaya
(iii)	Pujya Ravishanker Maharaj	18-1-1962	Some Aspects of Education of Youth
(iv)	Shri Gulabdas Broker	20-1-1962	Why Study Literature at all?
(v)	Dr. Vijayandra Snatak, Delhi University	31-1-1962	Bharatiya Sahitya ki Ekta

(3) *Career Conference:*

A Career Conference was arranged for the students of Preparatory Classes from the 22nd to the 30th January, 1962 in the Central Hall of the Baroda College Building. The talks were of about 45 minutes. The last few minutes were reserved for questions.

Six interesting talks on Career were arranged as mentioned below:

	Speaker	*Topics*
(i)	The Employment Officer, Employment Exchange Office, Baroda	Employment situation
(ii)	Shri H. C. Dholakia, Special Officer, Faculty of Law, Baroda	Careers in Law
(iii)	Dr. J. D. Pathak, Dean, Faculty of Medicine, Baroda	Careers in Medicine
(iv)	Dr. N. M. Bhatt, Dean, Faculty of Science, Baroda	Careers in Science
(v)	Professor J. M. Shah, Faculty of Technology and Engineering	Careers in Engineering
(vi)	Professor N. S. Bendre, Dean, Faculty of Fine Arts	Careers in Fine Arts

CHAPTER XXII—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 three 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 strength of the total admission then was only 180 as against the present strength of 300. The syllabi of these courses are practically the same as those of the corresponding courses conducted by the Department of Technical Education of the Gujarat State.

As regards the finance, the University Grants Commission met the non-recurring expenditure on the buildings, equipment and books to the tune of Rs. 13,40,000, Rs. 10,62,000 and Rs. 20,000 respectively. They also bore 100% recurring expenditure during 1957-58, 80% in the year 1958-59 and 50% in the years 1959-60 and 1960-61, the balance being borne by the State Government. The Government of India have also given a loan of Rs. 18,52,500 for the construction of three hostels for Polytechnic to accommodate 450 students.

2. Building

The new building of Polytechnic was completed at a cost of Rs. 13,51,000. The construction of three hostels of the Polytechnic was also completed in the year under the report.

3. Courses of Studies

The Polytechnic offers the following Diploma courses in Engineering:

Name of the Course	*Duration of Course*	*Sanctioned Number of admission*
(1) Diploma in Civil Engineering	3 years	180
(2) Diploma in Mechanical Engineering	3 years	60
(3) Diploma in Electrical Engineering	3 years	60

4. Number of Students

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

	Men	*Women*	*Total*
(1) First Year Diploma:			
(i) Civil Engineering	183	1	184
(ii) Mechanical Engineering	78	—	78
(iii) Electrical Engineering	67	—	67
Total:	328	1	329
(2) Second Year Diploma:			
(i) Civil Engineering	66	—	66
(ii) Mechanical Engineering	87	1	88
(iii) Electrical Engineering	88	2	90
Total:	241	3	244
(3) Third Year Diploma:			
(i) Civil Engineering	100	—	100
(ii) Mechanical Engineering	125	1	126
(iii) Electrical Engineering	119	—	119
Total	344	1	345
Grand Total	913	5	918

5. Staff

During the year under report the staff of the Polytechnic consisted of 1 Principal, 2 Professors, 1 Reader, 16 Lecturers, 38 Demonstrators, 46 Class III and 51 Class IV Servants.

6. Library

In the Library 1061 new books worth Rs. 19,993 were added during the year, bringing the total number of books acquired for the library to 4265 at a total cost of Rs. 75,570=93. This amount includes non-recurring and recurring grants.

(*A*) *Acquisition Notes*:

(1) *Books*: The books and periodicals were purchased from the recurring grant. Besides the Government of India granted permission for the purchase of books of Rs. 10,000 out of the non-recurring grant sanctioned for equipment grant etc. The following amounts were available for purchase of Technical books, periodicals and binding:

(i)	Recurring	Rs. 12,500
(ii)	Non-recurring	Rs. 10,000
		Rs. 22,500

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

Number	*Books including periodicals*	*Pamphlets*	*Manuscripts, Maps, etc.*	*Total Value in Rs.*
Books at the beginning of the year	3,204	—	—	55,577=93
Books added during the year	1,061	—	—	19,993=00
Total	4,265	—	—	75,570=93
Books withdrawn from the records	6	—	—	95=25
	4,259	—	—	75,475=68

(2) *Periodicals*: The total number of periodicals and journals subscribed for now comes to 49 at the cost of Rs. 1,580=19. Bound volumes were also added to the stock of books during the year.

(*B*) *Circulation of books, etc.*:

The library remains open from 11 a.m. to 5-30 p.m. on all working days except on Sundays and Holidays.

The number of readers registered are as under:

(i)	Students	780
(ii)	Teachers	158
	Total	938

The statistics of the library use are given as under:

(i)	Daily average number of readers making use of the library	50
(ii)	Daily average number of books issued to reader for home-reading	30

7. Laboratories, Workshops etc.

Out of Rs. 10,82,000 sanctioned by the U.G.C. for equipment, furniture and books Rs. 81,735=75 have been spent during the year under report and the total amount spent from this grant upto the end of year is Rs. 9,71,798=07. The following table gives the total amount sanctioned and the amount actually spent upto the end of the year for the purchase of equipment, furniture and books for various laboratories and workshops of the Polytechnic:

Sr. No.	*Name of the Laboratory/Shop*	*Amount sanctioned by the University Grants Commission*	*Total amount spent upto 31-3-1962*
		Rs.	Rs.
1.	Physics Laboratory }	54,000=00	38,094=28
2.	Chemistry Laboratory }		
3.	Applied Mechanics Laboratory	18,000=00	12,377=40
4.	Strength of Material Laboratory	60,000=00	56,115=59
5.	C.E. & R.C.C. Laboratory	11,800=00	12,086=95
6.	Surveying Instruments	86,800=00	73,997=50
7.	Heat Engines Laboratory	1,42,000=00	94,486=07
8.	Hydraulics Laboratory	70,000=00	45,273=84
9.	Electrical Engineering Laboratory	2,11,000=00	2,09,145=07
10.	Electronics Laboratory	23,500=00	26,779=66
11.	(a) Workshops-Equipment		
	(i) Carpentry Shop	33,000=00	22,770=62
	(ii) Fitting Shop	38,600=00	14,[illegible]34=18
	(iii) Machine Shop	1,38,700=00	1,47,003=55
	(iv) Smithy Shop	22,000=00	21,080=94
	(v) Foundry Shop and Moulding	15,000=00	14,249=53
	(vi) Welding Shop	10,000=00	5,331=04
	(vii) Tin Smithy Shop	5,000=00	6,301=35
	(viii) Masonry and Plumbing Shop	5,000=00	2,212=29
	(ix) Drawing Materials	4,000=00	—
	(b) Erection charges for equipment of the various shops	—	28,923=12
12.	Models and materials for models	7,000=00	5,183=76
13.	Audio-Visual Equipment	9,100=00	5,187=89
14.	Furniture	1,00,000=00	1,00,766=72
15.	Books	20,000=00	29,996=72
	Total:	10,84,500=00	9,71,798=07

Orders worth Rs. 1,10,202=00 for various equipment, etc. have already been placed.

8. Literary, Cultural and other Activities

The Students' Association arranged lectures and talks on various subjects of general interest by prominent persons for the benefit of 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 'Polytechnic Day' was celebrated on the 2nd December, 1961 under the presidentship of the Pro-Vice-Chancellor, Dr. C. S. Patel. Shri Ekbal Chand, Chief Administrator, Oil and Natural Gas Commission, Western Region 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 Musical Association* :

The Students' Association participated in the Inter-Faculty Competitions held by the University Week Celebration Committee. The Association also took part in drama and group song competitions.

(3) *Exhibition of Educational Films* :

Film-shows were arranged to supplement class-room teaching to promote the general knowledge of students. In all about twelve film-shows were arranged during the year under the Audio-Visual Programme.

(4) *Co-operative Stores* :

The working of this store was carried on jointly with the Faculty of Technology and Engineering. Articles for the normal use of an Engineering student were supplied at reasonable prices. The store procured the licence to import sliderules, Wattman paper, etc. The articles were available to students at a price fifty percent below the market price.

10. Tutorial and Class-work

Attendance at the terminal examination, tutorials and tests are compulsory. The system of giving credit upto twenty percent marks for theory papers, tutorials and tests done during the term is adopted. The regular records of class-work and periodicals tests of students are maintained. In deciding the results of Annual Examinations conducted by the University the marks obtained by the students in their terminal examination, tutorials, class-work tests are taken into account.

CHAPTER XXIII—SHRIMATI HANSA MEHTA LIBRARY

1. Brief History

The University Library was started in the year 1950 in the old building near the University Office. The University Grants Commission and the Government of Bombay sanctioned a grant of Rs. 10,00,000 for 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 and Commerce and the Preparatory Unit were taken over. A panel of sculpture in cement is executed by the Faculty of Fine Arts on the front facade of the new building. The Library also provides instructions in a course leading to the Post-graduate Diploma in Library Science.

