

25

M.S. University of Baroda

Silver Jubilee Year

Annual Report

1973 - 74.

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

ANNEXURE 9
Enclosure To Senate, Item No. 9

Senate. - 8 DEC 1974



SILVER JUBILEE YEAR ANNUAL REPORT 1973-74





SILVER JUBILEE

Established in April 1949, the Maharaja Sayajirao University of Baroda is celebrating during 1974-75 its Silver Jubilee. The celebrations on the campus to mark the occasion are more than merely commemorative of 25 years of ceaseless endeavour in the cause of higher education. They are also informed by the spirit of urgency and caution as the University prepares itself to face the challenges, academic and financial, the future may have in store.

Baroda is no longer the small, neat, compact place it was twenty-five years ago. The city now sprawls and stretches in all directions, far beyond the limits of colonial uncomplicated yesterday. The University, too, is not the small, neat, compact institution it was in 1949. Twenty thousand students, some from distant parts of the world, reading a variety of exciting courses in several disciplines, flock here. Unremitting pressures on its resources may have somewhat thwarted but they have not stopped the University's programme of meaningful expansion. Even now it remains a lively and invigorating place.

The unique residential and unitary character of the University has been ardently guarded by the city. The partnership between the town and the gown grows stronger every day as they look forward to making a joint contribution to the development of the country and the advancement of knowledge.



THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

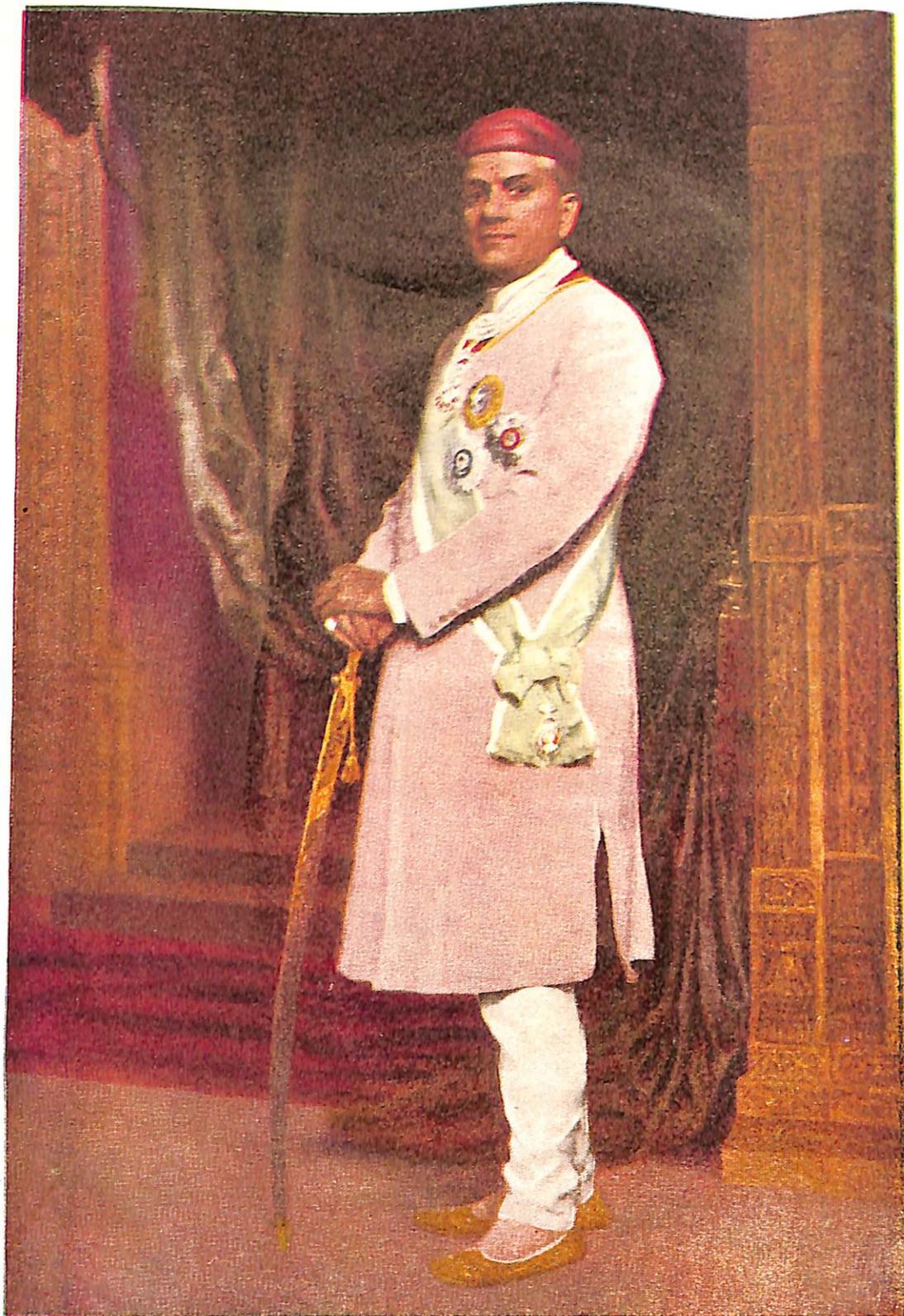
TWENTY-FIFTH ANNUAL REPORT, 1973-74

(1st April, 1973 to 31st March, 1974)

CONTENTS

CHAPTER NUMBER	SUBJECT	PAGES
	Introduction	1
I	General	9
II	Officers of the University	22
III	The Syndicate and the Senate	25
IV	Other Authorities of the University	28
V	Other Boards and Committees	39
VI	Research Work in the University	46
VII	Visiting Lecturers	63
VIII	Faculty of Arts	68
IX	Faculty of Science	85
X	(A) Faculty of Education and Psychology	103
	(B) University Experimental School	117
XI	Faculty of Commerce	122
XII	Faculty of Medicine :	
	(A) Medical College	125
	(B) Sheth Ujamshi Pitambardas Ayurvedic Research Unit	139
XIII	Faculty of Technology and Engineering	142
XIV	Faculty of Fine Arts	157
XV	Faculty of Home Science	165
XVI	Faculty of Social Work	171
XVII	Faculty of Law	180
XVIII	Oriental Institute	183
XIX	College of Indian Music, Dance and Dramatics	190
XX	Baroda Sanskrit Mahavidyalaya	193
XXI	Preparatory Unit—Arts and Commerce	197

CHAPTER NUMBER	SUBJECT	PAGE
XXII	Preparatory Unit—Science	199
XXIII	Shri M. K. Amin Arts and Science College and College of Commerce, Padra.. .. .	200
XXIV	Polytechnic	203
XXV	Department of Continuing/Adult Education	207
XXVI	Shrimati Hansa Mehta Library	212
XXVII	The M. S. University of Baroda Press	217
XXVIII	The Maharaja Sayajirao University Union	219
XXIX	General Education Centre	221
XXX	Students' Welfare Activities	224
Appendices		
I	Number of University Students	238
II	Number of Non-University Students	239
III	List of Degrees and Diplomas conferred at the Annual and Supplementary Convocations during 1973-74	240
IV	Number of Teachers	242
V	List of Candidates qualifying for the Ph.D. Degree during 1973-74	243
VI	Result of University Examinations held in March/April, 1973.. .. .	247
VII	Result of University Examinations held in October/November, 1973	254
VIII	Capital Accounts	260
IX	Revenue Accounts	262
X	Grants for Development and Research Schemes during 1973-74	267
XI	Number of Students admitted to various Halls of Residence during 1973-74	268



MAHARAJA SAYAJIRAO III

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TWENTY-FIFTH ANNUAL REPORT, 1973-74

INTRODUCTION

The idea of establishing a University at Baroda started engaging the attention of the former Government of Baroda State in the year 1909. Some schemes for the establishment of the University were framed but none of them materialised. The Baroda University Commission of 1925 made out a strong case for the 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 programmes, the 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, the idea was not given up. The following institutions of higher education were 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, the late His Highness Maharaja Sir Pratapsinh Gaekwad revived the idea of the University and appointed a Committee to consider the question of the early establishment of the University. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended the establishment of a primarily teaching and residential University with powers to affiliate mofussil colleges. It favoured the tutorial system of

instruction. All the existing institutions of higher education 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 21st February, 1949, decided to establish a residential University for Baroda and to affiliate to it the Colleges at Visnagar, Petlad and Navsari which were situated in the State of Baroda. Due to the subsequent merger of the Baroda State with the State of Bombay, the jurisdiction of the University was restricted to the area within a radius of ten miles from the University Office. The University started working on 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 taken over were re-organised into the 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. To start with, the University followed the Bombay University courses and the standards of admissions, examinations, etc. The first examinations of the University were held in March-April, 1951.

Growth of Student Enrolment

Student Enrolment : When the University first started functioning in April, 1949, it had, as its total strength 2,962 students, of whom 131 were

post-graduate students, 902 undergraduate students and the remaining reading for the under-graduate diploma or certificate courses. In the next twenty-four years, the total enrolment of students in the University has soared from 2,962 to 20,266 registering an increase of 17,304 or a six-fold increase.

In 1951, the total number of men students was 3,046. This number has increased to 14,712 in 1973-74. The rise in the enrolment of women students has been more remarkable. Between 1951 and 1973-74 the enrolment of women students in the University has increased from 352 to 6,314.

The enrolment trends over the last twenty four years in the University are indicated in the following table :

Year	Total enrolment	Increase/decrease over the preceding year	Percentage increase/decrease
1950-51	2405	—	—
1951-52	3398	993	41.2
1952-53	3992	594	17.5
1953-54	4585	593	14.9
1954-55	5600	1015	22.1
1955-56	4683	-717	-22.4
1956-57	4968	85	1.4
1957-58	5785	817	16.5
1958-59	6853	1073	18.5
1959-60	7726	868	12.7
1960-61	8214	488	6.3
1961-62	8974	760	9.2
1962-63	10134	1160	12.9
1963-64	10315	181	1.6
1964-65	10954	639	6.2
1965-66	11629	675	6.1
1966-67	13223	1594	12.1
1967-68	14235	1012	7.1
1968-69	14396	161	1.1
1969-70	15311	915	5.9
1970-71	15930	619	3.9
1971-72	16590	660	4.0
1972-73	17986	1396	7.8
1973-74	18551	565	3.1

Sex-Ratio in different Faculties : The table below gives ratio of men to women students in various Faculties and Institutions of the University for the years 1950-51, 1960-61, 1970-71 and 1973-74.

	1950-51		1960-61		1970-71		1973-74	
	Men %	Women %						
Arts	72.1	27.9	65.7	34.3	47.5	52.5	54.1	45.9
Science	—	—	87.5	12.5	72.2	27.8	68.1	31.9
Education and Psychology	87.2	12.8	63.0	37.0	39.7	60.3	37.2	62.8
Commerce	—	—	82.6	17.4	82.6	17.4	75.6	24.4
Medicine	89.8	10.2	82.6	17.4	84.0	16.0	83.9	16.1
Technology and Engineering	99.6	0.4	99.0	1.0	97.7	2.3	97.5	2.5
Fine Arts	—	—	83.6	16.4	73.0	27.0	75.7	24.3
Home Science	—	100.0	—	100.0	0.1	99.9	0.4	99.6
Social Work	85.8	14.2	75.0	25.0	56.0	44.0	58.4	41.6
Law	—	—	—	—	89.3	10.3	87.3	12.7
College of Indian Music, Dance and Dramatics	80.0	20.0	63.3	36.7	44.1	55.9	50.5	49.5
Baroda Sanskrit Mahavidyalaya	—	—	85.7	14.3	80.0	20.0	83.3	16.7
Preparatory Units.	—	—	80.7	19.3	75.2	24.8	68.7	31.3
Polytechnic	—	—	99.6	0.4	99.4	0.6	99.6	3.4
Shri M. K. Amin Arts & Science College and College of Commerce, Padra	—	—	—	—	90.8	9.2	94.1	5.9

Student Enrolment in Post-graduate Courses: The enrolment of students in various post-graduate courses offered in different Faculties and Institutions of the University has been showing a steady rise from 1950-51. The enrolment in the Post-graduate courses which was 304, to start with, has gone on increasing year by year and has reached the figure of 2123 in 1973-74 registering an over-all increase of 1819. The number of post-graduate men students between 1950-51 and 1973-74 has increased by 1223 (1487 less 264) and the women students by 596 (636 less 40)

Growth of Enrolment in Degree Course: In 1950-51 there were 2161 students reading in the under-graduate classes of different faculties and institutions of the University. The figure for 1973-74 is 14399. Thus, the under-graduate student population of the University has increased by 12238 showing six times increase between 1950-51 and 1973-74. The increase in case of men students and women students during the same period is 8504 (10394 less 1890) and 3734 (4005 less 271) respectively.

Percentage/Increase in Student Enrolment

Faculty	1969-70	1970-71	1971-72	1972-73	1973-74
Arts	12.4	12.2	12.9	12.2	12.3
Science	9.9	9.9	9.5	9.0	8.7
Education and Psychology	2.4	2.8	2.7	2.5	2.5
Commerce	11.9	14.7	14.7	15.4	16.0
Medicine	4.6	4.7	4.6	4.4	4.2
Technology and Engineering	17.9	17.1	15.8	14.5	14.4
Fine Arts	1.3	1.3	1.3	1.3	1.3
Home Science	4.3	4.3	4.7	4.6	3.8
Social Work	0.5	0.5	0.6	0.5	0.5
Law	3.6	3.9	4.5	4.9	5.8
Preparatory Unit—Arts and Commerce	12.0	9.3	9.4	8.8	8.6
Preparatory Unit—Science	6.9	6.9	6.4	5.4	5.8
M. K. Amin Arts and Science College and College of Commerce, Padra.	4.1	4.1	4.8	8.1	7.4
College of Indian Music, Dance and Dramatics	0.5	0.4	0.5	0.5	0.5
Sanskrit Mahavidyalaya	0.3	0.3	0.3	0.3	0.3
Polytechnic	7.4	7.7	7.3	7.2	7.9
	100.0	100.0	100.0	100.0	100.0

University Teachers

University Teachers and Staff-Student Ratio: The total number of teachers (including Teaching Assistants, Assistant Lecturers, Senior/Junior Instructors and Part-time Lecturers) in the Faculties of the University during the year under report is 980 (including 118 teachers of Medical College) as against the total student enrolment of 18,551. This gives an over-all teacher-student ratio of 1:18.9. The corresponding strength of University teachers and staff student ratio over the last five years is indicated below:

Year	No. of University Teachers	Student Enrolment	Staff-Student Ratio
1969-70	867	15,311	1:17.6
1970-71	887	15,930	1:17.9
1971-72	914	16,590	1:18.1
1972-73	954	17,986	1:18.85
1973-74	980	18,551	1:18.9
			1:19

Hostel and Health Services

Halls of Residence: With a rapid increase in student enrolment, the pressure of demand from students for residential accommodation in the University Halls of Residence has grown immensely. The University has been taking all possible steps to increase hostel facilities for students. In 1949, the University had accommodation for only 400 men students and no accommodation for women students. At the end of the year under review there were 12 Halls for men and 4 for women students. There were 2473 men students and 839 women students residing in different halls. The percentage of students residing in the University hostels works out to 17.8. The corresponding figures for the five years are as under:

Year	Students residing in Hostels			Percentage of Resident students to the Total Enrolment		
	Men	Women	Total	Men	Women	Total
1969-70	2,078	788	2,866	13.6	5.1	18.7
1970-71	2,225	818	3,043	14.0	5.1	19.1
1971-72	2,358	871	3,229	14.2	5.2	19.4
1972-73	2,368	844	3,212	13.1	4.7	17.8
1973-74	2,473	839	3,312	13.3	4.5	17.8

Health Service: The University staff, their families and the students have availed of the Health service facilities provided by the University Health Centre. This is evident from the following figures for the patients treated and daily average attendance over a period of last five years.

Year	No. of Cases Treated				Total Cases	Daily average attendance
	Staff and their families	%	Students	%		
1969-70	12,325	42.1	16,941	57.9	29,266	80.2
1970-71	11,866	37.7	19,543	62.3	31,409	86.0
1971-72	10,764	33.1	21,807	66.9	32,571	90.2
1972-73	10,638	32.5	22,115	67.5	32,753	89.7
1973-74	9,391	37.6	15,602	62.4	24,993	90.9

It was difficult for the employees staying outside the campus in the city to take advantage of the Health Centre situated in University area. To provide health facilities to these employees two centres were established—one near Kothi and the other at Bajwada and Pratapnagar area. A good number of employees and their family members availed of the facilities at these two centres.

Other Developments

In the twenty-five years of its existence, the faculties and institutions of the University have made considerable progress. The courses have been thoroughly revised to keep pace with recent development and advances in various fields of knowledge. Efforts are being made to improve conditions, academic and physical, in the Faculties and Institutions. New departments have been added and new programmes of training and research undertaken. Provision of adequate staff, improvement of old buildings, addition of new buildings, increased grants for equipments and teaching aids, provision for a closer contact between teachers and students, creation of a suitable academic climate, development of library and laboratory facilities for the staff and the students, increasing the research output, introducing innovations in teaching and examination procedures and the maintenance of student discipline—all these have continued to receive the closest attention.

The new faculties of Fine Arts, Home Science and Social Work were established in the year 1950 and the Faculty of Law in 1961. In 1965 a new College—Shri Manibhai Kashibhai Amin Arts and Science College and College of Commerce was opened at Padra.

With financial assistance from the University Grants Commission, the University was able to strengthen and consolidate the teaching and research activities in various departments of humanities, social sciences and sciences. The University started the three year degree course in Arts, Science and Commerce and post-graduate courses in Bio-Chemistry, Microbiology, Geology and Home Science. The Departments of Archaeology and Ancient History, and Museology were also developed with the help of the grants received from the University Grants Commission. The Department of Education has been upgraded as a Centre for Advanced Study in Education (CASE) to carry on research on problems of education on an All India basis in 1963-64. During the year 1972-73, a new Department of Continuing/Adult Education Department was established and the Department of Biochemistry was selected by the University Grants Commission under the scheme of Special Assistance Programme. Buildings for teaching purposes, and residential accommodation for students and teachers were also constructed with the help of substantial grants from the University Grants Commission in the Second, Third and Fourth Plan periods.

Under an expansion scheme in the Second and Third Plan periods, the Faculty of Technology and Engineering increased the intake of students from 75 to 300 in degree courses in Civil, Mechanical and Electrical Engineering. Two new Departments viz. Chemical Engineering and Metallurgical Engineering were established in 1963 and 1966 respectively. The Sandwich pattern has been

also introduced for limited number of students in Chemical, Electrical, Mechanical and Metallurgical Engineering degree courses. Ten post-graduate courses in different branches of Applied Mechanics and Civil, Mechanical, Electrical and Textile Engineering, for which grants are being provided by the University Grants Commission, have also been instituted. A new institution called the Polytechnic was established in the year 1957 to conduct diploma courses in Civil, Mechanical and Electrical Engineering. Two schemes approved by the All India Council for Technical Education and the University Grants Commission enabled the University to raise the intake of students in Diploma Classes at the Polytechnic from 180 to 360. The (Extended) Diploma Courses in Civil, Mechanical and Electrical Engineering with an intake of 100 students were started in the Polytechnic in the year 1963. Model Diploma Courses in Petro-Chemical Technology were started from 16th November, 1970 under the INDO-USSR Credit Agreement of December, 1966.

During the year 1973-74, new Departments of Pharmacy, Applied Physics, Applied Chemistry and Applied Mathematics have been opened in the Faculty of Technology and Engineering.

The University has been selected by the University Grants Commission for introducing reforms in the present examination system.

The University has decided to introduce a two year Diploma Course in Military Science from the year 1974-75.

The development activities during the preceding years are described in the Twenty-four Annual Reports published so far by the university. The Twenty-fifth Annual Report covers the period from 1st April, 1973 to 31st March, 1974 and is submitted to the Senate in accordance with Section 24(2) of the Maharaja Sayajirao University of Baroda Act as amended upto date.

CHAPTER I—GENERAL

1. Institutions of the University

Constituent and Recognised Institutions (Under Section 42 and 69 of the Act)

(1) Faculty of Arts, (2) Faculty of Science, (3) Faculty of Education and Psychology, (4) Faculty of Commerce, (5) Faculty of Medicine, (6) Faculty of Technology and Engineering, (7) Faculty of Fine Arts, (8) Faculty of Home Science, (9) Faculty of Social Work, (10) Faculty of Law, (11) Oriental Institute, (12) College of Indian Music, Dance and Dramatics, (13) Baroda Sanskrit Mahavidyalaya, (14) Preparatory Unit—Arts and Commerce, (15) Preparatory Unit—Science, (16) M. K. Amin Arts and Science College and College of Commerce, Padra, (17) Polytechnic, and (18) Museum and Picture Gallery.

2. Number of Students

The number of University students during the year was 18,551 (13,859 men students and 4,692 women students) and that of non-University students was 1715 (1,905 men students and 622 women students). The details of the students are given in Appendices I and II.

3. Special Features of the year

(1) Convocations :

(i) The Twenty Third Annual Convocation was held in the University Gardens on 3rd November, 1973. Shri Fatehsinhrao P. Gaekwad, Chancellor presided over the Convocation. Dr. S. Nurul Hasan, Minister of Education, Government of India delivered the Convocation Address. 3,189 Degrees and Diplomas were conferred.

(ii) The Fourteenth Supplementary Convocation was held in the Auditorium of the General Education Building on 31st March, 1974. The Vice-Chancellor presided over the Convocation. 494 Degrees and Diplomas were conferred.

The details about the award of degrees and diplomas at the above Convocations are given in Appendix III.

(2) New Developments :

(i) The University started the following new courses at the Faculty of Technology and Engineering:

- (a) Four and a half year Sandwich Pattern Degree Course in Pharmacy.
- (b) Four Year Part-time Degree Courses in Civil, Mechanical and Electrical Engineering for Diploma holders.
- (ii) The Department of Continuing/Adult Education has been given the Status of College and is designated as Centre for Continuing/Adult Education and Community Services under Senate Resolution No. 10 dated 31-3-1974.
- (3) *Buildings:*
- (a) The following buildings were completed during the year:
- (i) New building for the Department of Geography.
- (ii) New buildings for the Faculty of Fine Arts.
- (iii) Extension on East side of the building for Post-graduate courses, Laboratories for Electrical Engineering Power and Instrumentation.
- (iv) 30 Quarters for Class IV employees.
- (v) Overhead Tank and Sump at the Faculty of Technology and Engineering.
- (vi) Additional Water Tank over the East Wing of Shri M. Viswasaraya Hall.
- (vii) R.C.C. over head Tank, underground sump and pump room behind Shri T. K. Gajjar Hall.
- (b) The following buildings were under construction:
- (i) Hostel for 140 students under the scheme of Introduction of 9 Post-graduate courses in Civil, Mechanical and Electrical Engineering.
- (ii) Building under the scheme of 5 year Integrated Degree courses in Civil, Mechanical and Electrical (Part of Metallurgical) Engineering.
- (iii) Library Building for Under-graduate students.
- (iv) Building for Model Diploma Courses in Petro-Chemical Engineering at the Polytechnic.
- (v) Second phase of expansion of the Faculty of Commerce building.
- (vi) Canteen and Common Room on the Campus of the Faculty of Arts.

- (4) *Summer Institutes, Schools, Seminars and Conferences:*
- (i) Summer Institute in English, Department of English, Faculty of Arts.
- (ii) Fourth Annual Input and Output Seminar—Department of Economics, Faculty of Arts.
- (iii) Seminar on unprotected and unorganised Labour—Department of Agricultural Economics, Faculty of Arts.
- (5) *Distinguished Visitors to the University:*

<i>Visitor</i>	<i>Date of Visit</i>
(i) Dr. Wilson E Schmidt, Professor and Head, Department of Economics, Virginia Polytechnic Institute	16-8-1973
(ii) Shri Maganbhai Barot, Minister of State for Education, Government of Gujarat	18-8-1973
(iii) Professor Satish Chandra, Vice-Chairman, University Grants Commission, New Delhi	22-9-1973
(iv) Mr. Luis Vieentne Chang, WHO Consitant, World Health Organisation, Regional Office for South East Asia, New Delhi	23-10-1973
(v) Professor J. Tilakasiri, Head, Department of Sanskrit, University of Ceylon	9-11-1973
(vi) Dr. Staba, Professor and Chairman, Department of Pharma-Cognosy, College of Pharmacy, University of Minnesota, U.S.A.	12-11-1973
(vii) Dr. Robert T. Taylor, Regional Education Adviser, British High Commission, British Council Division, Bombay	10-12-1973

Visitor	Date of Visit
(viii) Dr. John R. Wood, Resident Director, Shastri Indo-Canadian Institute, New Delhi	21-12-1973
(ix) Dr. (Mrs.) Manee, Kuanpoopoi, UNESCO Specialist in Home Economics and Population Education, Indian National Commission for Co-operation with UNESCO, Government of India, New Delhi	22-3-1974

(6) Silver Jubilee Celebration Committees:

The University will complete 25 years on 29th April, 1974. In order to celebrate the Silver Jubilee in the year 1974-75, the University has appointed Committee under the Chairmanship of Professor N. S. Pandya, to suggest details regarding the Silver Jubilee Celebrations. An Editorial Board for the preparation of Commemoration Volume and a Souvenir of the Silver Jubilee Celebrations has been also appointed under the Convenership of Professor S. M. Sethna.

(7) Examination Reform:

This University was among the first few Universities in [the Country to make a beginning in some of the vital reforms in internal assessment. During the year under report, this University was one of the 12 Universities of India, selected by the University Grants Commission for introducing reforms in the present Examination System in the light of the recommendations contained in their report on 'Examination Reform—A Plan of Action'.

4. Teaching Staff

There are 57 Professors, 129 Readers, 512 Lecturers, 112 Teaching Assistants, Assistant Lecturers, Instructors and Ustads, 52 Honorary, Part-time and others, the total being 862 (Appendix IV). This excludes the teaching staff of 118 in the Medical College.

5. Faculties to the Teaching Staff for further Studies

(i) The following teachers who were granted facilities earlier returned to the University:

Sr. No.	Name of the Teacher	Qualifications and Experience acquired
(1)	Dr. K.T.M. Hegde, Reader in Invironmental Archaeology	Acquired experience of teaching and re- search work at St. John College, Cam- bridge.

Sr. No.	Name of the Teacher	Qualifications and Experience acquired
(2)	Dr. S. R. Hashim, Reader in Economics	Completed his assignment at the Uni- versity College of South Wales, U.K.
(3)	Shri J. K. Vyas, Lecturer in Applied Mechanics	Completed advanced study at the Tech- nical University of Munich, West Ger- many.
(4)	Kum. Urmila Patel, Assistant Lecturer in Foods and Nutrition	M. S. at the University of Kansas, U.S.A.
(5)	Shri Y. D. Kelkar, Lecturer in Dramatics	Acquired advanced training in Stage Craft and visited various theatres in West Germany.
(6)	Shri K. Ethirajulu, Lecturer in Chemical Engineering	Acquired higher training in Technology of Production of Oil and Gas in U.S.S.R.
(7)	Shri N. M. Surana, Senior Instructor in Chemical Engineering	Acquired higher training in Technology of Production of Fertilizers and Acids in U.S.S.R.
(ii) The following teachers were granted facilities for higher studies, research, visit, etc. in India or Abroad.		

Sr. No.	Name of the Teacher	Purpose
(1)	Shri H. V. Bhavnani, Reader in Civil Engineering	For training in Air Environmental Studies in Australia.
(2)	Smt. S. R. Katkar, Senior Physical Instructor	For further studies leading to M.P.Ed. degree at the Y.M.C.A. College of Phy- sical Education at Madras.
(3)	Shri B. N. Shah, Lecturer in English	For further studies leading to M.A. degree in English Literature at the Graduate School of Studies at Brown University, Providence, U.S.A.
(4)	Shri C. S. Lalwani, Lecturer in Electrical Engineering	For higher studies leading to M. Engg. in System Test Technology at the Uni- versity of Wales, Institute of Science and Technology in U.K.
(5)	Dr. M. V. Chidambaram, Lecturer in Chemistry	To enable him to avail of the Post-doctoral Research Fellowship offered by the Na- tional Science Council of Ireland.

<i>Sr. No.</i>	<i>Name of the Teacher</i>	<i>Purpose</i>
(6)	Dr. S. D. Desai, Reader in Geology	To enable him to accept the award from Royal Society Bursary for Advanced Studies in U.K.
(7)	Shri P. M. Modi, Reader in Civil Engineering	For further studies leading to Post-graduate Diploma in Hydraulic Engineering at Delft, Netherlands.
(8)	Shri K. V. Gautam, Reader in Civil Engineering	For further studies leading to Master of Science in Transportation Engineering at West Virginia University, U.S.A.
(9)	Shri M. N. Champaneria, Senior Instructor in Mechanical Engineering	For Technical Teachers Training at the T.T.T.I., Bhopal.
(10)	Shri D. B. Parikh, Senior Instructor in Mechanical Engineering	For Technical Teachers Training at the T.T.T.I., Bhopal.
(11)	Shri C. K. Parmar, Senior Instructor in Electrical Engineering	For Technical Teachers Training at the T.T.T.I., Bhopal.
(12)	Shri C. C. Shah, Reader in Mathematics	For doing research and gaining experience in some areas of Applied Mathematics at the Indian Institute of Technology, Bombay.
(13)	Shri K. S. Patel, Senior Instructor in Electrical Engineering	For higher studies leading to M. Tech. degree at the Indian Institute of Technology, Kharagpur.
(14)	Professor A. N. Jani, Professor of Sanskrit	To visit Universities teaching Indology in West Germany and to attend International Congress of Orientalists in Paris.
(15)	Shri H. C. Shukul, Lecturer in Political Science	To enable him to accompany the Group Study Exchange Team of Rotary International, visiting U.S.A.
(16)	Dr. T. C. Pantham, Reader in Political Science	To enable him to go to U.K. under the Exchange of Visits Programme.
(17)	Professor M. B. Buch, Professor of Education	For a study trip to U.S.S.R.

<i>Sr.No.</i>	<i>Name of the Teacher</i>	<i>Purpose</i>
(18)	Dr. Ratan Parimoo, Reader in Art History	To enable him to avail of the Fellowship offered to him by J. D. Rockefeller 3rd Fund, New York.
(19)	Dr. B. K. Pasi,	To avail of the offer of CAS Visitorship at the School of Education in Bristol University and to visit various other Centres within Britain, U.K.
(20)	Dr. D. B. Desai, Reader in Education	

6. University Examination Results

Fifty-two candidates were declared qualified for the award of the Ph.D. degree of this University during the year 1973-74. A statement showing the names, subjects and titles of the theses is given in Appendix V.

Statements showing the University examinations results of (i) March-April-May-June, 1973 and (ii) October-November, 1973 are given in Appendices VI and VII.

7. Endowments and Donations

The Syndicate accepted the following donations:

<i>Name of the Fund</i>	<i>Amount of Donation Rs.</i>	<i>Purpose</i>
1	2	3
(i) Ranchhoddas Lotvala Foundation Scholarship Fund donated by Trustee Chairman, Ranchhoddas Lotvala Foundation, Bombay-4	20,000/-	For awarding scholarship every year in three instalments, to a student who passes at first attempt the B.A. Degree Examination of the M. S. University of Baroda held in March-April with Economics as Major subject with highest number of marks but not less than 50% marks in Economics (Major) and who prosecutes further studies in this University for the M.A. Degree course with Economics (Entire). The scholarship will be tenable in favour of the said student for the second year of M.A. Part II pro-

1	2	3
		vided he continues his studies further for M.A. Part II.
		Provided further that if the student securing highest number of marks fails to prosecute his further studies for the M.A. degree course with Economics (Entire), it shall be awarded to the student who stands next in order of merit and who fulfils all other conditions mentioned above.
		Recipient of this scholarship is not permitted to accept or continue receiving any other scholarship. Therefore, the scholar should decide once and for all whether he wishes to avail himself of this scholarship or any other scholarship. In case he decides not to accept this scholarship, then it shall be awarded to the next eligible candidate.
(ii)	Vijayagauri and Late Vinayakray Yajnik Gold Medal Fund donated by Shri D. V. Yajnik, Baroda 8,000/-	For awarding a Gold Medal annually at the Convocation to a candidate of the regular batch who has passed the whole final M.B.B.S. Examination held by the M. S. University of Baroda at first attempt, obtaining the highest number of marks in the subject of 'Preventive and Social Medicine'.
(iii)	The Salehbai Abbasbhai Bandukwala Prizes Fund donated by Dr. Juzar S. Bandukwala, Department of Physics, Faculty of Science, M. S. University of Baroda, Baroda 5,000/-	For awarding three cash prizes of equal amount as under: (i) To the candidate who has passed the F.Y.B.Sc. Examination held by the M. S. University of Baroda in March/April in First Class at first attempt, obtaining the highest number

1	2	3
		of marks in the subject of Physics (Principal)
		(ii) To the candidate who has obtained the highest number of marks in the subject of Physics (Principal) at the Internal Test Examination of S.Y.B.Sc. conducted by the Faculty of Science.
		(iii) To the candidate who has passed the M.Sc. (Previous Physics) Examination held by the M. S. University of Baroda in March/April at first attempt, obtaining the highest number of marks but not less than 60% marks thereat.
(iv)	Shri Rameshchandra Trikamlal Shah and Smt. Indiraben R. Shah of Padra Gold Medal Fund donated by Shri Trikamlal Maganlal Shah, Advocate, Padra 8,000/-	For awarding a gold medal (provided the cost of the gold medal does not exceed the balance of the interest accrued) in Arts, Science and Commerce at Shri M. K. Amin Arts and Science College and College of Commerce, Padra in the following order of rotation: (a) Arts (b) Science (c) Commerce The gold medal shall be awarded as per following conditions and rotation of years: (i) To the student who has passed the final year B.A. Examination held by the M. S. University of Baroda in March/April with atleast second class, at first attempt, obtaining the

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highest number of marks from amongst the students who have appeared from Shri M. K. Amin Arts and Science College and College of Commerce, Padra at the said examination.

- (ii) To the student who has passed the final year B.Sc. Examination held by the M. S. University of Baroda in March/April with atleast second class, at first attempt, obtaining the highest number of marks from amongst the students who have appeared from Shri M. K. Amin Arts and Science College and College of Commerce, Padra at the said examination.

Provided further that till the opening of the Final Year of B.Sc. classes in Shri M. K. Amin Arts and Science College and College of Commerce, Padra, the amount of award shall be given in form of a cash prize and not a gold medal to be named 'Shri Rameshchandra Trikamlal Shah and Smt. Indiraben R. Shah of Padra Prize' to the student who has passed the Annual Examination of the last highest class in Science Wing at first attempt, obtaining the highest number of marks from amongst the students who have appeared from Shri M. K. Amin Arts

1

2

3

and Science College and College of Commerce, Padra at the said examination.

- (iii) To the student who has passed the Final Year B.Com. Examination held by the M. S. University of Baroda in March/April, with atleast second class, at first attempt, obtaining the highest number of marks from amongst the students who have appeared from Shri M. K. Amin Arts and Science College and College of Commerce, Padra at the said examination.

- (v) Smt. Premadagauri Shivbhadra Pandya
Prize Fund donated by Prof. N. S. Pandya,
Ex-Dean, Faculty of Science, M. S. University of Baroda, Baroda 3,000/-

For awarding every year a prize in cash, to a lady student who has passed the Final Year B.Sc. Examination of the M. S. University of Baroda held in March/April in First Class at first attempt, obtaining the highest number of marks from amongst the lady students who have appeared for the said examination.

- (vi) Smt. Kunjalata Niranjana Pandya
Prize Fund donated by Prof. N. S. Pandya, Ex-Dean,
Faculty of Science, M. S. University of Baroda, Baroda 3,000/-

For awarding every year a prize in cash, to a lady student who has passed the Final Year B.A. Examination of the M. S. University of Baroda held in March/April in First Class at first attempt, obtaining the highest number of marks from amongst the lady students who have appeared for the said examination.

- (vii) Shri Ranchhodlal Chhotalal Shah Gold 8,000/-

For awarding a gold medal annually at the Convocation to a student

1	2	3
Medal in Mathematics Fund donated by Shri Padmakant R. Shah, B.Sc., A.L.A. (London), National Rayon Corporation Ltd., Mahone-Kalyan (Maharashtra)		who has passed the M.Sc. Final Examination with Mathematics of the M. S. University of Baroda held in March/April at first attempt, in first class, obtaining the highest number of marks thereat.
		In case of a tie between two or more students, obtaining equal number of marks at the M.Sc. Final Examination, the medal shall be awarded to one of them who has obtained the highest number of marks at the M.Sc. (Previous) Examination.
(viii) Smt. Bharatiben Mahendrabhai Dixit Memorial Prize Fund donated by Shri M. C. Dixit, Baroda	2,500/-	For awarding every year a prize in cash to the student who has passed the Final Year B.E. (Electrical) Examination of the M. S. University of Baroda held in March/April in First Class at first attempt, obtaining the highest number of marks thereat.

8. Finances of the University

(1) Capital Accounts:

Statement showing the income and expenditure of the (i) University General Fund, (ii) Ayurvedic Research Fund and (iii) Post-graduate Instruction and Research Fund during the financial year 1973-74 are given in Appendix VIII.

(2) Revenue Accounts:

The receipts and disbursements during the financial year 1973-74 were Rs. 1,54,24,546-10 and Rs. 2,07,04,733-84 respectively leaving a deficit of Rs. 52,80,187-74. Details of the Accounts are given in Appendix IX.

(3) Grants:

The University received grants totalling Rs. 57,26,000-64 on development schemes from the University Grants Commission and Government of Gujarat

and for various research schemes, studies, projects etc. from the Central Ministries, State Government Departments, C.S.I.R., the United States Department of Agriculture, Ford Foundation and other outside agencies. The details are given in Appendix X.

9. Construction Division

(1) Capital Works:

The Construction Division supervised the construction of various buildings, extensions, additions and alterations and an amount of Rs. 20,68,513-47 was spent during the year on capital works.

(2) Ordinary and Special Repairs:

The total expenditure on repair works during the year was Rs. 1,92,589-03 and Rs. 3,73,845-34 on Ordinary and Special Repairs respectively. Also an expenditure amounting to Rs. 9,317-58 was incurred on immediate petty repairs to buildings.

10. A Department of Continuing/Adult Education

The Syndicate of the M. S. University of Baroda decided to establish a new Department of Continuing/Adult Education by passing a Resolution No. 2 (10) in September, 1971. The Department started functioning in September, 1972 when Dr. S. Kapoor was appointed as Professor and Head of the Department. The University received sanction of non-recurring and recurring grants for the period upto the end of March, 1979 from University Grants Commission on 75 percent basis in order to establish and maintain the Department. Administratively, the Department is directly under the Vice-Chancellor of the University.

The Department is an educational arm of the University and has been conceived as a primary agency through which the University, inter alia, plans to offer its educational resources to appropriate adult groups, community agencies and organizations. The role of the Department, as envisaged, is to co-ordinate, guide and provide leadership for educational programmes at the University level for adults. The Department also hopes to offer postal courses in future.

The activities undertaken by this department in the year 1973-74 are described in detail under Chapter XXV.

CHAPTER II—OFFICERS OF THE UNIVERSITY

1. Officers

(1) The Chancellor

Shri Fatesinhrao Pratapsinhrao Gaekwad is the Chancellor of the University under Statute 110 A.