2. Acquisition Notes

(1) *Books* :

The first instalment of Rs. 60,000 (Rs. 30,000 for books on Humanities and Social Sciences and Rs. 30,000 for books in Scientific subjects) out of Rs. 3,00,000 approved by the University Grants Commission for the purchase of books and journals during the Third Five Year Plan period was received during the year. More than half of this grant was utilized.

The Library also received a grant of Rs. 30,000 from the University for the purchase of books and periodicals and the grant has been fully utilized.

There have been some noteworthy additions during the year *viz.* Index to the classed catalogue of the Boston University Library ; comp. by M. D. Herrick ; Photosynthesis and related processes by E. I. Rabinowitch ; Bulletin of the public affairs information service, 1957-60 ; Comprehensive analytical chemistry by C. L. Wilson ; The Encyclopaedia of Islam, ed. by H. A. R. Gibb and others ; The Grasses of Burma, Ceylon, India and Pakistan by N. L. Bor ; The World of Mathematics by J. R. Newman, 4 vols ; The families of flowering plants by J. Hutchinson, 2 vols ; Encyclopaedic dictionary of physics, ed. by J. Thewlis, 2 vols. ; Lecons sur le calcul des coefficients d'une serie trigonometrique by A. Denjoy, Pts. 1-5 ; Buddhist logic by T. Stcherbatsky, 2 vols. ; Theories of Society, foundations of modern sociological theory, ed. by T. Parsons,

2 vols.; American Mathematical Society translations, series 2, vols. 10-14, 16-17; Studia Mathematics, vols. 1-17; Journal of London Mathematical Society, vols. 20-25, 30-31; Library of Congress National Union Catalogue, A-Z, 5 vols.; Nationality and citizenship laws of the Commonwealth and of the Republic of Ireland by Clive Parry, 2 vols.; Jurisprudence, by R. Pound, 5 vols.; Handbook of thermo-physical properties of solid materials, ed. by A. Goldsmith, 5 vols.; The Cell, ed. by J. Brachet, vols. 1-5; Biology and comparative physiology of birds, ed. by A. J. Marshall, 2 vols.; International review of cytology, ed. by G. R. Bourne, vols. 2-7, 10.

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 the Preparatory Unit)	7,263
Faculty of Technology and Engineering	953
Faculty of Fine Arts	137
Faculty of Home Science	262
Faculty of Social Work	463
Chetan Balwadi	23
College of Indian Music, Dance and Dramatics	287
Oriental Institute (Printed Section)	965
Polytechnic	1,061
Sanskrit Mahavidyalaya	365
Total	11,779

Out of these books 7,302 were procured from the grants of the University; 2,030 books from the grants given by the University Grants Commission and 2,447 were received as gift.

The following statement gives the details of book stock of Shrimati Hansa Mehta Library during the year:

	Books	*Bound volumes of periodicals*	*Pamphlets*	*Manuscripts*	*Maps, Charts, etc.*	*Total value in Rs.*
Number at the beginning of the year	1,64,806	15,617	6,906	123	581	22,88,651=60
Number added during the year	7,263	219	815	32	71	1,05,643=63

	Books	*Bound volumes of periodicals*	*Pamphlets*	*Manuscripts*	*Maps, Charts, etc.*	*Total value in Rs.*
Number withdrawn from the records	239	—	460	—	—	85=68
Number remaining at the end of the year	1,71,830	15,836	7,261	155	652	23,93,443=55

(2) *Periodicals*:

The total number of periodicals and scholarly journals subscribed to, now stands at 1,118; 219 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	7,263
(2) New accessions in the Faculties	4,516
(3) Arrears from the last year	—
Total	11,779

(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	18,157	20,322	38,479
(2) Cards filed in the catalogue	18,157	20,322	38,479

4. Circulation of Books, etc.

The Library normally remains open from 8-00 a.m. to 8.00 p.m. on all working days except Sundays and holidays. With a view to give more facilities to the readers, during the whole academic year (except for the months of May and June), the library remained open from 8-00 a.m. to 10-00 p.m. on all week days including even Sundays and holidays, by the provision of a special grant for overtime work.

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

(1)	Post-graduate students	925
(2)	Undergraduate students	5,822
(3)	Research students, scholars and assistants	79
(4)	University teachers	645
(5)	Others	419
	Total	7,890

The statistics of the library use are given below :

(1)	Daily average number of readers visiting the library	1,800
(2)	Total number of books issued per day for reading	1,051
	(a) Average number of books issued per day for home-reading	292
	(b) Average number of books issued per day from Curricular Section	519
	(c) Average number of books issued per day for reference	240
(3)	Average number of books issued per reader in the year	37

5. Reference Section

(1) *Exhibitions :*

This year the Reference Section organised six exhibitions of noteworthy books on (a) Games and Sports, (b) On Planning, (c) India's International Relations, (d) Community Development and Co-operation, (e) Painting of different lands and (f) The wonderful world of Science.

(2) *Bibliographical Activity :*

The following bibliographies were compiled during the year in response to requests from readers :

(a) List of books on history of Gujarat in Gujarati language,

(b) List of books on history of Gujarat in English language,

(c) Criticism of Lyric,

(d) List of works in English and English translations of Swami Vivekanand and Swami Ramakrishna Paramhamsa,

(e) List of glossaries and dictionaries in technical fields and other science,

(f) Bibliography of books in Gujarati language published from 1900 onwards on Political History; Constitutional History; Government, International History, Social and Economic History, Archaeology, Epigraphy, Numismatics, Political Philosophy and Biography of National Leaders,

(g) Gujarat–Economic conditions, Agricultural Economics, Co-operative Agriculture, Labour, Rural Economy, Sociology and Statistics,

(h) List of books By and On Dr. Rabindra Nath Tagore.

6. Teaching of Library Science

Fourteen students were admitted in the course this year; one student left in the middle of the year. All the remaining thirteen students and two ex-students appeared at the examination. Fourteen students came out successful—three in First Class, eight in Second Class and three in Pass Class.

7. Other Important Events

(1) Dr. C. P. Shukla, University Librarian participated at International Conference on Cataloguing Principles held at Paris under the auspices of UNESCO during the 9th to the 19th October, 1961, as one of the two delegates from India. He also acted as a Director of the Symposium on bibliographical control of scientific and technological information at Dhanbad under the auspices of Indian Association of Special Libraries and Information Centres during the 16th and 17th February, 1962. He was re-elected as Vice-President of the Indian Library Association and Indian Association of Special Libraries and Information Centres. He also contributed a paper on the development of Indian University Libraries to the 'Library World', London and a paper on the scope and organization of bibliographical control in India at the Seminar on bibliographical organization and control in India held at Calcutta under the auspices of the Indian Library Association during the 10th to the 12th February, 1962.

(2) Many distinguished Visitors came to the Library during the year.

CHAPTER XXIV—THE 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 M/s. International Book House (Private) Ltd., Bombay and renamed it "The Maharaja Sayajirao University of Baroda Press".

2. Building

The construction of the new building for the University Press was completed in the year 1960, but pending completion the Press was shifted to the new premises in June, 1959. The total cost of the building is Rs. 3,60,000. A staircase is provided on the west side of the building as a special entrance to the S. S. C. E. Board Office, Gujarat State who have occupied the first floor of the Press Building.

3. Staff

During the year, the staff of the Press consisted of a Manager, a Deputy Manager, a Senior Clerk accounts-cum-store-keeper, one Proof-reader, two Asstt. Proof-readers and a clerk. There are 35 permanent workers in the Press. An amicable settlement is arrived at before the Industrial Tribunal at Ahmedabad regarding grades, etc. Extra workers are employed as and when required on temporary basis.

4. Machinery

The Press has machinery worth about Rs. 1,91,412 including machines purchased from the grant of the University Grants Commission.

The University Grants Commission approved a ceiling expenditure of Rs. 1,19,350 for the expansion and improvement of the existing Printing Press. The Commission and the State Government agreed to bear the expenditure in the ratio of 66⅔% and 33⅓% respectively. The Press has purchased machinery, types, foundry, moulds, matrices for type casting as well as for monotype, galleys, leads, types, quotations, metal furniture, type composing cabinets, rollers, type cases, lead-rule reglet rack, sundry composing materials and other accessories.

I.	Machinery and Foundry and accessories	Rs. 72,147=11
II.	Types, moulds, matrices, leads, etc.	Rs. 40,070=74
III.	Furniture and Equipments	Rs. 7,132=15
	Total	Rs. 1,19,350=00

The machinery is installed and all the purchased machines and other articles are put to working commissioned for the production.

5. Printing Activities

During the year 689 + 93 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 for the University Office and general forms, lists, prospectus, questionnaires, magazines, etc. of the Faculties and Institutions.