(2) The Vice-Chancellor

Shri N. K. Vakil, B.A., LL.B. (Bom.), continued to work as Honorary Vice-Chancellor under Statute 115 during the year. He attended the following meetings :

- (i) Joint Board of Vice-Chancellors at Gandhinagar on 9th April, and at Ahmedabad on 3rd June, 1973.
- (ii) Meetings of the Finance Committee and Standing Committee of the Inter-University Board at New Delhi on 30th April, 1st May, 7th and 18th September, 1973.
- (iii) Executive Committee of the Indian University Association for Continuing Education at New Delhi on 1st May, and 18th September, 1973.
- (iv) Meeting of the U.G.C. Committee for Utilization of Services of Retired Teachers at New Delhi on 3rd April, 1973.
- (v) Standing Committee Meeting of the U.G.C. to advise on Adult Education at New Delhi on 22nd November, 1973.
- (vi) 67th and 68th meetings of the Western Zone Advisory Board of the Life Insurance Corporation of India at Nasik on 12th July and at Bombay on 16th October, 1973.
- (vii) Meetings of the State Higher Education Committee at Ahmedabad on 11th and 18th May, 23rd July, 4th, 5th and 6th December, at Rajkot on 10th and 11th December, at Sanosara on 12th December, at Bhavnagar on 13th December, 1973 and at Mehsana on 7th and 8th January, 1974.
- (viii) Eleventh Quinquennial Congress of the Vice-Chancellors of the Commonwealth Universities at Edinburgh, U.K. from 11th to 18th August, 1973.
- (ix) Conference of the Executive Heads of Commonwealth Universities at Exeter from 22nd to 29th August, 1973

The Vice-Chancellor conducted as Chairman, Advisory Board under the Maintenance of Internal Security Act, 1971, cases in Ahmedabad on 14th May 1973 and 12th and 13th February, 1974.

(3) The Pro-Vice-Chancellor

Professor P. J. Madan, B.Sc. (Engg.), D.I.C., M.Sc. (Eng.), London, M.Inst. H.E. (London), F.I.E. (India) continued to work as Pro-Vice-Chancellor under Statute 120 during the year. He attended the following meetings :

- (i) 44th, 55th and 56th meetings of the Board of Governors, I.I.T., Bombay on 18th May, 7th September, 21st and 29th December, 1973.
- (ii) Meeting of the Evaluation Committee of the Maulana Azad College of Technology, Bhopal on 3rd and 4th May, 1973.
- (iii) Meetings of the working group for Establishing a Central University at Hyderabad held at New Delhi on 11th December, 1973 and at Hyderabad on 14th January, 1974.
- (iv) Meeting of the Board of Studies in Civil Engineering of Sir Visvesaraiya University College of Engineering at Bangalore on 16th February, 1974.
- (v) Meeting of the Board of Governors, School of Planning and Architecture at New Delhi on 4th March, 1974.
- (vi) Western Regional Committee of All India Council for Technical Education—Evaluation Committee, Government College of Engineering at Fermagudi, Goa on 15th March, 1974.

(4) Deans

The following Officers continued to work as Deans of the various Faculties:

Faculty	Dean
(i) Arts	Professor R. N. Mehta
(ii) Science	Professor N. S. Pandya
(iii) Education and Psychology	Professor D. M. Desai
(iv) Commerce	Professor K. N. Naik
(v) Medicine	Dr. V. P. Bhatt
(vi) Technology and Engineering	Professor S. M. Sen
(vii) Law	Professor H. C. Dholakia
(viii) Fine Arts	Professor K. G. Subramanyan
(ix) Home Science	Professor (Kumari) Justina A. Singh
(x) Social Work	Professor (Kumari) Indira M. Patel

(5) Registrar

Shri K. A. Amin continued to work as the Registrar.

(6) Librarian

Dr. L. M. Padhya worked as the Deputy Librarian till 1-7-1973 and then as Librarian from 2-7-1973.

(7) Other Officers

Name	Designation
(i) Dr. V. P. Bhatt	Dean, Medical College
(ii) Professor B. J. Sandesara	Director, Oriental Institute
(iii) Shri S. O. Shukla (upto 1-1-1974) Shri M. J. Bhatt (from 2-1-1974)	Principal, College of Indian Music, Dance and Dramatics
(iv) Shri H. C. Mehta (upto 29-5-1973) Shri L. K. Jha In-charge Principal (from 10-7-1973)	Principal, Sanskrit Mahavidyalaya
(v) Professor K. K. Thakore	Principal, Polytechnic
(vi) Shri I. A. Dave	Principal, M. K. Amin Arts and Science College and College of Commerce, Padra
(vii) Dr. B. G. Desai	Head, Preparatory Unit—Arts and Commerce
(viii) Shri C. J. Shah	Head, Preparatory Unit—Science
(ix) Shri M. M. Chokshi	Principal, University Experimental School

CHAPTER III—THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 15 members. The following persons were members of the Syndicate :

1. Shri N. K. Vakil, Vice-Chancellor
2. Professor P. J. Madan, Pro-Vice-Chancellor
3. Director of Education or his nominee
4. Professor D. M. Desai
5. Dr. S. P. Desai
6. Professor R. N. Mehta
7. Dr. C. P. Munshi
8. Shri F. H. Palejwala
9. Shri J. A. Pandya
10. Professor N. S. Pandya
11. Dr. C. B. Patel
12. Shri D. K. Patel
13. Dr. T. V. Patel
14. Shri U. M. Patel
15. Professor S. M. Sen

During the year, the Syndicate held 25 meetings in which they considered and passed resolutions on 827 items. The following statement shows the attendance of the members at the Ordinary and Special meetings of the Syndicate during the year :

Name	No. of meetings held	Class of meetings		Present	Absent
		O. Ordinary	S. Special		
Shri N. K. Vakil, Vice-Chancellor	25	O. 11	O. 10	O. 1	
		S. 14	S. 11	S. 3	
Professor P. J. Madan, Pro-Vice-Chancellor	25	O. 11	O. 10	O. 1	
		S. 14	S. 9	S. 5	
Director of Education or his nominee	25	O. 11	O. 5	O. 6	
		S. 14	S. —	S. 14	
Dr. S. P. Desai	25	O. 11	O. 9	O. 2	
		S. 14	S. 13	S. 1	
Shri F. H. Palejwala	25	O. 11	O. 11	O. —	
		S. 14	S. 12	S. 2	
Shri J. A. Pandya	25	O. 11	O. 10	O. 1	
		S. 14	S. 14	S. —	

Name	No. of meetings held	Class of meetings		Present	Absent
		O. Ordinary	S. Special		
Dr. C. B. Patel	25	O. 11 S. 14	O. 10 S. 11	O. 1 S. 3	
Shri D. K. Patel	25	O. 11 S. 14	O. 9 S. 12	O. 2 S. 2	
Dr. T. V. Patel	25	O. 11 S. 14	O. 5 S. 4	O. 6 S. 10	
Shri U. M. Patel	25	O. 11 S. 14	O. 8 S. 7	O. 3 S. 7	
Professor R. N. Mehta	25	O. 11 S. 14	O. 11 S. 12	O. — S. 2	
Professor N. S. Pandya	25	O. 11 S. 14	O. 11 S. 14	O. — S. —	
Professor D. M. Desai	25	O. 11 S. 14	O. 11 S. 13	O. — S. 1	
Dr. C. P. Munshi	25	O. 11 S. 14	O. 11 S. 13	O. — S. 1	
Professor S. M. Sen	25	O. 11 S. 14	O. 10 S. 11	O. 1 S. 3	

2. The Senate

The Senate consisted of 92 members. The changes in the membership during the year were as under:

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

(1) Dr. C. M. Patel (8) Dr. Jatinbhai V. Modi

(2) Shri Gordhandas Ranchhoddas Chokhawala (9) Shri Ashok Krishnadas

(3) Shri S. O. Shukla (10) Shri Manibhai A. Shah

(4) Shri V. L. Devkar (11) Shri H. N. Shah

(5) Shri H. J. Patel (12) Smt. Saraladevi Sarabhai

(6) Shri K. G. Badlani (13) Shri J. B. Sandil

(7) Dr. R. D. Parikh (14) Shri I. J. Patel

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

(1) Shri T. V. Vyas (4) Shri Bhupendra M. Patel

(2) Shri V. T. Motwani (5) Shri P. C. Parikh

(3) Shri K. S. Pradyuman-sinhji (6) Shri I. J. Patel

The Senate met thrice during the year on 15th April, 1973, 21st October, 1973 and 31st March, 1974. 51 members attended the meeting on 15th April, 1973, 57 on 21st October, 1973 and 53 on 31st March, 1974.

First meeting (Special) (15th April, 1973)

The following business was transacted :

The election of the Vice-Chancellor was held at this meeting.

Second meeting (21st October, 1973)

The following business was transacted :

The election of the Pro-Vice-Chancellor and one member each on the Board of Visitors for 5 institutions was held. Nine Fellows were assigned to the Faculties. Replies to questions were given. Lapsed grants amounting to Rs. 85,600/- in the Capital Budget and Supplementary grants amounting to Rs. 2,05,901/- in the Revised Budget were sanctioned. Proposals for amendment of Statute 91 and Statute 199 were considered and passed. Ordinances and Rules mentioned in Pamphlet No. 11 of Handbook Part II—1967 were passed. The Twenty-Fourth Annual Report and Twenty-Fourth Annual Accounts of the University for the year 1972-73 were passed and the excess of expenditure over the revised estimates for the year 1972-73 were also approved. The Report of the Board of Accounts for the year 1972-73 was considered and passed. The proposal for institution of Scholarships, Medals and Prizes was passed.

Third meeting (31st March, 1974)

The following business was transacted :

The election of one member each on the Board of Visitors for 4 institutions was held. One Fellow was assigned to the Faculty. Replies to questions were given. Annual Financial statement comprising the revised estimates for the year 1973-74 and the estimates for the year 1974-75 were considered and passed. Ordinances and Rules mentioned in Pamphlet No. 12 of Handbook Part III—1967 were passed. Proposals for amendment of Statute 119, Statute 129 and Statute 200 were considered and passed. The proposal for the Department of Continuing/Adult Education to be considered as a College and to be designated as Centre for Continuing/Adult Education and Community Services was considered and passed. The proposal for institution of posts for the Faculty of Technology and Engineering, Polytechnic, College of Indian Music, Dance and Dramatics and redesignation of the posts in the Faculty of Arts and the Faculty of Technology and Engineering were considered and passed. The proposal for the institution of Medals and Prizes was passed.

(8) Following persons are recommended for Ph.D. studies in the subjects related to their Post-graduate qualifications under provision of O. Ph.D. 7 :

Sr. No.	Name of the person	Name of the Examination passed with the name of the examining body	Name of the subject for which considered eligible for registration for the Ph.D. Studies in this University
(i)	Shri S. R. Yardi	M.S.W. of M. S. University of Baroda with Grade ' B ' in 1958	Ph.D. (Psychology) under Dr. N. S. Pathak
(ii)	Shri S. N. Banerjee	M.S.W. of M. S. University of Baroda with Grade ' B ' in 1960	Ph.D. (Psychology) under Dr. N. S. Pathak
(iii)	Shri Varia M. R.	Master of Veterinary Science with Pathology (Principal) and Bacteriology (Subsidiary) as subjects in May, 1968 in First Class	Ph D. (Pathology) under Dr. V. P. Vaishnav
(iv)	Smt. P. L. Srivastava	M.Sc. (Home Science Education and Extension), M. S. University of Baroda in 1965	Ph.D. (Education) under Dr. P. K. Dongre

2. Faculties

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

Sr. No.	Name of the Faculty	Date of the meeting
(1)	Arts	22-12-1973
(2)	Science	22-12-1973
(3)	Commerce	22-12-1973
(4)	Education and Psychology	22-12-1973
(5)	Medicine	(i) 4-8-1973 (ii) 20-1-1974
(6)	Technology and Engineering	23-12-1973
(7)	Fine Arts	23-12-1973
(8)	Home Science	21-9-1973
(9)	Social Work	22-12-1973
(10)	Law	30-3-1974

CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research met on 5th July, 4th October, 7th December, 1973 and 31st January, 1974. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate :

(1) Progress reports of various research schemes previously approved were considered and recommended for their continuation where necessary. A Committee was appointed with powers of the Council to consider and recommend directly to the Syndicate the various research schemes for implementation during the year 1974-75;

(2) Panels of names of referees to examine the theses of 51 students for the award of Ph.D. degree in different subjects;

(3) Recognition of 23 teachers as Post-graduate teachers for guiding students for Ph.D. degree in different subjects and for various Post-graduate courses in the Faculty of Medicine;

(4) 44th and 45th half-yearly progress of the Critical Editions of old Gujarati Texts (Prachin Gurjar Granthmala);

(5) The Central Institute of Indian Languages (established by the Ministry of Education and Social Welfare, Government of India) Manasagan-gotri, Mysore-6 was recommended for recognition as a Centre for purposes of carrying on Research Work for Ph.D. degree in Linguistics and language related to fields of Sociology, Psychology, and Anthropology under the Faculty of Arts for the benefit of eligible students of this University or persons deputed by this University;

(6) The existing O. Ph.D. 1 was amended by adding the following provision as an additional para 1 below the Note given under O. Ph.D. 1 :—

“ Membership of the Institute of Chartered Accountants of India and Fellow members of the Institute of Cost and Works Accountants of India will be also considered eligible for registration for Ph.D. degree in Accountancy and Allied subjects, provided they also possess Bachelor's Degree of any Statutory University of India or a Degree recognised as equivalent thereto. ”

(7) The Vaccine Institute, Baroda, was recommended for recognition as a Centre for purposes of carrying on research work for Ph.D. degree in Microbiology under the Faculty of Medicine, for the benefit of eligible students of this University or persons deputed by this University ;

- (1) *Faculty of Arts :*
- (i) Recommended revision in the existing syllabi etc. for the courses in Epigraphy at M.A.
Recommended that the two Optional Papers in B.A. Major English be readjusted.
 - (ii) Recommended that the proposal of Smt. Gunila Desai, Hon. Lecturer in French for instituting the Diploma in French Language course and its details regarding syllabi etc. be approved.
 - (iii) Recommended that the existing duration hours of Paper I for Diploma in German Language be raised to 3 hours.
 - (iv) Recommended that the proposal of the Head, Department of History in the matter of starting a new optional group at M.A. History and its details regarding syllabi etc. be approved.
 - (v) Recommended that the paper on ' Outlines of Religions ' be substituted for the present paper in Logic under Philosophy at F.Y.B.A. and the said new paper be taught from the academic year commencing from June, 1974.
 - (vi) Recommended that in place of Paper VI in Special Philosophical Classic at the T.Y.B.A. Examination be replaced by a paper on ' Elements of Modern Logic ' and the said paper be taught from the academic year commencing from June, 1974.
 - (vii) Recommended that Education be considered an allied subject at S.Y. and T.Y.B.A. courses.
 - (viii) Recommended that the existing ALA Rules 1949 taught at the B. Library Science class since 1957 be replaced by the A.A.C. Rules of 1967 with effect from the academic year 1974-75 commencing from June, 1974.
 - (ix) Recommended that the students offering " Mathematical Economics and Econometrics " as an optional group at M.A. (Economics) be required to offer " Classical Economics " as an alternative paper to " Quantitative Economics " and approved the syllabus etc. for the alternative paper.
 - (x) Approved the revised syllabi etc. in respect of the following courses :
 - (i) Post-Diploma (in German, (ii) M.A. Part I and Part II—Sociology, (iii) B.A. and M.A.—Indian History and Culture, (iv) S.Y.B.A. (Major) and T.Y.B.A. (Major)—Linguistics (v) S.Y.B.A. (Minor and Major), T.Y.B.A., M.A. Part I and Part II—Political Science, (vi) F.Y.B.A.—Mathematics, S.Y.B.A. (Minor)—Mathematics.

- (xi) Recommended that an optional paper entitled " Urban Geography " be introduced to the existing Paper VIII (Dissertation) prescribed for M.A. Part II and its details regarding syllabi etc. be approved.
- (2) *Science :*
- (i) Recommended that the M.Sc. (Final)—Paper III be titled as " Cell Biology and Advanced Microbiology " instead of " Advanced Bio-Chemistry " and certain topics as recommended be included in the syllabus covered under this paper.
 - (ii) Recommended that certain details as recommended be added in the (a) F.Y.B.Sc. (Subsidiary) Syllabus in Zoology and (b) S.Y.B.Sc. (Subsidiary and Principal—Zoology).
 - (iii) Recommended that the existing details regarding item No. 8 of M.Sc. (Previous) Paper II—Physiological Chemistry Part I be replaced by the details as recommended.
 - (iv) Recommended that an optional paper entitled " Urban Geography " be introduced to the existing Paper V (Dissertation) prescribed for M.Sc. (Final) and its syllabi etc. be approved.
 - (v) Recommended that the existing syllabi for the M.Sc. (Bio-Chemistry) course be reorganised and approved.
 - (vi) Recommended that the revised syllabus in Statistics for S.Y.B.Sc. (Subsidiary) be approved.
 - (vii) Recommended that the scope of the syllabi for Papers V and VI prescribed for the T.Y.B.Sc. Statistics course be approved.
- (3) *Commerce :*
- (i) Recommended that the Book entitled " Lectures on Commerce " by Shri A. G. Sandhe be included in the list of reference books.
 - (ii) Recommended that the Book entitled " Cost Accounting " received from the National Publishing House, Delhi-6 be prescribed as a recommended book for B.Com. students.
 - (iii) Recommended that the existing title of the paper " Managerial Statistics " prescribed for the M.Com. Part II be renamed as " Decision Analysis " and the existing syllabus in Statistics for the said paper be revised and approved.
 - (iv) Recommended that the proposal for introducing the M.B.A. degree course and revision of the Structure of the existing Commerce courses at the Under-graduate and Post-graduate levels at the Faculty of Commerce be accepted in principle.
 - (v) Recommended that the existing O. Com. 22 be amended as proposed.

(4) *Faculty of Education and Psychology :*

- (i) Recommended that the existing O. M.Ed. 3 be amended by adding the details of Group J Higher Education.
- (ii) Recommended that the existing schemes of papers for M.A. Part I (Psychology) and M.A. Part II (Psychology) be revised and approved.

(5) *Medicine :*

- (i) Amended the existing O.M. 4 relating to internal assessment of marks for M.B.,B.S. course.
- (ii) Recommended the details of the papers in the subjects of Medicine and Surgery of M.B.B.,S. Examination.
- (iii) Recommended that at the end of the Paediatric term at the Final M.B.,B.S. examination will be conducted by a regular examination in theory and practical, and if on this evaluation a candidate does not pass the examination, he may be asked to repeat whole or part of the term, and the test at the discretion of the teacher.
- (iv) Recommended that a New Board of Studies in Physiotherapy be constituted.
- (v) Recommended that the suggestion contained in the letter No. MCI-7(1)/72-Med/1320 of Secretary, Medical Council of India, New Delhi regarding the Medical Termination of Pregnancy Act, 1971 be accepted as it is being implemented.
- (vi) Recommended that the recommendations contained in the minutes of the meeting of the Sub-Committee held on 8th, 9th, 10th March, 1973 appointed for examining in detail the existing syllabi in various subjects of B. Physio course be accepted along with the modifications suggested by Miss S. Mann, WHO Physiotherapy Tutor in the matter.
- (vii) Recommended that the detailed draft syllabi in the subject of ' Pathological Sciences ' be approved.
- (viii) Recommended as under :—
 - (A) Students be permitted to change their registration from M.D. Medicine to M.D. allied branches and from M.S. Surgery to M.S. allied branches if they have applied for such changes within the six months from the date of their previous registration or within one academic term.
 - (B) The Dean, Medical College, Baroda be authorised to fill up vacant seats available at the various Post-graduate courses under the Faculty of Medicine either in the previous year or in the middle of the term of the academic year by admitting

new P.G. students on consideration of their individual merits if they are otherwise eligible for admission to these courses.

- (ix) Recommended that internal assessment of the candidate's class work to the extent of 30% of the total marks allotted to each subject be introduced in M.Sc. (Medical) Part I Examination of the Faculty of Medicine.

- (x) Amended the existing O.M. 7 in the matter of allowing students to pass 1st M.B.B.S. examination in five consecutive attempts instead of four as at present.

(6) *Faculty of Technology and Engineering :*

- (i) Recommended that the term work marks for the subject of Surveying III at the second semester examination of B.E. III (Civil) be increased from 25 to 50.

- (ii) Recommend that the use of IS : 456 and IS : 875 and IS : 800 be permitted as reference books at the B.E. V (Civil) 1st Semester, M.E. (Civil) Structural Engineering Part II, M.E. (Civil) other than Structures—Part II.

- (iii) Recommended that the proposal for institution of Post-graduate degree course in Industrial Metallurgy (including syllabi; scheme of examination etc.) in the Faculty of Technology and Engineering be approved academically.