(1) The following is the list of books printed and published by the University during the year:

Maulana Azad 's Contribution to Education	M. S. University of Baroda
प्रवेशको	Faculty of Arts
प्राचीन साहित्यमां कला संबंधी उल्लेखो	Faculty of Fine Arts
Akbar	Faculty of Arts
Creativity	M. S. University of Baroda
Drama	Department of General Education
Adolescence	M. S. University of Baroda
आपणी खनीजसंपत्ति	Oriental Institute
टोमस आल्वा एडीसन	Oriental Institute
चयनिका	Preparatory Unit
भारतीय संस्कृति	Oriental Institute
Survey of Social work Education in India	Faculty Social Work
Vishnudharmottara Part II	Oriental Institute
वैशेषिकसूत्र	Oriental Institute
मानसोल्लास	Oriental Institute
लोकनाट्य अने गामडुं	Oriental Institute
परमलघुमंजूषा	Sanskrit Mahavidyalaya
Statistical Summary of Medical Examination Report of the Students of M. S. University of Baroda 1960-61	M. S. University of Baroda

Mirat-I-Sikandari	Department of History
Hand-book Part II (1961)	M. S. University of Baroda
जीवनसुवास	Oriental Institute
मीरां एक मनन	Oriental Institute
नाट्यप्रयोग शिल्प	College of Indian Music, Dance and Dramatics
Museums and Democracy	Department of Museology
A Report of administration of Family attitude Test	Students Counselling Centre
Hand-book Part I	M. S. University of Baroda
पुरावस्तुविद्या	Oriental Institute
Soma Hymns III	Oriental Institute
गुजरातनी जमीनो अने तेनुं संरक्षण	Oriental Institute
म्हारां सोनेट	Oriental Institute
धर्मशास्त्रे व्याख्यानद्वयं	Sanskrit Mahavidyalaya
गोविन्दहुल्लास नाटक	Department of Hindi, Faculty of Arts
Geography of Padra Town	Dept. of Geography, Faculty of Science
Abhiras	Department of Archaeology and Ancient History, Faculty of Arts
बाल्यावस्थामां कलानुं स्थान	Chetan Balwadi
Chetan Balwadi Report	Chetan Balwadi

(2) The following Journals were printed during the year :

The Journal of Maharaja Sayajirao University (Science, Humanities, Social Sciences)

The Journal of Animal Morphology and Physiology (Half-yearly)

The Journal of Oriental Institute (Quarterly)

The Journal of Education and Vocational Guidance (Quarterly)

The Journal of Association of Principals of Technical Institutions, India (Quarterly)

The Education and Psychology Review (Quarterly)

(3) The following works are in progress :—

नाट्यशास्त्र Volume IV	Oriental Institute
Ramayana Critical Edition of Ayodhyakanda	Oriental Institute
पंचाख्यान	Faculty of Arts
हरिभद्रसूरि	Oriental Institute
नृत्याध्याय	Oriental Institute
श्रवणाख्यान	Faculty of Arts
अखानी बानी (अक्षयरस)	Faculty of Arts
आग्रा घराणाकी चीजें	Music College

Hand-book Part III	M. S. University of Baroda
धूर्तस्वामिभाष्य	Oriental Institute
त्रिषष्टिशलाका Volume V	Oriental Institute
Pad-Index of Ramayana Volume II	Oriental Institute
प्रमाणशास्त्र	Oriental Institute
कैलास	Oriental Institute
ऐतिहासिक लेखसंग्रह	Oriental Institute
आनंदमीमांसा	Oriental Institute
Empirical Studies (Examination Reforms & Research)	M. S. University of Baroda

6. University Stationery Unit

This Unit is a service department of the University and is under the supervision and control of the Manager of the University Press. It purchases and distributes stationery every quarter to all the Faculties, Institutions and the University Office. One Senior Clerk, one Stationery Stock Assistant and one Stationery Distributor are working in this Unit. During the year stationery worth Rs. 1,02,751 was purchased and stationery worth Rs. 1,08,190 was distributed.

7. University Publications Sales Unit

This Unit was started in November-December, 1959 under control and supervision of the University Press Manager. The stock of books is kept in the cellar of the Press. The establishment consists of a Senior Clerk, a Clerk and an Outdoor-work Assistant/Attender. The Unit took over the stock of books from the Oriental Institute and from some Faculties. It is working as the Book-shop of the University Publications. The total sale of books during the year was Rs. 44,783.

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CHAPTER XXV—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 or organic unity and a sense of belonging.

During the academic year 1961-62 Shrimati Indira Bhanot continued to be the President of the Union. Professor N. S. Pandya was the Treasurer. Elections to other offices were held on the 22nd July, 1961 and the following Executive Committee was formed :—

1.	Shrimati Indira Bhanot	President
2.	Professor N. S. Pandya	Treasurer
3.	Shri Sudhir V. Dandekar	Vice-President
4.	Shri Jashbhai S. Patel	General Secretary
5.	Shrimati Saralaben Mehta	Members nominated by the Syndicate
6.	Shri Bhailalbhai Contractor	
7.	Shri Vinod D. Patel	
8.	Kumari Veena Nagrath	

In addition to the above there were other 20 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 S. V. Dandekar (2) Shri J. S. Patel (3) Shri Devindra Sharma
(2) University Board of Sports	(1) Shri C. N. Patel (2) Shri G. A. Prajapati
(3) Poor Students Aid Fund Committee	(1) Shri S. V. Dandekar (2) Shri J. S. Patel (3) Shri A. G. 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) Badminton Committee :

This year a very large number of members from different Faculties took interest in Badminton. About 250 boys and girls took part in the game. One covered court was not sufficient for the big number of students taking interest in the game. Hence some open-air courts were started in some Faculties. Five men students and three women students represented the University at the Inter-University Badminton Tournament held at Hyderabad towards the end of September. Many students took part in the local Tournaments conducted by the Committee.

(2) Indoor Games :

Inter-Faculty Tournament was held in the month of November, 1961. Many students participated and reached good standard in the games. Four men students were sent to Madras to participate in the Inter-University tournament. Shri P. R. Thorat won the Motibag Open Table-Tennis Championship. The Ladies' Individual Championship was won by Kumari Parsia Rana.

(3) Student Service Committee :

The Committee helped and guided students to fill up the Medical forms at Shree Sayaji General Hospital examination conducted by the Statistical Service Unit, Faculty of Science. The members also helped in making collections for the Fire Relief Fund of Baroda.

(4) U. N. O. Society :

The Society started its working after the 20th September, 1961. As usual the Committee celebrated the U.N.O. Day in collaboration with the Government. A symposium on "United Nation in the world community" and a seminar on "Political Science" were arranged under the auspices of the Society. The Human Right Day on the 10th December, 1961 was celebrated by arranging another symposium.

(5) Social Service League :

Social Service league is constituted to render service to the needy students of the University as well as to the citizens of Baroda. The League

has supplied magazines to the S. S. G. Hospital patients. A film show was arranged for the Patients of the T. B. Sanatorium. A fund was collected from the students community of the M. S. University of Baroda and was disbursed to the students who suffered during the fire in Tamboliwad area.

(6) *Poor Boys' Library :*

Every year the rush of students for getting books from the above library increases. It was felt that the budget of Rs. 2000 will not be sufficient to meet with the increasing needs; the Executive, therefore, increased the budget to Rs. 10,000. Books were given to more than 300 students according to their needs.

(7) *Debating Society* :

This year, a good number of debates were arranged and the response of the students was remarkably good. A selection debate was also held and Kumari Claudin Sequera and Shri Dhruva were selected and sent to participate in the 7th Inter-University Youth Festival.

(8) *Film Club* :

The scheme of starting a University Film Club as recommended by the University Grants Commission was accepted and the Film Club of the Union was converted into the M. S. University Film Society and was affiliated to the University Film Council, Ministry of Education, Government of India, New Delhi. The Society received a number of films and documentaries from the Film Library of the Council and they were shown free of charge to the members. Some interesting and educational pictures obtained from other Distributors were also shown to the members.

(9) *Hiking Club* :

The Club arranged a lecture along with a film of mountaineering expedition by Brigadier Gyansingh, Principal, Himalayan Mountaineering Institute, Darjeeling.

(10) *Reading Room and Library* :

During the months from March to May, the Committee planned a scheme of providing facilities of reading to 150 students. The students residing in different Halls of Residence responded to this scheme.

(11) *Canteen* :

The contract system was discontinued and the Canteen was run departmentally during the year. Arrangements have been made to supply good snacks, hot and cold drinks at reasonable rates daily from 8-00 a.m.

to 8-00 p.m. On Sunday evenings when the messes of the various Halls of Residence remain closed, the students take advantage of the facilities provided in the canteen.

(12) *Tours* :

A tour to North India including Kashmir was arranged during the Diwali vacations. More than 100 men and women students joined the tour. It was well organised and successful.

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, Kavi-sammelan, 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. The Twelfth University Week was inaugurated by Justice K. T. Desai, Chief Justice of the Gujarat State in December, 1961. Ticket shows for students were also held and the prize winning items were presented in Mahatma Gandhi Nagar Gruha. The whole cultural programme was carried out in a peaceful and disciplined atmosphere. A documentary film of the various activities of the University was also taken during the University Week Celebrations.