- (iv) Recommended that the scheme of teaching and examination for the proposed M.E. (Chemical) course in Petro-Chemical Engineering be revised and approved.

- (v) Recommended that the Semester System for the IV Year B.Arch. course be introduced from the academic year 1974-75.

- (vi) Recommended that the proposal for increasing the number of intake of students for the Chemical Engineering course from 30 to 45 be accepted in principle.

- (vii) Recommended that the proposal for the institution of the degree course of M.Sc. (Applied Mathematics) at the Faculty of Technology and Engineering be accepted in principle.

- (viii) Recommended that the subject of Material Science be introduced in B.E. II (C.M.E.Ch.Met.) second semester.

- (ix) Recommended that the proposal made by the Principal, Polytechnic, Baroda be approved and S. 200 be amended by adding the following nomenclatures and abbreviations of the Model Diploma Courses in Petrochemical Technology, under the Heading " In the Faculty of Technology and Engineering " after serial No. 6 as serial Nos. 7, 8 and 9 :—

7. Diploma in Technology of Processing of Oil and Gas (GPO and G)
8. Diploma in Technology of Production of Synthetic Resins and Plastics (DPSR & P)
9. Diploma in Technology of Production of Fertilizers (DPF)

(x) Recommended that :—

- (a) For awarding a class at the M.E. (C.M.E.M.Text. Engg.) examinations the marks obtained at Parts II, III and IV be taken into account.
- (b) Students who fail in not more than two Heads of Passing at M.E. (C.M.E.) Part/M. Text. (Engg.) Part I examinations be permitted to join Parts II, III and IV classes of the respective courses subject to the condition that they clear the concerned Heads of Passing of the Part I either before or simultaneously with Parts II and III in which they have failed.
- (c) In view of the above recommendations the O.T.E. II-4 and O.T.E. II-6 be amended as under and be made applicable to M.Text. (Engg.) examinations also.
- (d) The above change be made effective from April, 1974 examinations.

(7) *Fine Arts :*

- (i) Recommended that the existing title of course No. 301 of First Year B.A. (Fine)/Diploma (Fine) viz. "Art of Ancient Near East" be retitled as "Near Eastern Art".
- (ii) Recommended that the course No. 313 H in respect of First Year B.A. (Fine) in Art History be made non examination subject to be cleared by one year by internal test.
- (iii) Recommended that an additional Paper "Iconography and Sources for religions and literary themes" be added to the M.A. (Fine) course in Art History under course No. 604/704 H.
- (iv) Recommended that both for M.A. (Fine) in Art Criticism and Art History, 400 marks be fixed for dissertation instead of the present 200 marks.
- (v) Recommended that for M.A. (Fine) in Art Criticism the marks for practical work be fixed at 200 marks instead of the present 400 marks.
- (vi) Recommended that the students of B.A. (Fine) in Applied Arts be permitted to choose only one of the courses No. 571, 572, 573, 574, 575 and 4 credits be assigned for the same,

- (vii) Recommended that if students considered for admission to any Post-graduate course do not have the prerequisite exposure to some of the subjects but are otherwise well qualified, they be asked to do atleast one additional year to cover relevant courses at the Under-graduate level.
 - (viii) Recommended that the Draft Programme for a course in Art Education for 5th Year B.A. (Fine) course be approved.
 - (ix) Recommended recognition of degree examinations of the Indirakala Sangit Vishwavidyalaya as equivalent to the corresponding degree examinations of this University.
 - (x) Recommended that students appearing in a particular test for admission to a higher class in the College of Indian Music, Dance and Dramatics will not be admitted to any lower class.
 - (xi) Recommended that the students who fail in the practical examination be allowed to appear as ex-students for three years only on the same lines as in theory examinations.
 - (xii) Recommended that the supplementary test examination be held for those Diploma Students who fail to appear at the annual examination on the ground of serious illness or a reason/s of a very special type.
 - (xiii) Recommended that students who have passed the Diploma in Dramatics and who intend to seek admission to 2nd Year B.Mus. (Dramatics) class be considered eligible for admission to the said class on their successfully passing the aptitude test to be conducted by the Head of the Department concerned.
 - (xiv) Recommended to the Faculties of Arts, Law and Social Work that the holders of the B.Mus. and M.Mus. Degrees in Music, Dance and Dramatics of this University be considered eligible for admission to the M.A., LL.B. and M.S.W. courses in the Faculty concerned.
 - (xv) Recommended that the present Post-graduate Diploma course in Museology be replaced by the proposed M.A. (Museology) degree course as it is more comprehensive and systematic and its details of syllabi etc. be approved.
- (8) *Faculty of Home Science :*
- (i) Recommended that a new course "Decision-making in Family Living" H.M.-472-3 credits as an elective for 4th Year B.Sc. (Home) students be approved with its details of syllabi etc.

- (ii) Recommended that a new course "Special Problems" H.M.-573-1 credit be approved at the M.Sc. (Home) Management degree course.
- (iii) Recommended that a new course "Textile Testing"—2 credits be introduced at the B.Sc. (Home)—Clothing and Textile degree course and its details be also approved.
- (iv) Recommended the revised M.Sc. (Home)—Clothing and Textiles degree course with a view to enabling the students to get more specialization in either of the two groups viz. Group I—Clothing and Group II—Textiles.
- (v) Recommended that the present Board of Studies in Clothing and Textiles and Home Management under the Faculty of Home Science be split up as under:
- (a) Board of Studies in Clothing and Textiles.
- (b) Board of Studies in Home Management.
- (vi) Recommended that the existing scheme of B.Sc. (Home) degree examination be revised and approved.
- (vii) Recommended that the title of the Post-graduate Diploma in Nursery School Education be changed to Post-graduate Diploma in Pre-School Education and approved the revised course for the said Diploma.
- (viii) Recommended introduction of the Ph.D. Programme in the subject of Home Science Education and Extension Education in Home Science.
- (ix) Recommended the proposed course of studies in "Basics of Agriculture for Extension Educators in Home Science at the M.Sc. (Home)—Home Science Education and Extension.
- (9) *Social Work* :
- (i) Recommended that possibilities of introducing the Bachelor of Social Work (B.S.W.) degree course under the Faculty of Social Work be explored and details for the same be worked out and placed before the Board for consideration.
- (ii) Recommended that the existing details of Syllabus, Bibliography etc. in the M.S.W. course be reviewed and revised if required in the light of the details to be worked out for the proposed B.S.W. course under the Faculty of Social Work.
- (iii) Recommended that the Syllabus, Bibliography etc. for the M.S.W. course for the years 1974-76 be approved without modifying the existing assignments of credits and the title of the main courses.

(10) *Law* :

- (i) Recommended that the holders of the B.Mus. or M.Mus degrees in Music, Dance and Dramatics of this University be considered eligible for admission to the 1st LL.B. course in view of the fact that the Bar Council of India has laid down in their rules that the minimum qualification for enrolment for the degree in Law must be graduation of a University.
- (ii) Recommended that the existing O.L. 1 be amended by adding the words "B.Mus./M.Mus. degree examination of this University" after the words "Home Science" occurring in line 3 of the Ordinance.

3. *Board of Studies*

There are 50 Boards of Studies in different subjects. The Boards met during the year as shown below :

<i>Sr. No.</i>	<i>Name of the Board</i>	<i>Date of the meeting</i>
(1)	Sanskrit, Pali and Prakrit Language and Literature	3-9-1973
(2)	Persian, Urdu and Other Asian Language and Literature	3-9-1973
(3)	Hindi Language and Literature	10-9-1973
(4)	Gujarati Language and Literature	6-9-1973
(5)	Marathi Language and Literature	4-9-1973
(6)	English Language and Literature	20-9-1973
(7)	Modern and Ancient European Languages and Literature	4-9-1973
(8)	Sociology	4-9-1973
(9)	History, Archaeology and Ancient Indian Culture	22-9-1973
(10)	Philosophy	5-9-1973
(11)	Linguistics	3-9-1973
(12)	Library Science	5-9-1973
(13)	Political Science	21-9-1973
(14)	Economics	8-9-1973
(15)	Physics and Meteorology	19-9-1973
(16)	Chemistry	22-9-1973
(17)	Botany	17-9-1973
(18)	Zoology	17-9-1973
(19)	Bio-Chemistry	24-9-1973
(20)	Microbiology	8-9-1973
(21)	Geology	19-9-1973

Sr. No.	Name of the Board	Date of the meeting
(22)	Mathematics	27-8-1973
(23)	Statistics and Actuarial Science	26-9-1973
(24)	Geography	17-9-1973
(25)	Education and Educational Administration	15-9-1973
(26)	Psychology	15-9-1973
(27)	Banking and Business Finance	7-9-1973
(28)	Accounts	11-9-1973
(29)	Commerce including Business Administration	1-9-1973
(30)	Co-operation	7-9-1973
(31)	Business Economics	14-9-1973
(32)	Anatomy and Physiology	7-7-1973
(33)	Pharmacology and Pathology	{ 7-7-1973 20-1-1974
(34)	Medicine, Surgery, Midwifery etc.	7-7-1973
(35)	Technology (Textile)	12-9-1973
(36)	Civil Engineering and Applied Mechanics	12-9-1973
(37)	Mechanical Engineering and Metallurgical Engineering	24-9-1973
(38)	Electrical Engineering and Electronics Engineering	12-10-1973
(39)	Chemical Engineering	13-9-1973
(40)	Architecture	12-10-1973
(41)	Metallurgical Engineering	29-9-1973
(42)	Painting, Sculpture, Applied Arts, Art History and Graphic Arts	28-9-1973
(43)	Music, Dance and Dramatics	14-9-1973
(44)	Museology	23-9-1973
(45)	Child Development	10-9-1973
(46)	Foods and Nutrition	10-9-1973
(47)	Home Science Education and Extension	10-9-1973
(48)	Clothing and Textile and Home Management	11-9-1973
(49)	Social Work	21-9-1973
(50)	Law	29-9-1973

Important recommendations made by the Boards have been included in the recommendations of the Faculties mentioned in the preceding paragraphs.

CHAPTER V—BOARDS AND COMMITTEES

General

A summary of business transacted by various Boards and Committees during the year, is given below:

1. University Board of Sports:

Three meetings of the Board of Sports were held during the year. The Board appointed (i) a Committee to select teams to represent the University Tournaments, (ii) a Committee to organise and conduct Inter-University West-Zone Cricket Tournament, (iii) the Officers-in-charge for various Games. The Board recommended (i) provision of lockers to Players/Members for different Games, (ii) amendment of ordinance regarding the payment of T.A., H.A. to the Players/Teams, (iii) a rise in pay from Rs. 75 to Rs. 150/- p.m. to Boy Peons employed for various Games in the Department, (iv) the acceptance of the Ranji Award in Cricket from the Donor and (v) the purchase of Sports equipment directly from manufacturers, wherever possible.

2. Publication Board

The Board met thrice during the year on 14th April, 2nd August, 1973 and 11th March, 1974. It considered and recommended publication of the works (i) 'Linguistic Foundations of Human Knowledge' by Shri D. D. Mahulkar, (ii) 'Some Aspects of the Historical Geography of Sura,' Research Paper VII of the Department of Geography, and (iii) 'Muqaddema-Lataif-e-Ashrafi' by Dr. S. W. Ashraf and for reprinting of the book 'Growth and Development of Maharaja Sayajirao University of Baroda' by Professor D. M. Desai and Kum. Saraswati S. Pandit.

3. Library Committee

The Committee met on 3rd October, 1973. It approved the subscription of Journals for renewal and the report of the satisfactory service rendered by the approved vendors.

4. University Building and Planning Committee :

The Committee met on 24th December, 1973 to consider the Building work to be executed in the year 1974-75 and it recommended the maintenance grant of Rs. 7,39,480/- worked out @ 2% on the Capital Value of Rs. 3,69,74,004/- of University Buildings. The break up of the amount for Ordinary, Special Repairs etc. recommended was as under :

	Rs.
(i) Ordinary Repairs @ 1%	3,69,740
(ii) Special Repairs	3,58,709
(iii) Retreating the existing Road surface by asphalt carpeting for Servants' Quarters behind Shri J. M. Hall (Rs. 10,000/-), behind the Building of Microbiology Department, Faculty of Science (Rs. 15,000) and in front of the Building of Archaeology Department, Faculty of Arts (Rs. 5000).	30,000
(iv) Reserved for any unforeseen urgent items which may be required in 1974-75.	30,000
	7,88,449

The Committee also suggested that the excess amount of Rs. 48,969/- over maintenance grant of Rs. 7,39,480/- fixed @ 2% on the Capital Value of the University Buildings be saved, in consultation with the Deans of the Faculties and Heads of the Institutions. The Committee recommended an amount of Rs. 80,000/- for providing additional Cupboards in Students' Rooms in Dr. Jivraj Mehta Hall and an amount of Rs. 30,000/- for Foundry Shed for Metallurgical Department, Faculty of Technology and Engineering.

5. Standing Committee on Equivalence of Examinations :

The Committee met on 18th June, 1973. It considered a number of items regarding equivalence of various examinations.

The important recommendations are as under :

- (1) That the following examinations conducted by the different Universities as mentioned against each be recognised as equivalent to corresponding examinations of this University on reciprocal basis :

- (a) *Board of Secondary Education, Rajasthan, Ajmer* For purposes of admission to available higher courses of studies in this University if otherwise eligible

Praveshika
Upadhyaya

S. S. C.
Preparatory Arts

Provided the students concerned have passed the S.S.C. or its equivalent examination with English as one of the subjects prior to their joining the Upadhyaya course of the above Board.

- (b) *Rashtriya Sanskrit Sansthan, Ministry of Education & Social Welfare, Government of India, New Delhi.*
Shastri Acharya Shastri Acharya
- (c) *Kurukshetra University, Kurukshetra*
Certificate Course in German Certificate Course in German
- (d) *Magadh University, Bodhagaya*
Intermediate Commerce Preparatory Commerce
- (e) *Pontifical Atheneum, Poona*
Sacred Heart College, Shenbaguna, Kodikand, Eastern Theological College, Jorbat, Assam, St. Joseph's Pontifical College and Seminar, Alwoye, Kerala Gregorian University, Rome etc.
B.Ph/B.Th. L.Ph./M.Ph. S.Y.BA. on individual merit M.A. (in their specialised subjects only) B.Ed., M.S.W. on individual Merits.
- (f) *Goeth Institute or its branches*
(Max Muller Bhavans)
Grand Stage I Diploma in German Course
(Basic Course I)
Grand Stage II Post-Diploma in German Course
(Basic Course II)
- (g) *Punjab University, Chandigarh*
Certificate Course in Russian Diploma Course in Russian Language
- (h) *Saurashtra University, Rajkot*
Bachelor of Rural Studies Degree examination. B.A. on reciprocal basis for purposes of admission to the M.S.W. degree course of this Faculty.

6. Academic Committee

The Committee could not meet during the year 1973-74, as there were no items referred to the Committee.

7. Preparatory Courses Committee

The General Education and the Preparatory Courses Committee met on (i) 18th April 1973 and (ii) on 9th March, 1974.

The Committee transacted the following business :

- (i) Recommended the setting up of a central admission Committee for deciding admission policies for the Preparatory Courses in Arts, Science and Commerce for the year 1973-74.
- (ii) Recommended appointments of Sub-Committees for the General Education Programme and Preparatory Courses in Arts, Science and Commerce upto 30th June 1975.
- (iii) Recommended text-books etc. for Section II of Paper II in Gujarati for the academic years 1973-74, 1974-75 and 1975-76.
- (iv) The Committee opined that instead of prescribing a large number of books as reading lists at the preparatory level it would be more useful if only one or two books are prescribed wherever possible. In case where this is not possible, it is recommended that a clear mention be made by reference to pages of the specific portions or parts to be made use of from each of the books included in the reading lists.
- (v) Keeping in mind the nature of the Preparatory (i. e. Pre-University) courses and considering the fact that the Preparatory courses are equated with Higher Secondary Courses and as it is not also in the interest of the students, it is recommended that status quo be maintained in the matter of granting A.T.K.T. to students who fail at the Preparatory examinations in Arts, Science and Commerce held by this University.
- (vi) Recommended revised syllabus etc. in Mathematics Paper V for Preparatory Arts and Commerce Courses.
- (vii) The recommendations relating to the Syllabi and books made by the various Preparatory Sub-Committees in their respective subjects be approved and be made effective from the academic year 1974-75.
- (viii) Students who have failed at the Preparatory examinations in Arts/Commerce and who desire to appear at subsequent examinations with change in optional subjects be not permitted to do so without keeping two terms afresh with the changed optional subjects.

8. Committee of Deans and Heads of Institutions

Thirteen meetings of the Committee of the Deans of Faculties and Heads of Institutions were held during the year. The Committee recommended the following :

- (i) Substitution of clause No. 7 and addition of clauses No. 8 and 9 on pages 283, 284 and 285 of Chapter LXIII, Constitution and Functions of the Faculty/Institution Students' Association of the University Hand-book Part II, 1967.

- (ii) Introduction of the system of requiring only Transference Certificate from the students migrating from one University to another, instead of a migration certificate.
- (iii) Appointed a Committee to consider and recommend plan of action for "Examination Reforms".
- (iv) Extension of vacation period and also the second term of 1973-74 on account of disturbance in the State and Examination Policy in respect of all examinations to be held during first half of the year 1974.

9. Finance and Establishment Standing Committee

Twelve meetings of the Committee were held during the year. The Committee considered several items concerning requests for additional establishment grants, purchase of equipments, approval of plans, estimates and tenders for construction work, contracts for various items and requests from staff members regarding study leave etc. The recommendations of the Committee were placed before the Syndicate.

The Committee met as the Budget Committee on 29th January, 1974. It submitted to the Syndicate, the revised estimates for the year 1973-74 and the estimates for the year 1974-75 after scrutinising various proposals received from Faculties, Institutions and Offices of the University.

10. Investment Committee

The Committee held seven meetings during the year. The recommendations of the Committee in the matter of investment of the University funds were approved by the Syndicate.

11. Press Supervisory Committee

Ten meetings of the Committee were held during the year. They considered monthly reports of the Press Manager regarding the work of the Press, the Stationery Unit and Publication Sales Unit and also Printing Programme and made recommendations regarding purchase of paper, stationery, equipment etc.

12. Sir Sayajirao III Memorial Research Prize Fund Committee

The Committee met on 4th January, 1974 for scrutinizing the essays on "ગુજરાતમાં પારસીઓનું આગમન અને તેમનો ગુજરાતની સંસ્કૃતિમાં ફાળો" for the year 1972-73. The prize was awarded to Dr. (Mrs.) Perin D. Driver for writing the best essay for the year 1972-73.

It was decided to invite essays on the subject "માનવ સંસ્કૃતિ અને ધર્મ" for the year 1973-74.

13. Advisory Committee for the University Health Centre

Two meetings of the Committee were held during the year.

14. Wardens' Committee :

Three meetings of the Committee were held during the year.

15. Advisory Committee for the Halls of Residence

One meeting of the Committee was held during the year.

16. Advisory Committee for NSS :

Two meetings of Advisory Committee for NSS were held during the year. It approved the report of (i) N.S.S. Activities, (ii) Scarcity of Relief Programme & Camps, (iii) Enrolment of students and Orientation Programme. It recommended, (i) to empower the Hon. Director, NSS equivalent to the Dean of the Faculty, (ii) to conduct a case study of Baroda NSS Programme in consultation with the Faculty of Social Work. The Committee appointed the Programme Co-ordinator, NSS as Secretary of the Committee.

17. Selection Committees :

During the period from 1-4-1973 to 31-3-1974, there were 14 meetings of the Selection Committees, appointed under Section 48 (2) of the Act and they recommended 16 candidates for appointment to the posts of Professors and Readers in various Faculties and Institutions of the University. There were 44 meetings of the Selection Committee for Junior Posts and 10 meetings of the Selection Committee for Class III Posts, and recommended 79 and 15 candidates respectively for appointment to different posts in the University.

18. Committee to select Wardens :

The Committee met on 7th March, 1974 and recommended a panel of 13 teachers for appointment as Wardens of various Halls of Residence for men students.