CHAPTER XXVI—LECTURES AND DEPUTATIONS

1. University Extension and Other Lectures

The following lectures were delivered under the auspices of the University during the year :

S. No.	Date	Name of the Lecturer	Subject
		FACULTY OF ARTS	
1	8-12-1961	Professor Robert J. Braidwood, Oriental Institute, Chicago, U.S.A.	Birth of Civilization in South-West Asia.
2	22- 1-1962	Professor V. K. Gokak, Director, Central Institute of English, Hyderabad	The Poet in the Modern World.
3	24- 1-1962	Dr. Klaus Fischer, German Institute of Archaeology, Delham, West Berlin	Indo-Afghan Relations in Ancient Period.
		FACULTY OF SCIENCE	
1	8- 7-1961	Dr. A. N. Kapanna, Salt Research Institute, Bhavnagar	Wealth of Oceans.
2	10- 7-1961	Shri S. M. Mukerji, Kurukshetra University	Some Experiments in the Syntheses of Terpenoids.
3	17- 8-1961 20-10-1961	Dr. R. C. Shah, Formerly Deputy Director, N. C. L., Poona	(1) Zinc-chloride Phosphorous Oxychloride—A new condensing agent (2) Some Aspects of Applied Organic Research at N. C. L. (Dr. K. G. Naik Gold Medal Lectures).
4	16- 8-1961	Professor A. R. Verma, Banaras Hindu University	Crystal Growth.
5	26- 9-1961 27- 9-1961	Professor Ram Behari, Delhi University	Mathematics (Two Lectures).
6	14-10-1961	Professor S. Chandrasekhar, Yerkes Observatory, Chicago University	Some recent researches in Astro-Physics.

S.No.	Date	Name of the Lecturer	Subject
7	17-11-1961	Professor I. D. Martynov, Soviet Scientist and Astronomer	Achievements of U.S.S.R. in Outer Space.
8	23-11-1961 24-11-1961	Dr. P. G. Tulpule, Nutritional Research Laboratories, Hyderabad	Recent Advances in Biochemistry (four lectures Budget).
9	30-11-1961 1-12-1961	Dr. B. K. Bachawat, Vellore Medical College	Recent Advances in Biochemistry (four lectures).
10	30-11-1961 1-12-1961	Dr. P. S. Sarma, Indian Institute of Science, Bangalore	Recent Advances in Biochemistry (four lectures)
11	1[illegible]-12-1961	Dr. S. Krishnamurthy, Madras Cancer Research Institute	Cancer
12	26-12-1961 27-12-1961 28-12-1961 29-12-1961 30-12-1961 1- 1-1962	Dr. A. M. Kshirasagar, Statistics Department, Bombay University	12 lectures on Design of Experiments
13	17- 1-1962	Professor M. S. Thacker, Ministry of Scientific Research and Cultural Affairs	Natural Resources and their Planned utilization (Maharaja Sayajirao Memorial Lectures)
14	17- 1-1962 18- 1-1962 19- 1-1962	Professor H. E. Street, University College, Swansea, U.K.	Some Aspects of Plant Physiology
15	27- 1-1962	Dr. J. V. Bhat, Indian Institute of Science, Bangalore	Enrichment Culture
16	30- 1-1962	Professor S. R. Palit, Indian Association for Cultivation of Science, Calcutta	Some Recent Development in High Polymers
17	31- 1-1962 1- 2-1962 2- 2-1962	Dr. B. C. Guha, Calcutta University	Philosophy of Science Origin of Life Molecular Basis of Life Mechanism of Protein Synthesis Biosynthesis of Ascorbic Acid Some Aspects of Nutritional Problem

S. No.	Date	Name of the Lecturer	Subject
18	5- 2-1962 6- 2-1962	Dr. K. K. Damodaran, Atomic Energy Establishment, Bombay	Activities of Atomic Energy Establishment of India (Two lectures)
19	10- 2-1962	Dr. K. K. Nair, Atomic Energy Establishment, Bombay	Atomic Energy in Pest Control
20	12- 2-1962 13- 2-1962	Dr. E. R. B. Sanmugsundaram, University of Madras	Recent Advances in Biochemistry (four lectures)
21	21- 2-1962 23- 2-1962	Professor M. A. Geeves, University of Adelaide, Australia	Researches in Psychology and Educational Statistics (two lectures)
22	27- 2-1962	Dr. C. Chandrasekhar, Demographic Research Centre, Bombay	Demography
23	28- 2-1962 2- 3-1962 5- 3-1962	Mrs. Dickinson	Algebraic Topology (six lectures)
24	7- 3-1962 9- 3-1962 12- 3-1962	Professor Dickinson	Group Theory, etc.

FACULTY OF EDUCATION AND PSYCHOLOGY

1	22- 1-1962	Professor V. K. Gokak, Director, Central Institute of English, Hyderabad	Recent Trends in the Teaching of English as a second language
2	26- 2-1962 27- 2-1962	Dr. A. E. Harper, Jr. Director, Bureau of Educational Research, Allahabad	(1) The Organisation of Educational Testing (2) Some Technical Problems of Testing and Research

FACULTY OF COMMERCE

1	5- 2-1962 6- 2-1962	Dr. F. P. Antia, Cement Marketing Co. of India Ltd., Bombay	Transport
2	12- 2-1962 13- 2-1962 14- 2-1962	Dr. S. K. Muranjan, Ex-Principal, Sydenham College of Commerce, Bombay	Foreign Exchange

FACULTY OF TECHNOLOGY AND ENGINEERING

S.No.	Date	Name of the Lecturer	Subject
1	11-12-1961	Professor M V. Joshi, University Department of Chemical Technology, Bombay	Design and Fabrication of Pressure Vessels Applications of Pressure Vessels to Chemical Industry
2	15-12-1961	Dr. J. P. Srivastava, Department of Mechanical Engineering, University of Roorkee, Roorkee	Two stroke Engines Free Piston Engines
3	16-1-1962 17-1-1962	Shri A. P. Kanvinde, M/s. Kanvinde & Rai, Architects, Delhi	The functions of Architect in Modern Society. Architecture connected with planning of Urban and Rural Development
4	24- 1-1962	Professor Srinaga-Bhushana, Principal, Silver Jubilee Technological Institute, Bangalore	Cleaning and Carding Processes Quality Control in a textile mill.

FACULTY OF HOME SCIENCE

1	3- 1-1962	Dr. (Shrimati) Kamala Bhoota	Reading Readiness

FACULTY OF SOCIAL WORK

1	24- 1-1962	Shri Rajaram Shastri, Head of the Institute of Social Sciences, Kashi Vidyapeeth, Varanasi	The changing concept of Social Work in India

FACULTY OF LAW

1	18-1-1962	Shri Ramniklal Anjaria, Baroda	Recollections of a criminal lawyer: Applications of Law to Complex Facts

ORIENTAL INSTITUTE

1	27-11-1961	Dr. Moti Chandra, Director, Prince of Wales Museum, Bombay	Mediaeval India in the eyes of Kshemendra
2	15-1-1962 16-1-1962 17-1-1962	Dr. Sukumar Sen, Khaira Professor of Indian Linguistics and Phonetics, University of Calcutta	(1) Pre-history of Prakrit (2) Emergence of Prakrit (3) Pali, Prakrit, Apabhramsa and Avahattha

S.No.	Date	Name of the Lecturer	Subject
3	24-1-1962	Muni Shri Punyavijayaji	आगमवाचनाना केटलाक प्रश्नो
4	31-1-1962 1-2-1962 3-2-1962	Dr. C. Hooykaas, Reader in Indonesian Culture, University of London	(1) The Old Javanese Ramayana (2) Priesthood in Bali (3) Sprinkling of Holy water in Bali
5	5-3-1962 6-3-1962	Dr. R. N. Dandekar, Professor of Sanskrit, University of Poona	Some aspects of the Agni-Mythology in Veda
		COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS	
1	1-12-1961	Shri Nikhil Ghosh, Bombay,	Lecture—Demonstration on the Art of Tabla
2	2-12-1961	Shri Jayanti Patel, Well-known Actor-Director of Bombay	Craft of Comedy
3	27-1-1962 28-1-1962	Dr. Suresh Awasthi	Hindi Drama and Hindi Theatre-Movement
		BARODA SANSKRIT MAHAVIDYALAYA	
1	3-2-1962 4-2-1962	Pandit Shri B. N. Pancholy, Vyakaranapradhyapaka, Varanaseya Sanskrit Vishwavidyalaya, Varanasi	(1) स्फोटविचार (2) व्याकरणो मुनित्रयाभिमतः परिणामवादो विवर्तवादो वा
		SHRIMATI HANSA MEHTA LIBRARY	
1	5-3-1962 6-3-1962	Shri Victor Muthiah, University Librarian, Madras University Library, Madras	Problems of academic libraries in India and approaches to their solution.

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, 1961 to the 31st March, 1962 :

Sr.No.	Name of the member of the staff	Name, Place and dates of the Conference
1	Dr. D. M. Desai, (Faculty of Education and Psychology)	A ten-day Seminar on Educational Administration for Professors and Senior Lecturers in Educational Administration in the University Departments of Education and Teachers Colleges in India held at Delhi from the 21st to the 30th April, 1961.

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
2	Shri J. C. Kavoori, (S.E.O. Training Centre)	A Seminar on research methodology held at the Central Institute, Mussoorie from the 26th to the 31st May, 1961.
3	Professor S. N. Mukerji, (Faculty of Education and Psychology)	The Sixth Conference of Association of the Training Colleges in India at Bangalore from the 8th to the 10th June, 1961.
4	Shrimati Amita Verma, (Faculty of Home Science)	Regional meeting of the Central Social Welfare Board of Bombay in June, 1961.
5	Professor Suresh Sethna, (Faculty of Science)	Symposium on the History of the development of Sciences in India held at Calcutta on the 4th and the 5th August, 1961.
6	Dr. (Kumari) Prem Pasricha, (Faculty of Education and Psychology)	The 6th Annual Conference of the All India Educational and Vocational Guidance Association held at Chandigarh from the 12th to the 14th September, 1961.
7	Shri S. R. Ramdev, (Faculty of Social Work) Shri S. H. Shah, (S. E. O. Training Centre)	The 12th Seminar on Social Education and Democratic Decentralization at Coimbatore from the 27th to the 30th September, 1961.
8	Professor C. P. Singh, (Faculty of Arts)	The Post-graduate Hindi Teachers' Seminar held at Delhi under the auspices of the Bharatiya Hindi Parishad from the 1st to the 10th October, 1961
9	Shri I. P. Shelat (Faculty of Social Work)	The 18th All India Adult Conference held at P.S.G. School of Social Work, Peelamedu, Coimbatore on the 2nd and the 3rd October, 1961
10	Professor (Shrimati) A. M. Muzumdar (Faculty of Social Work)	Indian Conference of Social Work Sessions held at Delhi from the 6th to the 9th October, 1961
11	Professor (Shrimati) A. M. Muzumdar (Faculty of Social Work)	General Body Meeting of the Association of Schools of Social Work in India held at Delhi on the 10th and the 11th October, 1961

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
12	Professor B. J. Sandesara (Oriental Institute) Dr. A. N. Jani, Dr. (Kumari) S. A. Nachane, Dr. S. G. Kantawala (Faculty of Arts)	21st Session of All India Oriental Conference held at Srinagar from the 12th to the 14th October, 1961
13	Kumari Kiran L. Parekh (Faculty of Home Science)	Workshop on Child Art and Audio-Visual Aids arranged by Shishu Vihar Shikshana Kendra at Bombay from the 14th to the 21st October, 1961
14	Dr. (Shrimati) J. M. Panchanadikar (Faculty of Arts)	Decennial Symposium of the Indian Sociological Society at Mysore from the 19th to the 22nd October, 1961
15	Shri B. G. Desai (General Education Department)	The Thirty Sixth Session of the Indian Philosophical Congress held at Shantiniketan, Calcutta from the 29th October, 1961 to the 1st November, 1961
16	Dr. R. N. Mehta (Faculty of Arts)	Golden Jubilee Celebration of Society of India held at Varanasi in the third week of October, 1961
17	Shri H. M. Trivedi (Faculty of Arts)	The Fourteenth Session of Gujarati Adhyapaka-Sangha held at Loka-Bharati, Sanosara, Saurashtra from the 2nd to the 4th November, 1961
18	Professor O. H. Patel (Faculty of Technology and Engineering)	Symposium on Economy and Efficiency of Engineering Enterprise in India and The 23rd Annual meeting of the Central Board of Irrigation and Power held at Delhi from the 12th to the 15th November 1961
19	Shri M. B. Achwal (Faculty of Technology and Engineering)	The All India Writers' Conference held in Bombay from the 17th to the 20th November, 1961
20	Dr. A. N. Jani, Dr. (Kumari) S. A. Nachane (Faculty of Arts)	Vikram University Kalidasa Celebrations held at Ujjain from the 22nd to the 24th November, 1961

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
21	Dr. S. D. Ambegaokar, Dr. S. H. Shah (Faculty of Medicine)	The Medical Education Conference held in Delhi from the 23rd to the 25th November, 1961
22	Professor C. V. Ramakrishnan (Faculty of Science)	The First All India Cancer Conference held in Bombay from the 8th to the 11th December, 1961
23	Dr. G. J. Wainwright, Dr. S. C. Malik (Faculty of Arts)	The Asian Archaeological Conference held in Delhi from the 14th to the 21st December, 1961
24	Dr. (Kumari) S. A. Nachane, Dr. S. G. Kantawala (Faculty of Arts) Shri H. C. Mehta Shri D. K. Velankar Shri D. A. Rakhe Shri M. C. Jani Shri V. B. Prakashkar (Baroda Sanskrit Mahavidyalaya)	The Decennial Celebrations and the Seventh Session at the Sanskrit Vishva Parishad. (The World Academy of Sanskrit) held at Bombay from the 15th to the 17th December, 1961
25	Shri G. P. Bhatt (University Experimental School)	A Conference of Headmasters of the Gujarat and Maharashtra States held at Bombay on the 16th and the 17th December, 1961.
26	Shri R. S. Mehta (Faculty of Arts)	The 21st All India Agricultural Economics Conference held at Pilani from the 21st to the 23rd December, 1961
27	Professor M. B. Desai (Faculty of Arts)	The 21st Annual Conference of the Indian Society of Agricultural Economics held under the auspices of the Birla College at Pilani from the 21st to the 23rd December, 1961
28	Professor C. V. Ramakrishnan (Faculty of Science)	Symposium on Plant Tissue and Organ Cultural organised by Delhi University at New Delhi in the 3rd week of December, 1961
29	Professor P. J. Madan (Faculty of Technology and Engineering Professor C. H. Khadilkar (Polytechnic)	Sixth Indian Standards Convention held at Kanpur from the 25th to the 31st December, 1961

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
30	Shri R. S. Thakar (Faculty of Education and Psychology)	The Sixth All India Science Teachers' Conference held in Udaipur from the 26th to the 28th December, 1961.
31	Shri H. C. Dholakia (Faculty of Law)	The Fifth Conference of the Teachers of Law held at Banaras from the 26th to the 28th December, 1961.
32	Professor U. N. Singh Shri S. D. Manerikar Shri R. C. Patel Shri U. M. Shah Shri B. S. Yadav Shri K. M. Dave (Faculty of Science) Shri V. B. Cholkar Shri N. M. Patel Shri K. L. Desai (Faculty of Technology and Engineering)	The 27th Annual Conference of the Indian Mathematical Society held under the auspices of the Gujarat University at Ahmedabad from the 27th to the 29th December, 1961.
33	Shri Rajendrakumar (Faculty of Arts)	The Forty Fourth Annual Conference of the Indian Economic Association held at Dharwar from the 27th to the 30th December, 1961.
34	Shri T. P. Lele (Faculty of Education and Psychology)	The 36th All India Education Conference held at Trivendrum from the 27th to the 31st December, 1961.
35	Shri G. P. Asthana (Faculty of Commerce)	The 15th All India Commerce Conference held at Waltair from the 27th to the 29th December, 1961.
36	Shri E. L. Rodriques (Faculty of Arts)	The 12th Session of the All India English Teachers' Conference held in Mysore from the 28th to the 30th December, 1961.
37	Shri I. A. Dave (Faculty of Arts)	The 21st Session of Gujarati Sahitya Parishad held at Calcutta in the last week of December, 1961.

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
38	Dr. R. N. Mehta (Faculty of Arts)	The 6th National Youth Hostels Conference held at Baroda from the 1st to the 4th January, 1962.
39	Professor Suresh Sethna Professor A. R. Chavan Professor N. S. Pandya Professor U. N. Singh (Faculty of Science) Dr. S. S. Merh Dr. A. M. Talati Shri T. I. Patel (Faculty of Technology and Engineering) Dr. A. S. Patel (Faculty of Education and Psychology)	The 49th Session of the Indian Science Congress held in Cuttack from the 3rd to the 9th January, 1962.
40	Dr. B. T. Dave (Faculty of Medicine)	All India Physicians' Conference held at Indore in the Middle of January, 1962
41	Kumari Nalini Badlani (Faculty of Home Science)	The All India Pediatricians Conference held at Indore in the middle of January, 1962
42	Dr. (Shrimati) N. B. Swami (Faculty of Medicine)	The 2nd Asiatic Conference of Obstetrics and Gynaecology held at Calcutta from the 23rd to the 25th January, 1962
43	Professor P. J. Madan (Faculty of Technology and Engineering) Professor C. H. Khadilkar (Polytechnic)	The 21st Annual Conference of the Association of Principal of Technical Institutions (India) held under the auspices of Delhi Polytechnic at New Delhi on the 9th and the 10th February, 1962
44	Dr. C. P. Shukla (Shrimati Hansa Mehta Library)	The Thirteenth All India Library Conference and Seminar on Bibliographical Organization and Control in India held under the auspices of the Indian Library Association at Calcutta from the 10th to the 12th February, 1962