19. M. S. University Students' Aid Fund Committee

The Committee met once during the year on 5th October, 1973. The total amount of help given to students by way of tuition fees, examination fees, books, educational materials, loans etc. during the year 1973-74 was Rs. 31,274-00

20. The Central Advisory Committee for Students Affairs

The Committee met on 28th November, 1973 and recommended the following:

- (i) Providing facilities for participation in National Soccer Tournaments and issue of jerseys to Soccer and Kabbadi teams.
- (ii) Adoption of a procedure for Central Purchase of Sports goods and equipments from the Manufacturers with the University mark/ emblem embossed.
- (iii) Making necessary modifications in the existing rules for disposal of sports goods.

- (iv) Taking action for providing a more effective purification/filtration plant at the University Swimming Pool.
- (v) Lighting arrangements in front of Faculties of Science and Education and Psychology from the Library and from the Faculty of Law to the entrance gate opposite Sayaji Gung Tower
- (vi) Construction of Speed Breakers on the roads within the University Campus.
- (vii) Collection of information from some Universities in the matter of compensatory credit to students participating in Co-curricula activities—Sports and Cultural activities.

21. Board of Extra-Mural Studies

The Board recommended a programme of extension lectures by University teacher and outside experts. An amount of Rs. 11,150/- was sanctioned for the purpose.

22. Central Examination Reform Committee

The Committee met thrice during the year and made the following recommendations:

- (i) The present system of evaluation be modified at least at the post-graduate level and continuous internal evaluation be introduced. It was thought expedient to confine the reform to the post-graduate courses because the relatively small number of students at the post-graduate level would facilitate the implementation of the continuous internal evaluation through a series of tests and assignments.
- (ii) The university should plan to introduce the continuous internal evaluation at the under-graduate level. At present the number of students being disproportionately large, it may not be possible to maintain the student teacher ratio within reasonable limit. Continuous Internal Evaluation implies a considerable addition to the present teaching staff or a corresponding reduction in student enrolment.
- (iii) Each department of the University may decide whether it would like to establish the Question Bank in the department.
- (iv) A Central Co-ordinating Unit within the University with an administrative and research staff be established for reviewing the experiments conducted at various Faculties and for making suggestions for modifications and improvements in methods of evaluation.
- (v) Each Faculty or College of the University may establish its own cell for co-ordinating the evaluation programme of different departments and for maintaining records of tests and assignments.

CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

During the year under report, 112 new students (17 in Faculty of Arts, 38 in Faculty of Science, 4 in Faculty of Commerce, 45 in Faculty of Education and Psychology, 3 in Faculty of Home Science, 4 in Faculty of Medicine and 1 in Faculty of Social Work) were registered for the Ph.D. degree. The details are as under:

Name of the Scholar	Name of the Guiding Teacher	Title of the Thesis
1	2	3
Faculty of Arts		
(1) Shri Rawat Badamsingh Khodbiram	Dr. D. S. Shukla	Sathottri Hindi Kavita Vastu Aur Shilp (1960-1972).
(2) Shri K. Venkata Subrahmanyam	Professor V. N. Kothari	Economic Aspects of the Growth of Primary Education in Tamil Nadu.
(3) Shri Misra Ashokkumar Shivnarain	Dr. M. G. Gupta	Hindi Ke Prema Khyanik Kavyo (1400 A.D.-1700 A.D.) Sanskrutik Anushilam.
(4) Shri Gajab Kashyap Harshadrai	Dr. P. N. Jha	Hindi Kahani Mein Samajik Chetna (Sathottari).
(5) Shri Desai Nalinkumar Dhirajlal	Dr. R. M. Patel	Meghani: Loksahitya No Sampadak Ane Sanshodhak.
(6) Shri Hashim Syed Anis	Professor R. N. Mehta	Archaeology of Ahmedabad District.
(7) Smt. Pandya Bhakti Praful	Dr. R. M. Patel	Gujarati Dhandhadhari Rangbhumi na Geeto (1875 A.D. to 1950 A.D.).
(8) Shri Parikh Gokulbhai Ochhavlal	Professor M. B. Desai	Small Farmer and Viability—A Policy Frame.
(9) Smt. Gita Bajpai	Professor S. C. Misra	Baroda in Transition—Politics of Administration in Baroda State (1860-1884).
(10) Shri Shah Ashokkumar Kantilal	Dr. P. N. Jha	Upanayaskar Guru-Dutta Avem Anushilam.

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(11) Shri Kahar Bhagwandas Narayandas	Dr. P. N. Jha	Dharmvir Bharati Vyaktitva aur Krititva.
(12) Shri Sharma Triloki Nath Gangaprasad	Dr. D. S. Shukla	Hindi Atmakatha Sahitya Ka Alochanatmak Adhyayan
(13) Shri Yagnik Jani Himmatram Mahashanker	Shri L. K. Jha	Vedang Jyotishsya Samikshit-avruti Vivechanatmakam-Adhyayaynam cha.
(14) Shri Joshi Dilipkumar Dhirajram	Dr. R. D. Pathak	Hindi aur Gujarati Ki Rastriya Kavyadhara Ka Tulnatmak Adhyayan (1920-1947).
(15) Kum. Hazra Chitralkha	Professor A. G. Javdekar	The Probelm of Inference in the Buddhist Logic
(16) Shri Nimawat Bhagwat Ram Shrishriramji	Professor A. G. Javdekar	Truth and Error.
(17) Smt. Shukla Indu Dayashanker	Dr. P. N. Jha	Bhagvati Charan Verma Aur Unka Katha-Sahitya.
Faculty of Science		
(1) Shri Karanth Viswanatha Rama	Professor S. S. Merh	Investigations of the Gneissic Rocks Kapleshwar area in Kumaon Himalaya, with special reference to their origin and factonic setting.
(2) Shri Patel Gordhanbhai Chhaganbhai	Professor S. W. Dharmadhikari	Some Sequential and Fixed sample size Procedures.
(3) Shri Kamble Vinay Baburao	Professor S. P. Pandya	Studies in Nuclear Structure.
(4) Kumari Trivedi Mira Dhirajlal	Dr. V. P. Bhatt	Studies in Crystal Physics.
(5) Shri Thaker Bharatkumar Trikamlal	Dr. P. K. Bhattacharya	Binary and Ternary Complexes and their reactivities.
(6) Kumari Telang Shailaja Dattatraya	Dr. (Smt.) R. Rajalakshmi	Effects of Prenatal, Neonatal and Post-weaning Nutritional deficiencies on brain enzymes in rats.
(7) Shri Kamalasanan M. N.	Dr. M. M. Patel	Study of the property of some diatomic molecules.

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(8) Shri Chokshi Anil Panalal	Dr. T. J. Boman	Studies on (Vitamin 'B') complex and Liver Regeneration in Rat.
(9) Shri K. Ramakrishnan	Dr. S. K. Srivastava	Studies on Glutamic Acid Metabolism in Brain.
(10) Shri Bhandari Sneha Deep	Professor C. V. Ramakrishnan	Studies on Intestinal Enzyme.
(11) Shri Gudapaty Seshagiri Rao	Professor C. V. Ramakrishnan	Studies on Phytase.
(12) Shri Akolkar Pradip N.	Dr. L. J. Parekh	Studies on Fermentation.
(13) Shri Mammen Daniel	Dr. S. D. Sabnis	Chemotaxonomic Studies on some selected angiospermic Taxa.
(14) Shri Lulla Kamlesh Parsram	Professor C. H. Pathak	Studies on Datura with special reference to its scopalamine content.
(15) Kumari Desai Geeta Kanaiyalal	Professor S. S. Merh	Study of the Fauna of the Rocks of Wagad Hills in Eastern Kutch with special reference to its palaeo-ecological significance.
(16) Shri Dwivedi Parashar Subodhehandra	Professor S. S. Merh	Structural and Metamorphic studies of the rocks of the area to the North and North-East of Chhotaudaipur, Dist. Baroda.
(17) Shri Patel Govindbhai Bhajibhai	Dr. V. M. Shah	Fourier Analysis.
(18) Shri Patel Arvindbhai Chaturbhai	Dr. C. M. Patel	Convergence and Summability of Orthogonal Series.
(19) Shri Rao Narayana Padmanabha	Professor V. V. Modi	Some of the Enzymes involved in the ripening of Mangoes.

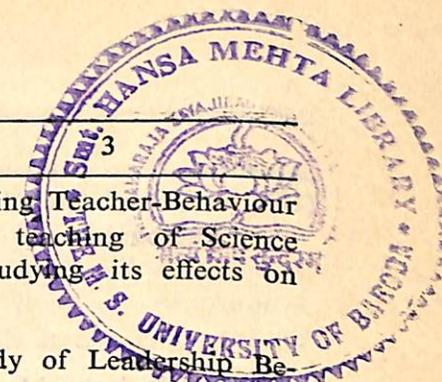
1	2	3
(20) Shri Sadani Lekhraj Kanaiyalal	Shri H. Mitra	A digital data acquisition system for Meteorological parameters for boundary layer studies.
(21) Shri Patel Hasmukhbhai Chaturbhai	Professor S. W. Dharmadhikari	Some Problems on Sampling.
(22) Shri Shah Dhirubhai Keshavlal	Dr. A. G. Pathak	Some aspects of Statistical Quality Control and Sampling.
(23) Shri Parikh Ashok Manilal	Professor (Smt.) Indira V. Bhanot	Design and Analysis of Experiments.
(24) Kumari Kishanani Kishni Tulsidas	Professor R. V. Shah	Studies on Histophysiological and Histochemical aspects of some higher vertebrates.
(25) Kumari Vyas Devhutiben Mukundray	Dr. P. M. Ambadkar	Studies on certain aspects of anatomy and physiology of some Vertebrates.
(26) Kumari Gangaramani Naina Fatehchand	Dr. P. M. Ambadkar	Studies on structural and functional aspects of certain Vertebrates.
(27) Kumari Kathuria Pratibha Devidayal	Professor R. V. Shah	Studies on Histophysiological and Histo-chemical aspects of some higher Vertebrates.
(28) Shri Jadhav Ravindra Nilkanthrao	Dr. S. J. Bedi	Ecology of the Plants growing in the vicinity of certain mineralized Zones in Gujarat State.
(29) Kumari Doraswamy Uma	Dr. P. K. Bhattacharya	Studies in some mixed ligand complexes containing B-Diketones.
(30) Shri Mohankumar V. B.	Dr. P. K. Bhattacharya	Studies in some Schiff base complexes.
(31) Shri Sanjappa Manivenkatappa	Dr. R. P. Bhatt	Koryomorphological and Cytatxomical Studies on some members of the Family Leguminosae.

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(32) Shri Ray Debabrata Radhika Ranjan	Professor S. S. Merh	Geology of the Bagh-heads of Lower Narmada Valley.
(33) Shri Panchal Jitendra-kumar Narottamdas	Dr. C. C. Shah	Studies on Bajra.
(34) Shri Shah Rajendrakumar Ratilal	Dr. A. R. Mehta	Studies on Enzymes related to Phenolic acids in Plant tissue cultures.
(35) Shri Bhatt Paresh Hariprasad	Dr. A. R. Mehta	Growth responses and metabolic changes in Cells and tissues cultured <i>in vitro</i> .
(36) Smt. Das Gupta Aparna	Dr. R. P. Bhatt	Cytological Studies of some members in the family <i>Malvaceae</i> .
(37) Shri Patel Sumanbhai Thakorbbhai	Professor R. V. Shah	Studies on certain aspects of Physiology of Vertebrates.
(38) Shri Trivedi Sudhir Babulal	Dr. V. P. Bhatt	Studies in Crystal Physics.

Faculty of Education and Psychology

(1) Shri Pandya Dalsukhbhai Gaurishanker	Professor D. M. Desai	Abilities and Potentiality of High Schools of Panchmahal District for Instructional Improvement.
(2) Shri Patel Punambhai Ambalal	Professor D. M. Desai	Study of factors affecting Growth of Secondary Education in Gujarat State during British period.
(3) Shri Kuropaty Sangeetha-rao Paulus	Dr. D. B. Desai	Study of self-Perception, Achievement Motivation and Academic Performance of the Prospective Secondary School Teacher.
(4) Smt. Parikh Vinodini Praful	Professor M. B. Buch	Reading Readiness in Gujarati Children.
(5) Shri Desai Harijai Bhikhabhai	Dr. D. B. Desai	Changing Teacher Behaviour in the Teaching of Mother-Tongue and studying its effects on pupils.

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(6) Shri Raijiwala Bhagavantlal	Dr. D. B. Desai	Changing Teacher-Behaviour in the teaching of Science and studying its effects on pupils.
(7) Shri Darji Dahyabhai Ramlal	Dr. D. B. Desai	A Study of Leadership Behaviour and its correlates in the Secondary Schools of Panchmahal District.
(8) Shri Ramaswamy Pavonasam	Dr. D. B. Desai	Teacher Behaviour and Classroom Dynamics.
(9) Shri Jayaswal Hiralal Mohanlal	Dr. B. P. Lulla	A Critical Study of Hindi Text-books of Secondary Schools in Maharashtra State.
(10) Shri Roka Shiv-Darshan Hastlal	Dr. D. B. Desai	Classroom dynamics—Study of Classroom Dynamics.
(11) Shri Jeyachandran Jeans Israel	Dr. B. P. Lulla	An Experimental—Study of the Efficiency of Programmed Filmstrips as a method of teaching History in the Secondary Schools.
(12) Smt. Dholakia Jagruti Vipul	Dr. B. K. Passi	Effect of Observers and Feedback upon changing the Classroom Behaviour of Pupil—Teachers with different levels of Creativity.
(13) Shri Malhotra Suraj-prakash Jagatram	Dr. B. K. Passi	Teacher Behaviour and its Evaluation by Peers and Students.
(14) Kum. Masudi Atiqa Bano Molvi Mohammad Yasin	Professor M. A. Quraishi	Philosophical Foundation in Islam.
(15) Shri Nayar Radha-krishnan Padmanabh Pillai	Professor M. B. Buch	Cognitive Interactions on Classroom Instruction.



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(16) Shri Patel Ambalal Desaibhai	Dr. P. K. Dongre	Developing Tools and Procedures for the Recruitment of Principals of Secondary Schools in Gujarat State.
(17) Shri Rajeeva M.	Dr. D. B. Desai	A Study of Achievement Motive, its Correlates and Performance of 9th Grade Pupils of Secondary Schools of Bangalore.
(18) Mr. Boonsong Indrawooth	Professor M. B. Buch	Non-verbal Test of Intelligence for Thai Students at the age groups: 13 to 15 years.
(19) Kumari Ivy Franklin	Professor D. M. Desai	Study of Organizational Climate, Teachers' Morale and their Impact on the Quality of Teacher Education Programme in Colleges of Education in the State of Gujarat.
(20) Kumari Kuruvilla Rajamma	Dr. M. S. Yadav	Relationship between Teacher Classroom Behaviour and Pupil's Achievement.
(21) Kumari Kerma Saroh Lyndal	Dr. D. B. Desai	A Study of Achievement Motives, fear of failure, anxiety and general concerns in Tribal and Non-Tribal College Students of Meghalaya (India).
(22) Shri Singh Tribhuvan Rajdeo Singh	Dr. B. K. Passi	Curriculum Innovations in the Preparation of Teachers.
(23) Shri Sharma Krishan-kumar Dataram	Dr. B. K. Passi	Effect of Different Techniques of Feedback upon the attainment of Teaching Skills related to Stimulus Variation among Teachers.

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(24) Mr. Panugati Chinnappa Mallappa	Professor M. A. Quraishi	An Investigation into the Causes of Backwardness in Learning Hindi by Non-Hindi Students of Andhra Pradesh at the High School Level.
(25) Shri Gupta Satpaul Daulatram	Professor D. M. Desai	Professional Preparation of Secondary School Teachers (B.Ed. Level) in Punjab—A Study in Development, Administration and Programming.
(26) Shri Govinda Rangachar	Dr. M. S. Yadav	An Experimental Study in the Use of Programmed Learning Material in Classroom.
(27) Kumari Chokshi Amita Jayendra	Dr. D. B. Desai	A Study of Pupils' Achievement Motive, its Correlates and their Achievement Related Perceptions in English Medium Schools of Gujarat in relation to their Socio-Economic Status.
(28) Shri Trivedi Indravadan Umiyashanker	Dr. M. M. Shah	Use of Branching Variety of Programmed Learning Materials in Mathematics as Diagnostic and Remedial Tools.
(29) Shri Thakkar Vithaldas Ratansinh	Professor A. S. Patel	A Study of Potential Teachers' Effectiveness, their Educational Attitudes in relation to their Survival and Job Satisfaction in the Profession.
(30) Kumari Narsian Sushila Dharmdas	Professor M. B. Buch	Innovations in Higher Education in India.
(31) Smt. Oak Suman Ramchandra	Professor M. B. Buch	Adapting Self-Instructional Material in Mathematics.

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(32) Shri Vaze Narayan Anant	Dr. B. K. Passi	Effects of Modelling and Microteaching on acquisition of certain Skills in Questioning.
(33) Shri M. Khajapeer	Professor D. M. Desai	A Study of Certain Factors associated with the success of Farmers Functional Literary Centres.
(34) Shri H. P. Saraliwala	Dr. N. S. Pathak	A Study of Leadership Pattern and Employee Adjustment in Industrial Organization.
(35) Shri Bhattacharya Shibaprasad	Professor M. B. Buch	Micro-teaching in the Training of Polytechnic Teacher.
(36) Shri Khannah Bhagwati Prasad Singh Khannah	Professor A. S. Patel	Psychological Correlates of Teaching Population Education as observed among Higher Secondary School Teachers.
(37) Kumari Daljit Kaur	Professor D. M. Desai	Inquiry into Teaching Behaviour.
(38) Kumari Malika Datta	Dr. M. M. Shah	Relationship between Pupils' Achievement and Pupil Affect Need, Teacher Warmth and Teacher Permissiveness.
(39) Shri Dhuvad Ashok-kumar Manilal	Dr. P. K. Dongre	Effectiveness of the Correlates of the School Climate on the Pupils' Scholastic Achievement of selected Secondary Schools of Rural Area of Gujarat State.
(40) Shri Pengnu Samrong Yok	Professor D. M. Desai	Role of School Principal in Supervision for Educational Change in Thailand and India—A Comparative Study.

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(41) Shri Chokshi Jayendra Surajlal	Dr. B. K. Passi	An Exploratory Study in Developing Retarding Skills.
(42) Smt. Premlata Srivastava	Dr. P. K. Dongre	A Critical Study of History Development and Progress of Home Science Education in Degree Granting Universities.
(43) Kumari M. S. Lalithamma	Professor M. B. Buch	An Inquiry into Classroom Instruction.
(44) Shri Yardi Shankar Raghunath	Dr. N. S. Pathak	A Comparative Study of Perceptions of Structure Roles and Functions of Trade Union by its Members, Office Bearers, Government Officials and Management People.
(45) Shri Banerji Shalilkumar Nripendra Nath	Dr. N. S. Pathak	An Empirical Study of Attitude Model for Analyzing Consumer Behaviour.
Faculty of Commerce		
(1) Shri Rathod Chandulal Sakarchand	Professor K. N. Naik	Urban Co-operative Role and Development in India (with reference to Gujarat).
(2) Smt. Elavia Behroz Hosi	Professor K. N. Naik	A Study of Co-operative Land Development Banking in Gujarat.
(3) Shri Hingorani Ashok Rellumal	Shri D. J. Mehta	A Study of Workers Job Design and Job Satisfaction in the Large Scale Industries in Gujarat.
(4) Shri Patel Bhupendra Shanabhai	Shri D. J. Mehta	Channels of Distribution of Pharmaceutical Companies in the State of Gujarat.
Faculty of Medicine		
(1) Smt. Ranjit Ram Singh	Dr. S. Srivivasan	Metabolism of Gycoproteins.

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(2) Shri Patel Shashikant Ramanlal	Professor O. D. Gulati	Uptake of Amines in Different Tissues of Root.
(3) Shri Nanduri Ramchandra Prabhakar	Dr. J. P. Saxena	Cardiovascular and Respiratory Changes during Urinary Bladder Distension in Dogs.
(4) Shri Mantri Balkrishna Vishvanath	Dr. P. T. Acharya	A Study of Biochemical and Histo-chemical Changes due to Antimetabolite Drugs.