Sr. No.	Name of the member of the staff	Name, Place and Dates of the Conference
45	Dr. (Shrimati) P. Phatak (Faculty of Education and Psychology)	All India Seminar on Educational Psychology held at the Central Institute of Education, New Delhi from the 21st February to the 1st March, 1962
46	Dr. M. A. Quraishi (Faculty of Education and Psychology)	All India Seminar on Educational Administration held at the Central Institute of Education, New Delhi from the 1st to the 10th March, 1962
47	Dr. J. S. Dave (Faculty of Science)	The 31st Annual Session of the National Academy of Sciences held at Dehradun from the 10th to the 12th March, 1962
48	Professor B. Subbarao, Shri S. N. Chaudhary (Faculty of Arts)	Symposium on Gupta Art held at Sarnath, Banaras from the 11th to the 13th March, 1962
49	Kumari Shakuntala Dube (Faculty of Social Work)	Annual Psychiatric Society Conference held at Agra from the 15th to the 17th March, 1962
50	Shri G. T. Sheikh (Faculty of Fine Arts)	Artists' Conference held at Calcutta from the 16th to the 18th March, 1962

CHAPTER XXVII—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, should have 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 some contact with Art, Literature and the Humanities. In other words, it was necessary to find a place for the element of liberal education alongside 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

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. About forty members of the staff from the various departments of the University

participated in the preparation of the reading material and also 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 the 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. 10,16,324 has been incurred upto the 31st March, 1962 on construction of building, purchase of equipments and acquisition of books.

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 :

	Course		*Number*
(1)	Preparatory Course		1,448
	Arts	456	
	Science	539	
	Commerce	453	
(2)	Degree Courses		2,228
	Arts	639	
	Science	343	
	Commerce	707	
	Technology and Engineering	294	
	Fine Arts including Music College	68	
	Home Science	177	
			3,676

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) 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. This syllabus is so arranged that a student specialising in any one of these fields is given courses 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 eight 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 Literarure—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, Shophocles 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 XXVIII—STUDENTS' WELFARE ACTIVITIES

1. Halls of Residence

The University, being residential, makes constant efforts to increase and improve residential accommodation for 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. At the end of the year under report there were in all ten Halls for men and two Halls for women. Two new Halls—one for men students and the other for women students—are under construction. The ground floors of both the Halls will be ready for occupation and will provide additional accommodation to 60 men students and 60 women students from June, 1962.

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 an awareness and interest in Faculties other than their own.

In all 3,886 applications were received for accommodation in the Halls during the year. Even though the new Halls were helpful in meeting the huge demand to some extent, the procedure of admitting 3 students in one room had to be continued during the year. At the end of the year 1,753 students were in residence in different Halls as against 1,361 in 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 Aravind Hall	Shri Dadabhai Naoroji Hall	Dr. Jivraj Mehta Hall	Prof. T. K. Gajjar Hall	Shri Keshav Prasad Hall	Polytechnic Hall I	Polytechnic Hall II	Polytechnic Hall III	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Total
1 Preparatory Unit	4	24	16	12	19	28	—	40	44	54	39	24	304
2 Arts	4	6	4	5	7	9	—	6	13	1	52	19	126
3 Science	13	23	16	8	21	18	—	20	17	13	24	11	184
4 Education & Psychology	1	—	2	—	—	—	—	5	11	8	18	3	48
5 Commerce	7	9	14	6	17	21	—	7	8	2	1	2	94
6 Medicine	16	16	22	3	31	20	—	—	3	—	30	8	149
7 Technology & Engineering	71	51	51	23	57	68	32	19	19	25	5	3	424
8 Fine Arts	—	4	5	1	2	2	—	—	—	1	8	8	31
9 Home Science	—	—	—	—	—	—	—	—	—	—	120	97	217
10 Social Work	1	—	—	—	—	1	—	9	4	6	7	3	31
11 Law	—	2	—	—	—	—	—	—	1	—	—	—	3
12 Music College	—	1	—	1	—	—	—	—	—	—	7	2	11
13 Polytechnic	6	10	17	6	6	5	—	43	33	5	—	—	121
Total	123	146	147	65	160	172	32	150	152	115	311	180	1753

Administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and the Wardens' Committee.

All the Halls have been provided with libraries and well-equipped reading rooms. Students are contributing towards the purchase of newspapers and magazines. Indoor games are also provided. The University has appointed 2 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 and Library Committee
5. Health and Sanitation Committee.

Meetings and talks were arranged, musical and social evenings were organised and games, tournaments and debates were held in each Hall. National Days like National Cleanliness, etc. were also organised by the Halls. A beginning in Counselling work was also made in some of the Halls.

2. Medical Examination of Students

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 to 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 a Board of Specialists, in August-September in the Shri Sayaji General Hospital, Baroda. The results are recorded in a special form 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 carried out from the 7th August to the 19th September, 1961 and in all, 3,136 students—2,537 boys and 599 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, one Lady Physical Instructor, 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 1,070 students including 312 girl students were imparted training in Drill, P.T. and Games. Special training was also given to selected cadets in Marching. This training was organised and conducted by 5 Group Commanders, 6 A.C.C. Officers and 79 Student Leaders under the supervision and guidance of the Director of Physical Education. Selected boy cadets and girl cadets also took part in the Ceremonial Parades during the N.C.C. and A.C.C. Weeks. A group of forty girl cadets were taken to Dummas on a pleasure trip.

(3) *Major Games:*

Major Games such as Cricket, Hockey, Foot-ball, Volley Ball, Basket Ball, Kho-Kho, Tennis, Badminton, Table Tennis, Throw Ball and Net Ball were organised and conducted by the Physical Instructors and the Officers-in-charge of Cricket, Foot-Ball, Hockey, Tennis, Badminton and Table Tennis. More than three hundred students including girl students from various Faculties and Institutions participated in these activities.

(4) *Swimming and Boating:*

During the year, 566 students participated in Swimming and 158 students in Boating. In addition to this 839 guests also took advantage of the Swimming Pool. Annual competitions in Swimming and Boating were also held during the second term of the year. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University presided over the Boating Prize Distribution Function and Shrimati Saralaben Mehta gave away the prizes and trophies to the winners. Dr. C. S. Patel, Pro-Vice-Chancellor of the University presided over the Swimming Prize Distribution Function and gave away the prizes and trophies to the winners.

(5) *Annual Sports:*

As a part of the University Youth Festival, Annual Sports were held on the University Sports Ground on the 11th, 12th and the 13th December, 1961. Students and members of the staff from various Faculties and Institutions participated in different Track and Field Events. Dr. C. S. Patel, Pro-Vice-Chancellor of the University gave away the prizes and trophies to the winners.

(6) *Winners of Individual Champions:*

	Winner	*Faculty/Institution*	*Trophy*
		Athletics	
1	Shri S. P. Gupta	Technology and Engineering	Silver Shield
2	Kumari Manda Karnik	Arts	Silver Shield
		Swimming	
1	Shri A. R. Shetty	Technology and Engineering	Shrimati Hansa Mehta Shield
2	Kumari Bharati Gandhi	Medical College	Dr. Jivraj N. Mehta Shield
		Boating	
1	Shri K. D. Desai	Polytechnic	Shrimati Hansa Mehta Shield
2	Kumari Asha Bapat	Arts	Dr. Jivraj N. Mehta Shield
		Badminton	
1	Shri S. V. Dandekar	Technology and Engineering	Baroda Open
		Table-Tennis	
1	Shri P. R. Thorat	Commerce	Moti Baug Club (Open)
2	Kumari P. P. Rana	College of Indian Music, Dance and Dramatics	Baroda (Open)

These two players also won the Mixed Doubles Championship in the Table Tennis Tournament (West Zone) held at Baroda.

(7) *Training of University Teams:*

The University Teams were given training by the Officers-in-charge of Cricket, Hockey, Foot-ball, Tennis, Badminton, Table-Tennis, Swimming and Boating and the Physical Instructors, Experienced persons were also appointed to impart special training to University Cricket, Hockey (Men and Women), Kho-kho (Men and Women) and Boxing Teams.

(8) *Inter-Faculty/Institution Tournaments :*

The Inter-Faculty/Institution Cricket, Hockey, Foot-ball, 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 these tournaments.

(9) *Local and Other Tournaments :*

The University Cricket, Hockey, and Volley Ball Teams participated in the League and Knock-out Tournaments held in Baroda. The Cricket Team won the Zaveri League Cricket Tournament, and the Volley Ball Team won the Open Volley Ball Tournament. The University Swimming Team also participated in Swimming and Water-Polo Competitions held at Ahmedabad under the auspices of the Gujarat State Aquatic Association.

(10) *Inter-University Tournaments :*

This year 17 University Teams *viz.* Swimming, Athletics, Cricket, Foot-Ball, Hockey (Men and Women), Basket Ball, Volley Ball, Tennis, Badminton (Men and Women), Table Tennis (Men and Women), Kho-kho (Men and Women), Wrestling and Boxing participated in the Inter-University Tournaments. Our Cricket Team defeated Poona in the First round but lost to Bombay in the West Zone Finals at Dharwar. Our Kho-kho Team (Men) were runners up in the All India Kho-kho Tournament held at Nagpur.