Faculty of Home Science

(1) Kumari P. V. Annamma	Professor (Kumari) Justina A. Singh	Anthropometric Measurements of Thousand (1000) College Men.
(2) Kumari Kuruvilla Anna Peter	Professor (Kumari) Justina A. Singh	Development and Evaluation of a Self-instructional Programmed Course in Basic Clothing Construction at the College Level.
(3) Smt. Choksey Zenobia Nashir	Professor (Kumari) Justina A. Singh	A Study of the Anthropometric Measurements and the Dietary Food Habits of 300 Class IV Employees of M. S. University of Baroda.

Faculty of Social Work

(1) Kumari Patel Indira Muljibhai	Self	An Oriental Approach to Social Work (Social Work) —A Study of Contribution of Swami Vivekanand.
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2. Research Schemes financed by the University

Department	Research Scheme
Faculty of Arts	
Economics	Trend of Government Activity in India since Independence.

Department	Research Scheme
Faculty of Science	
Chemistry	(i) Nitrogen Mustards from 9-Chloromethyl Phenanthrene derivatives as anticancer agents. (ii) Reactivity of Co-ordinated Ligands in Metallic Complexes.
Physics	(i) Microtopography of crystal surfaces. (ii) Study of absorption and emission spectra of some diatomic molecules.
Geology	(i) Metamorphic and structural studies of the rocks laying between Balaram and Kanpura area NE of Palanpur, N. Gujarat. (ii) Paleocology in relation to the depositional environments of the Mesozonic of Kutch.
Zoology	(i) Studies in Reproductive Physiology. (ii) Experimental studies on the behaviour of the House Swift Affinis (J. F. Gray).
Faculty of Medicine	
Clinical Chemistry	Serum protein, immunoglobulins and haemoglobin studies in the Neonatal Infants.
Paediatrics	Study of Vit. A and its intermediate products in Health and Diseases.
Faculty of Technology and Engineering	
Applied Physics	Ultrasonics Velocity and Absorption in Doped Metal Crystals and Alloys.
Applied Mechanics	(i) Dynamic Response of Highway Bridges using Finite Elements. (ii) Consolidation characteristics of clays.
Civil Engineering	Mixing characteristics of Waste effluents discharged into flowing streams.
Faculty of Home Science	
Clothing and Textiles	Studies in Wash and Wear Finishes.
Child Development	A Study of the factors affecting the personality adjustment during adolescent years.

Department	Research Scheme
	Faculty of Social Work
Social Work	Library Research compilation of case records in Social Work.

3. Research Schemes sponsored by Outside Agencies

The following schemes in progress have been sponsored by the University Grants Commission, Ministries of Central Government, Departments of the Government of Gujarat and other agencies:

Department	Title	Name of the Financing Agencies
Agriculture Economics	Changing Farm Production and Organization in Developing Agriculture—A Case study of impact of development effort in agriculture in a District in Gujarat State	U.S.D.A. PL. 480
Archaeology	(i) Archaeological and anthropological co-relations of the Panchmahals	U.G.C.
	(ii) Archaeology of the Banaskantha District (N.G.)	U.G.C.
	(iii) Puranas and Archaeology of Prabhashkhand	U.G.C.
Economics	(i) Publication of abstracts of research project in Education in Indian Universities	ICSSR, New Delhi
	(ii) A study of the economic benefits of Rural Electrification in Gujarat	G.E.B., Baroda
Hindi	(i) A Critical Study of Hindi works on Alankar Shastra produced in Gujarati	U.G.C.
	(ii) A Critical Study of Hindi Epic Ram Rasamrit Sindhu and editing of its text	U.G.C.
History	19th Century Cultures in Gujarat	I.C.H.R., New Delhi

Department	Title	Name of the Financing Agencies
Political Science	Party Organisation Party Behaviour in Baroda City during 1972 in State Assembly Election	I.C.S.S.R., New Delhi
Bio-Chemistry	(i) Studies on nutritional requirement of Citrus callus cultivated in vitro	U.G.C.
	(ii) Studies on the effect of protein food in reversing brains-change in Kuashiorkar children	U.G.C.
	(iii) Feasibility of improving bread-making quality of Bajra by adding wheat Glutain	Gujarat Agricultural University
	(iv) Formation of low cost meals for post-weaning children in the age group 2-5 years and their chemical and biological evaluation	U.S.D.A. P.L. 480
	(v) Biochemical studies on Algae bacterial symbiosis in high rate oxidation ponds with varying retention periods and algae	U.S.D.A. P.L. 480
	(vi) Study of Indian formulated food from legumes and production of similar fermented foods from U.S. Soyabeans	U.S.D.A. P.L. 480
	(vii) Effect of nutritional deficiency on psychological performance and selected vegetable crops of brain bio-chemistry	U. S. Naval Research Department PL. 480
	(viii) Nutritional and physiological studies on Soyabean Hemmagglutinins to provide information basic to increasing the utilisation of Soyabeans in foods and food products	U.S.D.A. P.L. 480
Botany	(i) Micronutrient deficiencies of Sorgham in Hydroponic cultures	U.G.C.

Department	Title	Name of the Financing Agencies
	(ii) Survey of Gujarat Forests	U.S.D.A. P.L. 480
Chemistry	(i) Studies in synthesis of Furochromones	U.G.C.
	(ii) Studies with ion exchange resins	U.G.C.
	(iii) Studies in the synthesis of Oxygen hetro-cycles and electro-photric substitution in Oxygen heterio-cycles	U.G.C.
	(iv) Studies in Liquid Crystals	G.S.I.R.C.
	(v) Studies in Mesomorphic State	G.S.I.R.C.
Geology	(i) A Geomorphic analysis of drainage characteristics and development in Kosi Ramganga Basins in Kumaon Himalayas	Ministry of Defence, Government of India.
	(ii) Detailed investigations of the Betsone of the Rann of Kutch	Ministry of Defence, Government of India.
Microbiology	(i) Studies on Flavins in Bremothelium ashbyii	U.G.C.
	(ii) Studies on Post-Harvest Physiology of Mangoes	U.G.C.
	(iii) Studies on Carotene biosynthesis with emphasis on the beta factors, etc.	U.G.C.
	(iv) Fermentative production of Purines and Purine Nucleotides	U.G.C.
	(v) Genetic transformation of Rhizobia	USDA P.L. 480
	(vi) Studies on synthesis of Bio-synthesis by <i>Sclerotinia Trispora</i>	U.G.C.
Statistics	Survey of unemployment among educated persons in Broach District	Gujarat Directorate of Manpower Employment.
Zoology	Histophysiological studies on the wound healing and repairs in certain peripheral and visceral organs of diabetic animals	G.S.I.R.C.

Department	Title	Name of the Financing Agency
Faculty of Education and Psychology		
Education	Diffusion of innovations in Education in India	U.G.C.
Educational Administration	A critical evaluation of Teacher Education Programme at the secondary stage in India	U.G.C.
Faculty of Technology and Engineering		
Applied Chemistry	(i) Semi-conducting materials	U.G.C.
	(ii) Studies in Mesomorphic State	C.S.I.R.
	(iii) Mixed Mesomorphic molts and Chemical structures	G.S.I.R.C.
Applied Physics	(i) Optical properties of alkali halides dopped with divalent impurities	U.G.C.
	(ii) Ultrasonic studies on Singh crystals of metals and plastics	U.G.C.
	(iii) Optical and related properties of Luminiscent materials	C.S.I.R.
	(iv) Study of Ultrasonic velocity absorption in single metal crystals and Metal organic crystals	Department of Atomic Energy, Government of India.
Faculty of Home Science		
Child Development	(i) Influence of Supplies Pre-School children	U.G.C.
	(ii) Administrative growth of Indian Children	U.S., Department of Health Education P.L. 480
Home	Housing values and satisfactions of Home Workers in Baroda City	U.G.C.
Medical College		
Pharmacology	(i) Uptake of amines in different tissues of Goat	C.S.I.R.
	(ii) Uptake of Noradranaline by Tissue	C.S.I.R.

Department	Title	Name of the Financing Agency
Gynaecology	(i) Induction of Labour, Evaluation of different Methods	Government of Gujarat.
	(ii) Immediate and delayed post-operative complications of hysterectomy (Vaginal and abdominal)	Government of Gujarat.
Biochemistry	(i) Studies on Lysosomal Enzymes and their action on Cytoplasmic substances	I.C.M.R.
	(ii) Blood group substances of gastric secretion in health and disease	I.C.M.R.
Psychiatry	Psychological complication associated with sterilisation	U.G.C.

CHAPTER VII—VISITING LECTURERS

1. Lectures

The following lectures were arranged under the auspices of the University Grants Commission Scheme of Exchange of Teachers and Extra Mural Grant and other schemes of the University.

(A) Lectures under University Grants Commission Scheme of Exchange of Teachers:

Sr.No.	Name of the Lecturer	Date	Subject
Faculty of Arts			
(1)	Professor A. C. Herberga	19-7-1973	Problem of Unemployment in India
(2)	Dr. S. B. Deo	22-9-1973	Archaeology
(3)	Dr. Satish K. Arora	28-2-1974	Comparative Developmental Politics
Faculty of Science			
(4)	Dr. D. O. Shah	17-10-1973 18-10-1973	Bio-Chemical Bio-Physical and Surface Chemical Aspects of Cell Membrane
(5)	Dr. H. C. Srivastava	29-8-1973	Chemistry of Carbohydrates
(6)	Dr. S. A. Vasavada	22-12-1973	Diabetes
(7)	Dr. V. J. Amin	22-12-1973 22-12-1973 26-12-1973	Agitation and Aeration Scale up Man Transfer in Fermentation Processes
(8)	Professor H. R. Cama	18-12-1973	Recent Advances in Chemistry and Bio-chemistry of Carotenoids and Vitamins A1 and A2
Faculty of Technology and Engineering			
(9)	Professor P. V. Indiresan	2-1-1974	Radar Signal Detection

Sr.No.	Name of the Lecturer	Date	Subject
Faculty of Fine Arts			
(10)	Shri Satish Bahadur	4-2-1974	Film Appreciation
		5-2-1974	
		6-2-1974	
Faculty of Home Science			
(11)	Shri U. H. Raj	11-10-1973	Applied Nutrition Programme in Gujarat
(12)	Dr. (Smt.) Promila Kapoor	14-12-1973	Changing attitudes towards Marriage in India
		15-12-1973	Marriage and the Working Women in India
(13)	Dr. A. K. Sen	16-10-1973	Prachin Tal Paddhati
		17-10-1973	
(14)	Dr. N. A. Jairajbhoy	12-12-1973	Indian Music and West
(B) Lectures delivered under the Extra Mural Grant and other Schemes:			
Faculty of Arts			
(1)	Professor Wilson Schmiot	16-8-1973	External Debt of the Less Developed Countries
(2)	Professor P. N. Mathur	25-8-1973	Approach to Planning
(3)	Professor R. Bharadwaj	25-8-1973	Planning Techniques
(4)	Professor Y. K. Alagh	25-8-1973	Fifth Plan Frame
(5)	Professor V. S. Vyas	5-9-1973	Food Policy in India
(6)	Professor P. R. Brahmananda	3-10-1973	Stagflation in Indian Economy
(7)	Professor Amrita Das	8-10-1973	Growth Models and Poverty
(8)	Dr. (Mrs.) B. Allchin	8-12-1973	Archaeology
Faculty of Science			
(9)	Dr. M. K. C. Sridhar	28-6-1973	Current Trends on Waste Treatment
(10)	Kumari Abbasi K.	24-7-1973	Studies on Immunology
(11)	Shri Narayan	18-8-1973	Foods and Drinks in Ancient India

Sr.No.	Name of the Lecturer	Date	Subject
(12)	Professor J. J. Ghosh	20-8-1973	Neurotransmitters
(13)	Dr. R. M. Patel	25-8-1973	Natural and Artificial Fertilizers
(14)	Dr. A. P. Nandi	13-11-1973	Nucleic Acid
(15)	Professor (Smt.) Kamala Sohoni	12-10-1973	Food Adulterations
(16)	Dr. G. B. Nadkarni	11-1-1974	Regulation of Bacterial Metabolism
(17)	Dr. M. D. Karkhanawala	22-9-1973	Role of Chemistry in the Atomic Energy Programme
(18)	Shri K. S. Bimbhat	4-10-1973	Heavy Water with Special Reference to the Baroda Heavy Water Project
(19)	Professor B. G. Deshpande	19-9-1973	Indian Ocean
(20)	Dr. J. D. Jansari	25-9-1973	Managerial Statistics
(21)	Dr. Bhatnager	17-8-1973	Stars above us
(22)	Dr. V. L. Patel	14-12-1973	Solar Plasma Interaction with Planet Venus
(23)	Professor C. C. Patel	1-9-1973	Flexidentate Co-ordination
(24)	Dr. G. W. Gray	10-12-1973	(i) Organic Chemistry of Liquid Crystals
		11-12-1973	(ii) Some Applications of Liquid Crystals
Faculty of Education and Psychology			
(25)	Dr. (Smt.) Indu Dave	1-12-1973	Developmental Role of Counselling Psychology in Human Life
(26)	Dr. C. K. Basu	12-12-1973	Recent Trends in the Technology of Teaching
(27)	Shri S. P. Gupta	29-12-1973	The Role of a Teacher in a Changing Society
Faculty of Technology and Engineering			
(28)	Dr. D. O. Shah	17-9-1973	Some aspects of Bio-Engineering
		15-10-1973	Mass Transfer at Interface

Sr. No.	Name of the Lecturer	Date	Subject
(29)	Shri R. S. Poredi	11-10-1973	Planning of Cold Storage Building
		12-10-1973	Planning of Educational Institutions
		13-10-1973	Students and the Architectural Profession
(30)	Shri Homi H. Dallas	9-1-1974	Students and Education
(31)	Sarvashri Y. M. Mehta and G. P. Shah	2-8-1973	How Baroda Management Association can help the students
(32)	Shri D. R. Bhise	8-9-1973	Water works maintenance problems with special reference to Bombay
(33)	Dr. A. C. Pandya	5-10-1973	Micro-organism in Water Supply
(34)	Shri Jayendra Shah	5 10-1973	Role of Engineers in Community Development Projects

Faculty of Fine Arts

(35)	Shri Vinayak Pandya	15-9-1973	Book Design with special reference to Children's books
(36)	Shri T. J. Mistry	16-10-1973	Demonstration in Traditional Wood Carving
(37)	Shri Kailash Takle	30-11-1973 1-12-1973	Screen Printing
(38)	Shri Kishore Parekh	10-12-1973 11-12-1973	On Professional Photography with slide show of his work

Faculty of Home Science

(39)	Shri V. L. Devkar	4-10-1973	Birds of Baroda and their importance in the economy in nature
(40)	Smt. N. Nadvi	29-12-1973	Japanese Flower arrangement Lecture-cum-Demonstration

Sr. No.	Name of the Lecturer	Date	Subject
Faculty of Law			
(41)	Justice T. U. Mehta	5-8-1973	Laws of Taxation
		23-9-1973	Principles of Taxation (Meaning of Income)
		14-10-1973	Partnership and Taxation
(42)	Shri H. M. Jhala	29-9-1973 28-3-1974 29-3-1974 30-3-1974	Some Aspects of Company Taxation
College of Indian Music, Dance and Dramatics			
(43)	Kum. Alka Deo	6-12-1973	Lecture Demonstration on Vocal Music
(44)	Shri Rajabhau Deo	7-12-1973	Lecture Demonstration on Vocal Music
(45)	Shri Harkant Shukla	15-12-1973	Development of Shastriya Sangeet in Gujarat
(46)	Pt. Vishnudev Shastri	15-12-1973	Sangeet Sadhana in Shamveda

Class	Men	Women	Total
(1) Certificate Course in German	231	18	249
(2) Certificate Course in Russian	15	—	15
(3) Certificate Course in French	69	20	89
(4) Diploma in Russian	232	28	260
(5) Advance Course in Russian	—	1	1
(6) Advance Course in Russian	1	—	1
(7) Diploma in German	36	6	44
(8) Advance Course in German	2	1	3
Total:	468	10	478

CHAPTER VIII—FACULTY OF ARTS

1. Some New Experiments

A new group : Medieval India, 4 Paper Group, with emphasis on Archaeology and Field Work, a new paper 'Historical Thought' for Group B/3 and Group B/2 and a modified paper 'Modern India : History of U.S.A.' 1860-1960, were introduced at M.A.

2. Courses of Studies

The Faculty provides the following courses :

- | | |
|---------------------------------|--|
| (1) B.A., M.A. and Ph.D. | Archaeology and Ancient Indian Culture, Economics, English, Gujarati, Hindi History, Linguistics, Marathi, Philosophy, Political Science, Psychology, Sanskrit and Sociology |
| (2) B.A. and M.A. | Pali and Persian |
| (3) B.A. (Sub.) and M.A. (Sub.) | Pali, Prakrit and Urdu |
| (4) B.A. (Major) | Mathematics |
| (5) B.A. (Sub.) | Education, Mathematics and Statistics |
| (6) B.Lib. Science | Library Science |
| (7) Diploma | German and Russian Languages |
| (8) Certificate Courses | French, German and Russian Languages |

3. Number of Students

The number of students enrolled in various classes during the year 1973-74 was as under :

Class	Men	Women	Total
(1) Certificate Course in German	251	28	279
(2) Certificate Course in Russian	15	—	15
(3) Certificate Course in French	69	30	99
Total :	335	58	393
(4) Diploma in Russian	4	1	5
(5) Advance Course in Russian	1	—	1
(6) Diploma in German	36	8	44
(7) Advanced Course in German	5	1	6
Total :	46	10	56

(8) F.Y.B.A.	427	356	783
(9) S.Y.B.A.	306	277	583
(10) T.Y.B.A.	233	211	444
(11) Library Science Degree	7	24	31
Total :	973	868	1841
(12) M.A.—Part I	137	107	244
(13) M.A.—Part II	73	62	135
Total :	210	169	179
(14) Ph.D.	12	3	15
Grand Total :	1,576	1,108	2,684

4. Staff

(a) Present Position :

During the year, the staff consisted of 11 Professors (three of whom are in Senior, scale), 21 Readers, 62 Lecturers, 2 Assistant Lecturers, 4 Part-time Lecturers, 20 Class III staff including Technicians and 22 Class IV employees. The teachers of the Faculty carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in courses.

(b) New Appointments :

- (1) Shri M. H. Siddiqui, Lecturer in Persian.
- (2) Kum. A. S. Contractor, Lecturer in Sociology.
- (3) Dr. (Smt.) Savita A. Jha, Lecturer in Sociology.