The All India Inter-University Hockey Tournament (Women) was held at Baroda from the 18th to 24th December, 1961 under the auspices of our University. Smt. Saralaben Mehta inaugurated the Tournament. In this Tournament 8 Universities *viz.* Punjab, Delhi, Jabalpur, Osmania, Poona, Bombay, Gujarat and M. S. University of Baroda participated. In the Finals Delhi defeated Jabalpur and won the Championship. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University presided over the Prize Distribution function and gave away the Certificates, Prizes, and Trophy to the winners.

(11) *Participation in National Championship :*

(i) Five members of the University Cricket Team represented the Baroda Cricket Association in the National Cricket Championship.

(ii) Four members of University Basket Ball Team represented the Gujarat State Basket Ball Association in the National Basket Ball Championship held at Hyderabad.

(iii) Three members of University Table Tennis Team represented the Baroda Table-Tennis Association in the National Table Tennis Championship held at Bombay.

(iv) Two members of University Foot-Ball Team and one member of University Hockey Team participated in the National Foot-Ball and Hockey Championships respectively.

(v) Shri Mukund Vakil and Shri Arun Vaidya participated in the National Swimming and Athletics Championships respectively.

(vi) Shri Yogesh Yadav and Kumari Manda Jadhav were selected as Captains of the Gujarat State Kho-Kho Team (Men) and Kho-Kho Team (Women) respectively which participated in the National Kho-Kho Tournaments held at Jabalpur.

(vii) Shri J. W. Ghorpade and Shri S. P. Gaekwad were selected as members of the Combined Universities' Cricket Team which played against the M.C.C. Team at Poona.

4. National Cadet Corps

The following N.C.C. Units carried out their usual activities during the year :

(1) 3rd Gujarat Battalion N.C.C.
(2) 4th Gujarat Girls Troop N.C.C.
(3) 18th Gujarat Engineering Platoon N.C.C.
(4) 20th Gujarat Medical Company N.C.C.
(5) 16th 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 is given below :

(1) *3rd Gujarat Battalion N.C.C.*

This Unit is a 4 Company Battalion with an authorised strength of 15 N.C.C. Officers and 625 Cadets. The 20th Gujarat Girls Troop, 48th, 49th and the 50th Junior Division Army Troops, 9th Gujarat Junior Division Girls Troop and A.C.C. Platoon are under the command and control of this Unit. The training of the Battalion started on the 21st June, 1961 and terminated in February, 1962.

The Unit held the following Camps :

	Camps	*Place*	*Date*
1	Combined Cadre and Social Service camp for Girls	Hathab	1-5-1961 to 12-5-1961
2	Combined Cadre and Social Service camp for Boys	Bhagal	1-5-1961 to 14-5-1961
3	A. C. C. Labour and Social Service camp	Deogad Baria	24-10-1961 to 6-11-1961
4	Combined Annual Training camp	Nadiad	23-12-1961 to 5-1-1962

As usual the first Sunday of the month of December *i.e.* the 3rd December, 1961 was celebrated as 'N. C. C. Day' when the Cadets of all the Local units of N. C. C. and A. C. C. took part very enthusiastically. A ceremonial parade was arranged and Shri. F. N. Rana, I. A. S., Commissioner of Baroda took the Salute.

'A', 'B' and 'C' Certificate examinations were conducted from the 12th to 14th February, 1962. The results are as under :

Examination	*Number appeared*	*Number passed*	*Percentage*
'A' Part I	32	26	81%
'A' Part II	—	—	—
'B' Certificate	138	106	77%
'C' Certificate	24	20	83%

Two N.C.C. Officers of the Unit—Capt. N. P. Salvi and 2/LT. D. C. Vyas attended a Refresher Training Course at Kamptee during October, 1961. 2/LT. D. C. Vyas is also deputed for 6 months' 'training at the N.C.C. Academy, Purandhar from the 4th February, 1962. L/CPL. P. K. Gohil is undergoing OTU training. L/CPL. P. K. Ranade is also selected for the OTU training in June, 1962. One Cadet attended the All India Summer Training Camp at Sabathu (Simla Hills) and another attended the advanced Leadership Course at Mahabaleshvar during the Summer Vacation.

(2) *4th Gujarat Girls Troop N.C.C., Baroda :*

This Unit was started in the year 1955 under the name of '5th Bombay Girls Troop N.C.C.'. After the bifurcation of the Old Bombay State, it was renamed as '2nd Gujarat Girls Troop N.C.C.'. This Unit was being administered since formation by 6th Bombay Battalion N.C.C. (Now 3rd Gujarat Bn N.C.C.) for one year. This Unit was further functioning

independently for 3 years and was being commanded by Lt. (Kumari) S. A. Nachane the Officer Commanding Lady Officer of this troop. Afterwards this troop was transferred to 18th Bombay Engineering Platoon N.C.C. (Now 18th Gujarat Engineering Platoon N.C.C.) for a period of 6 months. Subsequently this unit has been transferred to OC 17 Bombay Air Sqn. N.C.C., Baroda (Now 17 Gujarat Air Sqn. N.C.C.). From the 24th October, 1961 this troop has been divided into 3 sub-troops. Each sub-troop has been designated as 4th, 5th and 6th Gujarat Girls Troop N.C.C. respectively; however, for the administrative convenience this Unit is being referred to as "4th Gujarat Girls Troop N C.C., Baroda." Since, this Unit came in touch with the Air Force Unit, the gliding training was introduced to few selected cadets of this troop.

This Unit at present is accommodated in its own troop building in the premises of Faculty of Home Science. Another Unit namely 16th Gujarat Girls Troop N.C.C. is also accommodated in the same building. This Unit has the authorised strength of 3 N.C C. Lady Officers and 135 Girl Cadets. The present actual strength is 2 N.C.C. Lady Officers and 126 Girl Cadets. The Girl Cadets of this troop are taught various subjects like Morse, Wireless Training, Squad Drill, Signal Training, Sanitation and Hygiene, Map Reading and First Aid. The Wing Girl Cadets are taught some special subjects namely Airmanship, Meteorology, Aeromodelling and Navigation, etc.

During the N.C.C. Week Celebrations in the first week of December, 1961, Ceremonial Parade and Flag March were organised under the Chairmanship of the Chief Justice of Gujarat State. One N.C.C. Lady Officer and 33 Girl Cadets of this troop took part in Flag March. Certificate Distribution function was held on the 10th September, 1961. Twenty three Cadets of this troop received trophies for "Best in Shooting, Best in Signals, Best Cadet, Regular Cadet, etc." One N.C.C. Lady Officer and 31 Cadets of this Unit also took part in the Republic Day Parade held on the 26th January, 1962.

Combined Cadre and Social Service Camp for this year was held at Hathab in Bhavnagar District from the 1st to the 12th May, 1961.

(3) *18th Gujarat Engineering Platoon N.C.C.*

The authorised strength of the Unit is 2 N. C. C. Officers and 60 Cadets. It completed its strength and started training with effect from the 25th June, 1961. It imparted general training and special training of

Military Engineering *viz.* Field work, Bridging, Watermanship, Rafting, Watersupply, Demolition and Mines.

The Cadets of the Unit participated in Ceremonial Parade and Flag March during N.C.C. Week Celebrations in December, 1961. 30 Cadets of the Unit also participated in Republic Day Parade. One of the Cadet was awarded a certificate and a cash prize of Rs. 5 for his 'Best Turn Out' on the day.

'B' and 'C' certificate examinations were held on the 22nd and the 23rd February, 1962. The results are as under:—

Examination	*Number appeared*	*Number passed*	*Percentage*
'B' Certificate	15	12	80%
'C' Certificate	2	2	100%

Capt. G. G. Lele of this Unit was sent for Refresher Training Course at HQ Bombay Engineer Group, Kirkee from the 18th October to the 15th November, 1961.

(4) *20th Gujarat Medical Company N.C.C.*

The Unit was started from the 23rd July, 1956. The authorised strength of the Unit is 2 Officers and 120 Cadets but the actual number of Officers and Cadets during the year under report were 2 and 91 respectively. The Unit carried out its scheduled training and other activities from the last week of June, 1961 to the second week of February, 1962.

The Unit celebrated the N.C.C. Week in December, 1961 along with other N.C.C. Units in Station. A Combined Annual Training Camp of Medical Companies of the Gujarat State was held at Ahmedabad from the 25th December, 1961 to the 7th January, 1962. One Officer and 72 Cadets of the Unit attended the camp.

B and G Part I Certificate examinations were held at Baroda on the 11th February, 1962. The results are as under:

Examination	*Number appeared*	*Number passed*	*Percentage*
'B' Certificate	27	22	81%
'G' Part I Certificate	4	4	100%

Lt. (Kumari) S. S. Sawant completed the Pre-commission Training Course at Officer Training School, Kamptee from the 1st May to the 30th June, 1961 and at A.F.M.C., Poona from the 1st to the 15th July, 1961. U/o. J. K. Desai and SGT. N. R. Shah of the Unit were selected for Republic Day contingent held at Delhi on the 26th January, 1962.

The Unit celebrated the 'Company Day' on the 17th February, 1962 and the prizes were distributed by the Dean, Faculty of Medicine, Baroda.

(5) *16th Gujarat Girls Troop N.C.C.*

The Unit was started in November, 1957 under the name of '22nd Bombay Girls Troop N.C.C.'. Owing to the bifurcation of the Old Bombay State, it is now renamed as '9th Gujarat Girls Troop N.C.C.'. It was being administered since formation by the OC 6th Bombay Battalion N.C.C. (now 3rd Gujarat Battalion N.C.C.) till the 30th August, 1960. The Troop has been transferred to the OC 17th Gujarat Air Squadron N.C.C. The troop has been divided into three sub-troops designated as 16th, 17th and 18th Gujarat Girls Troop N.C.C. respectively with effect from the 24th October, 1961. For administrative convenience, the Unit is being referred to as '16th Gujarat Girls Troop N.C.C.'. Since this Unit came in touch with the Air Force Unit, the gliding training was also introduced to a few selected cadets of the troop.

The authorised strength of the Unit is 3 N.C.C. Lady Officers and 135 Girl Cadets; but the actual strength is 2 N.C.C. Lady Officers and 110 N.C.C. Girl Cadets. The Girl Cadets of the troop are taught various subjects like Morse, Wireless Training, Squad Drill, Signal Training, Map Reading, Sanitation, Hygiene and First Aid. The Air Wing Girl Cadets are taught special subjects like Airmanship, Meteorology, Aero-modelling and Navigation, etc.

The N.C.C. Week was celebrated during December, 1961. Ceremonial Parade and Flag March were organised under the chairmanship of Hon. Shri K. T. Desai, Chief Justice of Gujarat State. The Officer and Cadets of the Unit also took part in the Republic Day Parade on the 26th January, 1962.

A Combined Cadre and Social Service Camp was held at Hathab (Bhavnagar District) from the 1st to the 12th May, 1961. Six Cadets of the troop attended the camp. One of the cadets was awarded a trophy for the best performance at the camp.

Certificate G Part I and II examinations were held on the 27th January, 1962. The results are as under:

Examination	*Number appeared*	*Number passed*	*Percentage*
G. Part I	9	7	78%
G. Part II	3	3	100%

The troop progressed satisfactorily and discipline was above average. Cadets, Regular and N.C.C. Staff also took keen interest in their duties.

(6) 17th Gujarat Air Squadron N.C.C. :

This is the only Unit of its kind in the whole of the Gujarat State. It was raised on the 1st August, 1959. It is accommodated in the old Polytechnic Hostel Building. The present actual strength of the Unit is 67 cadets. Two Girl Troops *viz.* 4th and 16th Gujarat Girl Troops are affiliated to this Unit. It is also proposed to raise two Junior Division Air Wing Troops under the Group. Two teachers have therefore been detailed for Pre-commission Training at Secunderabad.

A minimum of 2 years and maximum of 4 years course is conducted by the Group. Students undergoing 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 Administrative, (b) Drill and Parade, (c) Aerodynamics, (d) Meteorology, (e) Air Navigation, (f) Aero-Engines, (g) Air Frames, (h) Airmanship and Signals, (i) Air Craft Reconnaissance, (j) Air Armament, (k) Making Model Aircraft. In the Second year they learn gliding in addition to their theoretical subjects. In the third and the fourth years the boys are given powered flying in addition to their usual training. The girls, however, only continue doing gliding as the powered flying is not included in their syllabus.

The Annual Air-Wing Training Camp was held at Bangalore from the 24th December, 1961 to the 6th January, 1962. 64 Cadets of the Unit attended the camp. The Cadets of this Unit won the Best Airmodeller Cup, Best Cadet Cup, Airmodelling Trophy and Best Shooting Competition Cup.

The cadets of the Unit took part in 15th August, 1961 and 26th January, 1962 and N.C.C. Week Celebrations.

'B' Certificate examination was held in February, 1962. 27 Cadets out of 32 passed the examination. The percentage of passing is 84%.

(7) 2nd Gujarat Group N.C.C. Rifles :

This Unit was raised on the 25th February, 1960 at Ahmedabad. It was shifted to Baroda on the 3rd December, 1960. It is at present accommodated in the premises of the Faculty of Technology and Engineering. The group has under its command 9 companies at Baroda, 2 at Surat, one

in Dabhoi and one in Godhra. The strength of the Unit during the year was 9 Gent Officers, One Lady Officer, 1324 Boy Cadets and 200 Girl Cadets.

Five N.C.C. Rifle Officers of the Unit attended the Pre-commission Training at Kamptee from the 29th March, 1961 to the 28th June, 1961. One Cadet Officer is also attending the training and will complete the same by the 26th June, 1962. One Girl Cadet officer has been selected for the three months' Pre-commission training.

The Annual Training Camp was held at Dakor in the month of October, 1961 under command and control of the Group Commander, HQ. No. 1, Gujarat Group N. C. C. R ; Ahmedabad. 224 N.C.C. R. Boy Cadets of this group attended the camp.

378 N.C.C.R. Boy Cadets and 67 N.C.C.R. Girl Cadets of the Group have appeared at the 'B' Certificate and 'G' Part I examinations respectively. Three N.C.C.R. Cadets have also appeared at the 'C' certificate examination. The results were not declared during the year under report.

(8) 20th Gujarat Signal Section N.C.C.

The Unit was raised in April, 1960. The authorised strength is 2 N.C.C. Officers and 120 cadets. During the year the total strength of Cadets was 108. The regular training of the section started from the 25th June, 1961 and terminated on the 4th February, 1962. The training was imparted on Sunday and Wednesday according to Syllabus to the 1st Year and 2nd Year Cadets.

The Section celebrated the N.C.C. Week in December, 1961 along with other N.C.C. Units in the Station. A Combined Annual Training Camp was held at Ahmedabad from the 23rd December, 1961, to the 5th January, 1962. 87 Cadets of the Section attended the camp.

'B' Certificate examination was held on the 2nd January, 1962 during the camp. 18 Cadets appeared of which 17 passed the examination. The percentage of passing was 94%.

The progress of the Section was considerably good and the standard of training and discipline was also satisfactory.

(9) 3rd Gujarat Technical Air Squadron, N.C.C.

This Unit was raised in July, 1960. It is the only one of its kind in the whole of Gujarat State and one of the four in the whole of India. It is accommodated at present in two rooms in the building of the 18 En-

gineering Platoon N.C.C. temporarily. The Unit enrolled 19 cadets during the year under review from the Faculty of Technology and Engineering and Polytechnic. It has 2 N.C.C. Officers and 39 Cadets on its strength at present. The training for the first and second year course has been completed. The Cadets of this Unit participated in the No. 3 Zonal Air Wing Camp held at Jalahalli, Bangalore, from the 24th December, 1961 to the 6th January, 1962. Cadets of this Unit took an active part in the N.C.C. Week Celebrations held in the first week of December, 1961. One of the Cadets of this Unit also attended the Republic Day parade held at New Delhi. One N.C.C. Officer has successfully completed his refresher training course held at Hyderabad in May/June, 1961.

'B' Certificate examination was held in February, 1962. 15 Cadets appeared at the examination and all passed. The percentage of passing is 100%.

5. The Shakespeare Society

The Shakespeare Society (started in 1951) provides opportunity to students to participate in the reading and the staging of English plays. The purpose is to promote understanding of Drama as a human document and to encourage amateur stage production as an educative activity. Students from the different Faculties join together in the staging of the plays which incidentally means an important avenue for Inter-Faculty contact among students. The Society has produced on the average two plays every year in the past. During the year under report it produced three plays: (1) Rabindranath Tagore's 'Red Oleanders' (as part of the Tagore Centenary Celebrations organised by the University), (2) Shakespeare's 'The Merchant of Venice' and (3) Somerset Maugham's 'Home and Beauty.'

6. Students' Common Room

The University has two common Rooms on the campus—one for men students and the other for women students. Cafetarias are also attached to both. 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' association, social functions, lectures, indoor games and tournaments. A third Common Room for non-resident

students was constructed during the year at a cost of Rs. 1,39,000 with the help of grants from the University Grants Commission, the Government of Gujarat and the Students' Association of the Faculty of Technology and Engineering near the Faculty of Technology and Engineering.

7. 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. Equipments and furniture items were 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, (4) Assembling Electrical and Electronic appliances and (5) Photography (as a hobby). Students showed considerable interest in different hobbies. 121 students were registered during the year as against 40 in the year 1960-61. The students celebrated the Annual Day on the 3rd March, 1962 and the Pro-Vice-Chancellor, Dr. C. S. Patel was the Chief Guest of the function. A small exhibition of the various items of the different hobbies, prepared by the students was also arranged on the occasion.

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