(c) Teachers upgraded to higher positions:

Name	Designation
(1) Shri R. K. Raval	Lecturer in English appointed as Reader in English
(2) Dr. S. H. Joshi	Lecturer in Gujarati appointed as Reader in Gujarati
(3) Kumari S. S. Joshi and	Assistant Lecturers in History appointed as Lecturers in History
(4) Shri R. J. Shah	
(5) Smt. B. N. Parikh	Assistant Lecturers in English appointed as Lecturers in English
(6) Kumari G. M. Miranda	
(7) Shri U. M. Nanavaty	

(d) Teachers who left

- (1) Dr. R. D. Parikh Lecturer in Sociology For better prospect

5. Professional Growth of the Staff

(a) Publication of articles/papers:

Name	Title of Article or Paper	Name of the Journal wherein published
(1) Professor R. N. Mehta	(i) ઇતિહાસનું ક્ષેત્ર અને પ્રકૃતિ	ગુજરાત ઇતિહાસ પરિષદ, સાતમું અધિવેશન, ભૂજ
	(ii) દુષ્કાળનિવારણ અને તેના ઉપાયો	હિન્દુ મિલન મંદિર, સુરત
	(iii) Baroda	All-India Inter-University Tournament, West Zone, Baria Trophy—Souvenir
	(iv) SILI—A Mediaeval Habitation	Journal of the Oriental Institute, Vol. XXII, No. 3.
	(v) Botanical Identification of Charcoal from Nagara	Current Science, Vol. 43 No. 2, January, 1974
	(vi) હરપ્પા સંસ્કૃતિના સંશોધનની અદ્યતન પરિસ્થિતિ	ગુજરાત વિદ્યાપીઠ, અમદાવાદ
(2) Dr. K.T.M. Hegde	(i) Environment of early man in Gujarat—Some recent observations	Radiocarbon and Indian Archaeology, published by Tata Institute of Fundamental Research, Bombay, April, 1973
	(ii) A model for understanding Ancient Indian Iron Metallurgy	'Man'—Journal of the Royal Anthropological Institute, London, Vol. 8, No. 3, September, 1973
	(iii) Radiocarbon Dates of the Buried Soil in the Lower Narmada Valley	Current Science, Bangalore, Vol. 47, No. 17, September, 1973
	(iv) The Former Extensions of the Great Indian Sand Desert	The Geographical Journal, London, Vol. 139, Part II, June, 1973

Name	Title of Article or Paper	Name of the Journal wherein published
(3) Prof. A. N. Jani	(i) On the Matra and mode of recitation of an independant Svarita	Charudeva Shastri Felicitation Volume, Delhi
	(ii) Poem in Sanskrit on 'Guru'	Surbharati, 1973
	(iii) Bhishma Stuti—a critical appreciation	Santram Mandir, Nadiad
(4) Dr. S. G. Kantawala	(i) Puranic etymologies on the vocable Purana	Indological Studies, Delhi University, Vol. II, No. 1
	(ii) The pupil, the embryo	Charudeva Shastri Felicitation Volume, Delhi
	(iii) વિક્રમોર્વશીયે વૈજયન્તિકા-પ્રસંગ વિમર્શક	Surbharati, 1973.
(5) Dr. K. N. Reddy	(i) A Case Study for the Abolition of Octroi in Gujarat	M. S. University Journal, July, 1971
	(ii) Centre-State Financial Relations in India: Rapporteurs Report	Indian Economic Association, Conference Number, December, 1972
(6) Dr. M. M. Dadi	(i) Inter-Relation of State Income Industrial Structure and Labour Participation Ratio	Indian Journal of Industrial Relations, April, 1973
	(i) Labour's Share in Industry: Theory and Fact	Indian Economic Journal, January-March, 1973
(7) Dr. M. M. Dadi (Jointly with Dr. B. B. Patel)	Structure of Industrial Wages in Gujarat	M. S. University Journal, July, 1971
(8) Shri N. M. Pandya	Changes in the Industrial Structure of Gujarat	M. S. University Journal, July, 1971

Name	Title of Article or Paper	Name of the Journal wherein published
(9) Smt. M. N. Shah (Jointly with Kum. S. S. Kanetkar)	Changes in the Location Pattern of Industries in Gujarat	M. S. University Journal, July, 1971
(10) Professor R. N. Metha	Chapter on American Literature, Volume 13 of Gnana Gangotri	Sardar Patel University, Vallabh-Vidyanagar
(11) Prof. J. Birje Patil	(i) The Sound of Incense Review of two recent books on Ezra Pound (ii) Translation of Ravji Patel's Poem 'There'	Quest, March-April, 1974, Bombay Indian Writing in English Penguin Paperback, London
(12) Dr. R. M. Patel	सिध्दलक्ष्मी चरित्र	स्वाध्याय, मे, १९७३
(13) Dr. S. H. Joshi	(i) Post-Independence Development of Gujarati Literature (ii) तंत्र अने ज्ञानमागील धारा (iii) संतमत अने ज्ञानमागील धारा (iv) कुशलेन : नवलिका :	Indian Literature (Sahitya Academy) January, 1974 ज्ञानस नैमासिक डिसेम्बर, १९७३ Penguin Anthology of Modern Indian Literature, London, December, 1973 बुद्धिमकाश, अप्रिल, १९७३
(14) Shri M. M. Desai	(i) वासवदत्ता पद्यरूपक (ii) शुक्ररातना तरवचितक श्री नर्मदाशंकर मंडेता	स्वाध्याय, इधुआरी, १९७४.
(15) Dr. M. Gupta	(i) The Message of the Master (ii) बुद्धी का समाज दर्शन (iii) रामचरित मानस में भारतीय संस्कृति का चित्रण	M. S. University Journal, April, 1973 मानस चतुःशती विशेषांक समिति, कानपुर, दिसम्बर, १९७३ संभावना-शोध त्रैमासिक, कुरुक्षेत्र युनिवर्सिटी, जनवरी, १९७४

Name	Title of Article or Paper	Name of the Journal wherein published
(16) Dr. B. D. Sharma	(iii) मध्यकालीन संस्कृति और कबीर (i) मानवी के पुराने पत्र (ii) मालवी का भाषा वैज्ञानिक अध्ययन	Kabir Vidyapeeth Research Journal, October, 1973 वीणा, मासिक, जून, १९७३ वीणा, मासिक, दिसम्बर, १९७३
(17) Professor S. C. Misra	Sardar in Retrospect	M. S. University Journal, 1973
(18) Dr. V. K. Chavda	(i) Shivaji in Gujarati Literature	Tricentenary Commemoration Volume of Shivaji's Coronation
(19) Shri D. D. Mahulkar	Stream of Consciousness and Language	Encyclopedia of Literature (Marathi)
(20) Professor A. G. Javadekar	(i) Epistemological Approach to the Existence of God (ii) Some Reflections on Human Knowledge	Pathway of God, Belgium, November, 1973 'Sabarmati', Ahmedabad, December, 1973
(21) Professor A. P. Rana	Nonalignment-Revisited	The Round Table Special Republic Day Issue, 26th January, 1974
(22) Professor K. C. Panchanadikar	(i) Theory of systematic structure and change in modern Sociology (ii) Neo-Evolutionary Theory of Religion and Orthodox Synthesis in India	M. S. University Journal, Social Science, Vol. XX. No. 2, July, 1973 M. S. University Journal, Humanities, Vol. XX-XXI, January, 1974
(23) Dr. (Smt.) J. M. Panchandikar	Some theoretical aspects of Untouchability, an analytical note	Report on removal on Untouchability in Gujarat, efforts and achievement; Gujarat University, Ahmedabad
(24) Dr. L. M. Padhya	Systematic use of Library	Emester (M. S. University), 1973

(b) Publication of Books/Brochures.

Name of the Teacher	Title of the Book	Name of the Publisher with the month of publication
(1) Professor S. C. Misra	Qissa-i-Ghamghin 18th Century History of Broach in Urdu Verses	M. S. University of Baroda
(2) Dr. V. K. Chavda	(i) Selected Bibliography of Gujarat (ii) Sayajirao III : A Biography	M. S. University of Baroda National Book Trust, New Delhi, 1973
(3) Prof. (Smt.) V. A. Janaki	Kandla—The North Western Gateway of India	8th Monograph of the Geography Department, M. S. University of Baroda
(4) Professor A. N. Jani	(i) Saptashati edited with Gujarati Translation, Notes etc. (ii) Kalika Purana text with Gujarati Translation and Introduction	Self Self
(5) Dr. M. Dadi	Income share of Factory Labour in India	Shri Ram Centre, New Delhi, 1973
(6) Dr. M. M. Dadi and Dr. S. R. Hashim	Capital Output relations in Indian Manufacturing 1946-1964	M. S. University, Economic Series No. 2, 1973

(c) Papers presented at Seminars/Conferences etc.

Name	Name of the Conference and Seminar	Title of the paper presented
(1) Prof. R. N. Mehta	(i) Conducted a Seminar on History at Saurashtra University (ii) Presidential Address at the Gujarat Itihas Parishad	— —
(1a) Prof. V. N. Kothari	(i) Seminar on Economics of Education at Madras, 27th & 28th August, 1973	Cost Benefit Analysis in Education

Name	Name of the Conference and Seminar	Title of the paper presented
(2) Dr. M. M. Dadi	(ii) Seminar at the Department of Economics, Bombay University, 11th and 12th March, 1974 (i) Study Seminar on Public Policy and Income Distribution at University of Sussex, May, 1973 (ii) 13th Indian Econometric Conference, Ahmedabad, January, 1974	Wage Movement in India, 1950-65 Variations in income levels in India: an Inter-regional analysis Wage share in organised manufacturing industries cross-section and time series analysis
(3) Dr. M. M. Dadi and Dr. S. R. Hashim	4th Input-Output Seminar, Baroda, August, 1973	Leontif capital output ratios for large scale manufacturing Industries, 1963
(4) Dr. S. R. Hashim (with Prof. P. N. Mathur)	Regional Science Conference, London, August, 1973	Inter-regional models for Economic Development
(5) Dr. S. R. Hashim	4th Input-Output Seminar, Baroda August, 1973	A regional model for South Asia
(6) Dr. B. H. Dholakia	5th Gujarat Economic Conference, Surat, December, 1973	The interest elasticity of demand for cash and the relationship between income velocity and the rate of interest
(7) Shri D. D. Mahulkar	Seminar on Speech and Hearing, Aligarh	Algebraic Linguistics
(8) Prof. A. G. Javadekar	(i) Seminar at the Centre of Advanced Studies in Philosophy, Benaras Hindu University, Varanasi, 15th to 17th November, 1973 (ii) Indian Philosophical Congress, Simla, October, 1973	The nature and function of Reason

Name	Name of the Conference and Seminar	Title of the paper presented
(9) Professor A. P. Rana	Changing Perspectives on International Affairs, IC-WA, New Delhi 17th November, 1973	The changing capability of non-alignment
(10) Dr. Thomas Panthom	Seminar on Career Biographies of Middle Rank Politicians, University of London, 25th November, 1973.	The social basis of Party Recruitment; A Study of Party Organizational activities in an Indian City
(11) Professor A. N. Jani	29th International Congress of Orientalists at Paris, 16th to 23rd July, 1973	—
(12) Dr. S. K. Desai	Indian Congress of American History IX Session at Mysore, May, 1973	—
(13) Dr. V. K. Chavda	11th Annual Conference, Institution of Historical Studies, Calcutta, October, 1973	—
(14) Prof. S. C. Misra	Indian History Congress, Chandigarh, December, 1973	—
(15) Shri V. H. Sonawane	VII Session, Indian Archaeological Society, New Delhi, December, 1973	—

(d) Talks

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(1) Professor J. Birje Patel	(i) USEFI Seminar on T.S. Eliot, at Madras, May, 1973	(a) Myth and Symbol in the Poetry of T.S. Eliot
	(ii) Intensive Course for College teachers in American Literature, USEFI, Nagpur, June, 1973	(b) T.S. Eliot as Critic (a) Modern American Poetry (b) Modern American Drama

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
	(iii) Department of English, Usmania University, Hyderabad, July, 1973	Spatial form in Marlowe's Dr. Faustus
	(iv) Department of English, Nizam College, Hyderabad, July, 1973	Modern English Drama
	(v) Central Institute of English, Hyderabad, July, 1973	Shakespeare's King Lear and the Theatre of the Absurd
	(vi) USIS Seminar on Modern American Fiction, Bombay January, 1974	The novels of James Baldwin
	(vii) Department of English, Bombay University, January, 1974	(a) Jacobean Drama (b) Shakespeare and Jacobean Drama (c) T. S. Eliot, The Waste Land (d) T. S. Eliot's idea of Tradition
	(viii) USIS Seminar on the Black Revolution in America, Bombay, February, 1974	Ralph Ellison's The Invisible Man
(2) Professor R. N. Mehta	(i) Museology Department	Monuments and Museum
	(ii) Baroda Museum and Picture Gallery	(a) Archaeology and Museum (b) Champaner
(3) Dr. K.T.M. Hegde	(i) Cambridge University	Ancient Indian Technology
	(ii) Poona University	Calicha-chronological and environmental tool in quarternary studies of Western India

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(4) Professor A. N. Jani	(i) University of Freiburg, Germany (ii) Kamini Arts College, Amreli	Naishadhiya-charitam—An Introduction (a) Uttararama Charitam (b) Dhvenye-Loka
(5) Dr. S. G. Kantawala	M.K. Arts College, Surendranagar	Bhavbhuti
(6) Prof. V. N. Kothari	(i) M.T.B. College, Surat (ii) Anand Arts College, Anand (iii) Saurashtra University, Rajkot (iv) Smt. J. P. Shroff Arts College, Bular (v) Planning Forums of Colleges and Economic Society, Bhavnagar	The Fifth Five Year Plan The Green Revolution in India (a) Indian Economic Development and Planning (b) Lewis Growth Model The Fifth Five Year Plan (a) Our present Economic Crisis (b) Monetary Policy—Problems of Planning and Development in India.
(7) Dr. B. B. Patel	Navjivan Arts and Commerce College, Dohad	National Wage Policy—Some Issues
(8) Dr. S. H. Joshi	Bharatiya Vidya Bhavan, Bombay	The present cultural crisis and literature
(9) Shri M. M. Desai	૧ શ્રેયસ્સાધક વર્ગ, વડોદરા ૧૫-૭-૧૯૭૩ ૨ પ્રેમાનંદ સાહિત્ય-સભા, વડોદરા ૨૬-૮-૧૯૭૩ ૩ સ્વાધ્યાય મંડળ, વડોદરા ૨૩-૧૧-૧૯૭૩	સ્મૃતિ અને વિસ્મૃતિ ઉશનસની કવિતા ચિદાનંદની કવિપ્રતિભા

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(10) Dr. M. G. Gupta	Gujarat Vidyapeeth, Ahmedabad	हिन्दी की सांस्कृतिक परंपरा
(11) Shri D. D. Mahulkar	Gujarat University, Ahmedabad	Lexicography—Mathematical Linguistics
(12) Smt. B. V. Modi	Gujarat University, Ahmedabad	Dialects
(13) Professor A. G. Javadeker	Gujarat University, Ahmedabad	Some Reflections on Human knowledge
(14) Professor A. P. Rana	Gujarat University, Ahmedabad	Indian Foreign Policy : A critique of contemporary Trends
(15) Dr. (Smt.) J. M. Panchanadikar	South Gujarat University, Surat	On Max Weber
(1) Professor R. N. Mehta	(i) USIS Seminar on Modern American Literature at Bombay, 17th to 19th January, 1974 (ii) USEFI Seminar on the Black Experience in America at Hyderabad, 7th to 9th February, 1974	As a participant
(2) Professor R. N. Mehta	(i) Seminar on History, Saurashtra University (ii) Gujarat Itihas Parishad, Bhuj	Conducted the Seminar Delivered the Presidential address
(3) Professor S. C. Misra	Seminar on Development of Teaching History in Schools since Independence, New Delhi, 22nd to 28th March, 1974	Participated as Guide and Faculty member

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(4) Professor A. G. Javadekar	18th Session of Akhil Bharatiya Darshan Parishad at Ahmedabad, 17th to 30th December, 1973.	Delivered the Presidential address
(5) Professor V. N. Kothari	(i) Conference of Research Workers at Ahmedabad, 16th December, 1973	As an invitee
	(ii) Dr. (Mrs.) Margaret Meads Workshop at S.N.D.T. University, Bombay, 17th November, 1973	As an invitee
	(iii) Seminar on 'Unprotected and Unorganised Labour' at Baroda, April, 1973	As Chairman of the second session
	(iv) Seminar on Economics of Education at Madras, 27th and 28th August, 1973	Inaugurated the Business Session
	(v) Panel for Education Constituted under Gujarat State Planning Board	As a member
(6) Dr. K. N. Reddy	(i) Panel for Financial Resources constituted under Gujarat State Planning Board	As a member
	(ii) Seminar given by Prof. John Robins at Poona, 10th to 16th January, 1974	As a participant
(7) Dr. B. B. Patel	(i) Training Programme for College and University teacher's at Bombay, 15th to 20th October, 1973	As a Rapporteur for one of the Discussion Sessions

Name of Teacher 1	University/Institution 2	Subject of the Lecture 3
	(ii) Zonal Seminar on National Wage Policy Bombay, 6th to 8th December, 1973	As a Rapporteur for one of the Discussion Sessions
(8) Shri N. M. Pandya	Seminar on Unprotected and Unorganised Labour, at Baroda in April, 1973	As a Rapporteur for one of the Discussion Sessions
(9) Dr. S. H. Joshi	Seminar on 'शुद्धी' at Bombay, 26th and 27th December, 1973	Conducted the Seminar
(10) Professor K. C. Panchanadikar	(i) Area Study Centre of UNESCO at Mexico University	As a visiting Professor and to organise the India Study Section. Deputed by the Indian Council of Cultural Relations for a period of 2 years from 4-1-1974
	(ii) Dr. (Mrs.) Margaret Mead's Workshop at Bombay, 16th and 17th November, 1973	As a participant
	(iii) Indian Journal of Sociology, New Delhi	As a member on the panel of Regional Experts
	(iv) Journal of the M. S. University of Baroda, Social Science Number	Member of the Editorial Board for 1973-1975
(11) Dr. (Smt.) J. M. Panchanadikar	Dr. (Mrs.) Margaret Mead's Workshop at Bombay, 16th and 17th November, 1973	As a participant
(12) Prof. A. N. Jani	(i) Committee to inspect the Indological Research Institute, Dwarka Invitation Extended by the Saurashtra University.	As an Expert

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(ii) Invited by the Alexander Von Humboldt Foundation Germany		To establish new contacts with the Professors of Indology in German Universities (12th May to 15th July, 1973)

(f) Research Work :

- (1) Dr. K.T.M. Hegde Radio Carbon dating of the Caiche nodules in the burried soil exposed in the River Valleys of Gujarat
- (2) Staff of the Sanskrit Department (i) Rudrata—his original contribution to Sanskrit Poetics
(ii) Nine Rasas
The Theory of Semi sentences
- (3) Shri D. D. Mahulkar
- (4) Prof. A. P. Rana A Frame work for the analysis of Indian Foreign Policy—Strategy in the Nehru Period
- (5) Prof. S. C. Misra (i) Indigenisation in Indian History
(ii) Indigenisation and Islamization in Indian History
(iii) Social Mobility in Pre-Mughal India
- (6) Dr. V. K. Chavda Dictionary of National Biography
- (g) Research work in progress :
- (1) Dr. K.T.M. Hegde (i) Analysis of pigment material on the Harrappan and Chalcolithic pottery
(ii) Study of the weathering process of the black cotton soil
- (2) Prof. A. N. Jani (i) Dattatrayamala Mantra—a critical study
(ii) Critical Text of 4th and 5th Cantos of the Sahitya-Vidhya-dhari
- (3) Dr. S. G. Kantawala (i) A Co-relative study of some Vedic and Puranic problems
(ii) Udbhata : His contribution to Sanskrit Poetics
(iii) Pratiharendurja : His contribution to Sanskrit Poetics
- (4) Dr. M. G. Gupta A Critical study of Ram Rasamrit Sindhu
- (5) Dr. D. S. Shukla A study of Alankar granths of Gujarat
- (6) Dr. Anil Bhatt A study of Urban Politics Data

6. Activities of newly established Unit

Local Unit for Gujarat of the Indian Council of Historical Research was started from 1st August, 1973 in the Department of History with Dr. V. K. Chavda as the Historian In-charge. Initially the unit is responsible for the translation programme in Gujarati of the books selected by the Council. The translation of the following works has been undertaken :

Work	Teacher to whom translation work has been entrusted
(i) Muhammad of Ghazna by Muhammed Habib	Dr. S. K. Desai
(ii) Foundation of Muslim Rule in India by Habibullah	Kum. U. R. Patel
(iii) Delhi Sultenate Volume of Comprehensive History of India Series	Shri M. H. Patel
(iv) 1856 : A Symposium by P. C. Joshi	Kum. S. S. Joshi

7. Faculty Union Activities :

The students formed their Departmentwise Societies Associations. The Associations of Economics and Sociology Departments each run a book bank. The Geography Department arranged an educational tour of students to Bombay-Bangalor, Andaman-Nicobar islands, Calcutta, Jalagaon and Ajanta Caves during the Diwali vacation. Owing to disturbances in the Gujarat in the months of January, February and March, 1974 the Associations/Societies were not able to carry out their usual activities.

8. Museum, Laboratory, Studio Workshop etc.

Sr. No.	Item	Cost of Equipment as on 1-1-1973 Rs.	Cost of Equipment etc. with off during the year Rs.	Cost of Equipment etc. added during the year Rs.	Cost of Equipment as on 31-3-1974 Rs.
(1)	Museum	2,5646=00	—	9,305=85	2,66,951=85
(2)	Studio	3,320=40	—	—	5,320=40
(3)	Drawing Equipment	1,806=75	—	—	1,806=75
(4)	Deadstock	7,735=28	—	8,914=53	76,649=81
(5)	Excavation	1,947=05	—	1,883=00	3,830=05
	Total	3,1,455=48	—	20,103=38	3,54,558=86

9. Distinguished Visitors

1. Professor, A. C. Harberger, 19-7-1973
Professor of Economics,
University of Chicago,
U.S.A.
2. Dr. Satish Chandra, 22-9-1973
Vice-Chairman,
University Grants Commission,
New Delhi.
3. Dr. John R. Wood, December, 1973
Head, Indo-Canadian Shastri Institute,
New Delhi.
4. Professor R. C. Dwivedi, 1-1-1974
Head, Sanskrit Department,
Udaipur University,
Udaipur.

CHAPTER IX—FACULTY OF SCIENCE

1. Some New Experiments

(i) In the Bio-Chemistry Department, Ph.D. students were advised to take courses (a) in one of the European Languages, (b) Neurochemistry, nutrition, microbial chemistry or plant biochemistry depending on the field of their research, (c) Research methodology if not taken at the M.Sc. level and attend a daily review, seminar class.

(ii) In the Zoology Department, studies on diabetes and wound healing have been extended with additional experimental procedures. Endocrine glands and their influence on regenerative process is a new line of studies undertaken. A study of hormonal influences on hepatic metabolism and certain studies on mammalian avian reproductive biology are some of the other experiments initiated.

2. Courses of Studies

There is provision for teaching the following courses :

- | | |
|---|---|
| (1) B.Sc., M.Sc. and Ph.D. | Botany, Chemistry, Geography,
Geology, Mathematics, Physics,
Statistics and Zoology |
| (2) M.Sc. and Ph.D. | Biochemistry and Microbiology |
| (3) M.Sc. (Applied Geology) | One year course after M.Sc. (Geology) |
| (4) Pre-Medical | One year course after Preparatory
Science |
| (5) Diploma in Laboratory
Techniques | Two year course after S.S.C.E. |

The three year B.Sc. course started in the year 1957 is an integrated course after Preparatory Science. Students are required to take one principal and two subsidiary subjects out of the following :

Botany, Chemistry, Economics (at subsidiary level only), Geography, Geology, Mathematics, Physics, Statistics and Zoology.

The M.Sc. course is of two years' duration after B.Sc., which is taught in two parts viz. M.Sc. (Previous) and M.Sc. (Final). The course is by papers in all the subjects except Microbiology where a dissertation is a requirement.

The Ph.D. course is by research only and minimum period of its duration is two years after M.Sc.

- (b) The following modifications to the existing pattern were made:
- (i) Mathematics Department: The syllabi for Mathematics in F.Y.B.A. (Minor) and S.Y.B.A. (Minor) Paper I were modified.
- (ii) Statistics Department: An Optional Paper on Econometrics has been introduced at the M.Sc. (Final) Statistics.
- (iii) Zoology Department: New syllabi for M.Sc. Previous and Final were introduced and made effective from June, 1973. The new syllabi encompass modern aspects of and trend in teaching of biological sciences at advanced levels. In addition to reorganization and modernization of various topics, subjects like behavioural science and environmental biology were also included in the courses.
- (iv) The course for the Pre-Medical Class has been modified keeping in view the specific needs of students preparing for a professional course like Medicine.

Number of Students

3. The number of men and women students on roll in the various classes in the year 1973-74 was as under.

Class	Boys	Girls	Total
(1) Diploma in Laboratory Techniques :			
(a) First Year	10	—	10
(b) Second Year	7	—	7
Total :	17	—	17
(2) Pre-Medical	119	27	146
(3) F.Y.B.Sc.	278	144	422
(4) S.Y.B.Sc.	153	102	255
(5) T.Y.B.Sc.	234	119	353
Total :	784	392	1,176
(6) M.Sc. (Previous)	131	67	193
(7) M.Sc. (Final)	126	43	169
(8) M.Sc. (Applied Geology)	1	—	1
Total :	258	110	368
(9) Ph.D.	46	14	60
Grand Total :	1,105	516	1,621

4. Staff

(a) Present Position :

The staff of the Faculty consisted of 13 Professors (four of whom are in the Senior Scales, 26 Readers, 133 Lecturers, 94 Class III and 72 Class IV employees. The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions of the M. S. University, where Science subjects are included in their courses, e.g. Preparatory Unit for Science, Faculty of Arts, and Faculty of Commerce.

(b) New appointments :

Sr. No.	Designation	Name	Department	Date of joining
(1)	Lecturer	Dr. B. S. Shah	Physics	3-8-1973
(2)	Lecturer	Dr. J. S. Bandukwala	Physics	3-8-1973
(3)	Lecturer	Dr. (Smt.) K. D. Kanitkar	Chemistry	23-7-1973
(4)	Lecturer	Dr. B. R. Panchal	Chemistry	11-8-1973
(5)	Microanalyst	Shri S. S. Madhav-Rao	Chemistry	22-10-1973
(6)	Reader	Dr. G. N. Pandya	Mathematics	26-11-1973
(7)	Reader	Dr. J. P. Singhal	Mathematics	29-11-1973
(8)	Lecturer	Shri N. V. Patel	Mathematics	25-6-1973

(c) Teachers upgraded to higher positions :

Sr. No.	Name of the Teacher	Post held on 31-3-1973	Post held on 31-3-1973	Date from which upgraded
(1)	Dr. V. M. Shah	Reader	Professor in Mathematics	11-10-1973
(2)	Dr. N. Radhakrishnan	Assistant Lecturer	Lecturer in Zoology	1-4-1973
(3)	Dr. P. K. Hiradhar	Assistant Lecturer	Lecturer in Zoology	1-8-1973
(4)	Dr. A. V. Ramachandran	Assistant Lecturer	Lecturer in Zoology	1-8-1973
(5)	Shri N. R. Shah	Assistant Lecturer	Lecturer in Physics	3-7-1973
(6)	Shri S. R. Pandya	Assistant Lecturer	Lecturer in Physics	3-7-1973
(7)	Dr. N. L. Kekan	Assistant Lecturer	Lecturer in Physics	16-12-1973

(d) Teachers who left :

Sr. No.	Designation	Name	Subject	Reason
(1)	Lecturer	Dr. K. K. Sakariah	Biochemistry	To go abroad
(2)	Lecturer	Shri M. J. Mehta	Chemistry	To go abroad
(3)	Lecturer	Shri A. P. Kuriakose	Chemistry	To go elsewhere
(4)	Lecturer	Shri T. C. Thomas	Chemistry	To join industry
(5)	Lecturer	Kum. N. H. Pardanani	Chemistry	To go abroad
(6)	Lecturer	Shri K. C. Abraham	Physics	To go elsewhere
(7)	Lecturer	Dr. (Kum.) Elizabeth Mathai	Physics	To go elsewhere
(8)	Lecturer	Dr. B. R. Panchal	Chemistry	To go abroad
(9)	Lecturer	Shri B. C. Mehta	Statistics	Expired
(10)	Reader	Dr. G. N. Pandya	Mathematics	To go abroad
(11)	Professor	Dr. N. S. Pandya	Physics	On retirement
(12)	Lecturer	Shri Y. K. Sane	Botany	On retirement

5. Professional Growth of the Staff

(a) Published Articles/Papers in Indian and/or Foreign Journals of merit :

(i) Articles :

Sr. No.	Author	Title	Journal
(1)	R. Rajalakshmi	The role of IBRO in Developing Countries	IBRO News, Vol. 1, 45 (1973)
(2)	R. Rajalakshmi, S. S. Sail, D. G. Shah and S. Y. Ambady	The effects of supplements varying in carotene and calcium content on the physical, biochemical and skeletal stature of preschool children	Br. J. Nutr., 30, 75 (1973)
(3)	Rajalakshmi R., Parmeswaran, M., Telang, S. D. and Ramakrishnan, C. V.	Effect of moderate and severe post-weaning under nutrition on glutamate dehydrogenase and decarboxylase in rat brain	Baroda Journal of Nutrition, 1, 15 (1974)
(4)	Rajalakshmi R., Sail, S. S. and Ramachandran, K.	Studies on the availability of carotene in leafy vegetables in adult men	Baroda Journal of Nutrition, 1, 1, 29 (1974)

Sr. No.	Author	Title	Journal
(5)	Sail, S. S. and Patel, S. M.	Effect of vitamin B 12 supplementation on nutritional status and psychological performance	Baroda Journal of Nutrition, 213 (1974)
(6)	V. P. Fadia and A. R. Mehta	Tissue culture studies on Cucurbits. II Effect of kinetin alone and in combination with auxin in and gibberellic acid on growth of Cucumis callus culture	The J.M.S.U. Baroda, Vol. No. XXI, 1972 (Published in 1973)
(7)	R. P. Bhatt and S. D. Sabnis	Further contribution to the flora and vegetation of Khedbrahma region of North Gujarat	"
(8)	V. P. Fadia and A. R. Mehta	Tissue culture studies on Cucurbits. III Growth and nutrition of Cucumis callus cultures	Ind. J. Exp. Biol., Vol. II, No. 5, 1973.
(9)	Pathak, C. H.	D.N.A. and Kundalini	Journal of Oriental Institute, Baroda, March 1974
(10)	S. G. Patel and Suresh Sethna	Studies in Chromones and Flavones Part VIII. Studies on 4'-hydroxyflavone	Indian Chem. Soc 50, 274, 1973
(11)	S. G. Patel and Suresh Sethna	Studies in Chromones and Flavones Part IX. Studies on 6 and 7 methyl flavones	J. Indian Chem. Soc., 50, 295, 1973
(12)	T. C. Thomas and Suresh Sethna	Studies in Chromones and Flavones Part X. Synthesis of some acenaphtho-pyrones	J. Indian Chem. Soc., 50, 326, 1973
(13)	K. M. Jainamma & Suresh Sethna	Studies in some formyl coumarins	J. Indian Chem. Soc., 50, 606, 1973
(14)	K. M. Jainamma & Suresh Sethna	Synthesis 4-methyl furo (5; 4'; 6, 7) coumarin	J. Indian Chem. Soc., 50, 700, 1973

- | Sr. No. | Author | Title | Journal |
|---------|---|---|-------------------------------------|
| (15) | Y. A. Shaikh and K. N. Trivedi | Synthesis of 5, 7, 8-trimethoxy-3-methyl chromone derivatives | J. Indian Chem. Soc., 50, 434, 1973 |
| (16) | V. N. Dholakia and K. N. Trivedi | Studies in the synthesis of coumarino-pyrones and Furo-coumarins Part XX. Synthesis of Furo (3, 2-c) and Furo (3, 2-f) benzopyron derivatives | J. Indian Chem. Soc., 50, 813, 1973 |
| (17) | A. H. Vyas, C. G. Bhat, B. R. Kamath and S. L. Bafna | Cinchona alkaloids on ion exchange resins V: Ammonium form of resins | J. Pharm. Sic. 62(8), 1386, 1973 |
| (18) | A. M. Talati and V. N. Mistry | Chelate polymers of 2, 5-dihydroxy p-benzoquinone and amines with cobalt | J. Indian Chem. Soc., 50, 296, 1973 |
| (19) | A. M. Talati and V. N. Mistry | Chelate polymers of 5, 8-dihydroxy quinoxalene and 2, 5-dihydroxy p-benzoquinone | J. Indian Chem. Soc., 50, 225, 1973 |
| (20) | A. M. Talati and R. N. Kapadia | Cobalt, and nickel complexes of oximeimine and oximethios-emicarbazone | Indian J. Chem. 11, 836, 1973 |
| (21) | A. M. Talati, R. N. Kapadia, T. I. Patel and K. B. Shah | Transition metal complexes of vic-oximeketone and diamine | J. Indian Chem. Soc., 50, 89, 1973 |
| (22) | A. M. Talati, V. N. Mistry and H. N. Raval | Halogen adducts of copper glyoximate | Vidya, 17, 54, 1973 |
| (23) | A. M. Talati | Steric distortion in aromatics I. | Indian J. Chem. 11, 1328, 1973 |
| (24) | A. M. Talati and B. V. Shah | Electron transfer reactions I. | Indian J. Chem. 11, 1077, 1973 |
| (25) | A. M. Talati and V. N. Mistry | Compensation effect in semi-conducting metal-organic systems | Curr. Sci. 42 (14), 513, 1973 |

- | Sr. No. | Author | Title | Journal |
|---------|---|--|--|
| (26) | J. D. Joshi, B. R. Panchal and P. K. Bhattacharya | Study in some heterochelates Part II | J. Inorg. and Nucl. Chem. 35, 1685, 1973 |
| (27) | B. R. Panchal and P. K. Bhattacharya | Study in some heterochelates Part V | Ind. Jour. Chem. 11, 394, 1973 |
| (28) | M. V. Chidambaram and P. K. Bhattacharya | Studies on mixed amino-acid metal chelates | Acta. Chin. Hungry, 75 (2), 127, 1973 |
| (29) | J. D. Joshi, C. R. Jejurkar and P. K. Bhattacharya | Study in some heterochelates Part IV | Ind. Jour. of Chem. 11, 946, 1973 |
| (30) | J. D. Joshi and P. K. Bhattacharya | Study in some heterochelates Part VI | J. Ind. Chem. Soc., 50, 344, 1973 |
| (31) | C. R. Jejurkar and P. K. Bhattacharya | Study of quaternary complexes of Ni(II) with catechal and thioglycollic acid, thiolactic acid and pyridine or orpicoline | J. Inorg. and Nucl. Chem. 35, 2100, 1973 |
| (32) | J. D. Joshi, I. P. Mavani and P. K. Bhattacharya | Studies in some heterochelates Part VII | Ind. Jour. Chem. 11, 820, 1973 |
| (33) | R. K. Patel | On strong, Euler summability of orthogonal series | Math. Vesnik, Vol. 10 (25) No. 4, 1973 |
| (34) | R. K. Patel | On the generalised Norlund summability of orthogonal series | The Aligarh Bull. of Math. Aligarh Muslim Univ., Aligarh |
| (35) | R. T. Shukla and M. K. Murty | A note on the Petrology of the Granitic rocks of Bari area near Udaipur, Rajasthan | Indian Mineralogist, Vol. 13, pp. 46-49, 1972 |
| (36) | H. G. Desai, J. D. Desai and V. V. Modi | Regulation of Carotenogenesis in <i>P. blakesleeanus</i> | Ind. J. Microbiol. 13, 57, 1973 |
| (37) | S. B. Desai, A. K. Mattoo, V. V. Modi and G. S. Patel | Growth and Fructose 1,6 diphosphate aldolase of a Thermophilic <i>Taloromyces</i> Sp. | Ind. J. Expt. Biol. 11, 352, 1973 |

Sr. No.	Author	Title	Journal
(38)	Patricia Peris, V. V. Modi and J. L. Raina	Genetic transformation in Rhizobium	Proc. of the symposium on control mechanisms in cellular processes at Bhabha Atomic Research Centre, Bombay, p. 581, 1973
(39)	A. B. Darji and Rao R. D.	The Ultraviolet spectrum of HgBr.	J. of M. S. Univ. of Baroda, Vol. XXI, No. 3 41-42, 1972
(40)	A. B. Darji and S. P. Vaidya	Band spectrum of CaI molecule in the region 6610-6175 Å° (A and B systems)	Indian Journal of Pure and Applied Physics
(41)	V. P. Bhatt and G. R. Pandya	Etch traces and dislocation motion in Bi-Sb Single crystals	Journal of Crystal growth 19, 213-214, 1973
(42)	N. V. Vaishampayan	Effect of Impurity addition on the growth of single crystal of selenium from vapour phase	J. Crystal Growth 20, 73, 1973
(43)	D. R. Gadekar	New approach to the Geosynclinal nomenclature of the Cambay Basin	Journal of M. S. Univ. of Baroda, Vol. XXI, No. 3, page 45-54, 1972
(44)	N. M. Vashi and S. S. Merh	Fold history of the Almora Nappe synform	Wadia Institute of Himalayan Geology, 1973
(45)	N. M. Vashi and S. S. Merh	Structural pattern of the hinge zone of Almora nappe synform near Kaphra in Kumaon	Indian Science Congress, 1974
(46)	S. W. Dharmadhikari and K. Jogdev	Some results on the kernel of a set	J. Math. Anal and Appl., Vol. 44, 1973, pp. 187-195
(47)	S. W. Dharmadhikari and K. Jogdev	Characterisation of convexity and central symmetry for planar polygonal sets	Israel, Journal of Math. Vol. 15, 1973

Sr. No.	Author	Title	Journal
(48)	A. G. Phatak and D. K. Shah	The Maximum Likelihood Estimate of the Fraction Defective under curtailed Multiple Sampling plans	Technometrics, Vol. 16, 1 Feb., 1974
(49)	M. Sreehari	An Estimate of the residual in the Central limit theorem for sums of random variables (Abstract)	The Institute of Mathematical Statistics Bulletin, September, 1973
(50)	M. Sreehari	Infinite divisibility of integer-valued random variables (Abstract)	The Institute of Mathematical Statistics Bulletin November, 1973
(51)	M. Sreehari	A note on the attraction of a composition to a stable law	Journal of the M. S. University of Baroda, 1973-74
(52)	N. Das	A Factor Analysis model to study Variation of Family Planning Performance in India	Demography India, Vol. II, No. 2, 1973
(53)	R. M. Naik and Lalit Miztry	Breeding season and reproductive rate of Passer domesticus (L) in Baroda, India	Proc. Gen. Meeting work. Group Grurs. Brds IBI PT Secu. The Hague, Holland, Sept. 6-8, 1970 pp. 133-140
(54)	K. S. S. Nair and A. K. Desai	Studies on the isolation of diapause and Non-diapause strains of Trogoderma granarium everts (Coleoptera, dermestidae)	J. Stored Prod. Res., Vol. 9, pp. 181-188, 1973
(55)	P. M. Ambadkar	Certain observations on a modified region of Cauda epididymis of the rabbit	J. Anim. Morph. Physiol. Vol. 20, Nos. 1-2, pp. 13 to 20, June and December, 1973.

Sr. No.	Author	Title	Journal
(56)	R. V. Shah, M. V. Asnani and B. Pilo	Increased lymphocytopoiesis in the liver of pigeon following haemorrhage, splenectomy and injection of carbon tetrachloride	J. Anim. Morph. Physiol., Vol. 20, Nos. 1 and 2, pp. 21-26, June and December, 1973
(57)	N. Radhakrishnan and R. V. Shah	Studies on the levels of Glycogen and Phosphorylase in the normal and regenerating tail of the scincid lizard, <i>Mabuya carinata</i> : A quantitative and histochemical analysis	J. Anim. Morph. Physiol., Vol. 20, Nos. 1 and 2, June and December, 1973
(58)	A. K. Desai, G. K. Karnawar and K. S. S. Nair	Influence of diapause of Fecundity of <i>Trogoderma Granarium</i> Everts (Dermestidae coleoptera)	J. Anim. Morph. Physiol., Vol. 20, No. 2, pp. 197-199, 1973

(b) Published Books and Brochures :

Sr. No.	Name	Title	Name of the publisher
(1)	V. A. Janki	Kandla, the North Western Gateway of India	Research Paper Series 6 of the Geography Department (8th Monograph of the Department)
(2)	S. K. Shah	Classical Mechanics	University Granth Nirman Board, Gujarat State
(3)	S. W. Dharmadhikari and G. C. Patel	Statistical Inference (in Gujarati)	The University Book Production Board, Gujarat State

(c) Papers presented at All India level Seminar, Conference etc. :

Sr. No.	Name	Seminar/Conference	Title
(1)	L. J. Parekh, C. V. Ramakrishnan, P. N. Akolkar, G. S. Rao and S. D. Bhandari	Annual Meeting of Association of Microbiologists of India, Poona, November 8th, 9th and 10th, 1973	Studies on Soyidli fermentation
(2)	C. V. Ramakrishnan and J. B. Hanson	International Symposium on Bio-membrane, Madurai, December 11th to 14th, 1973	Oxidation of NADH by corn mitochondrial membrane
(3)	R. K. Patel	60th Session (Diamond Jubilee) of Indian Science Congress held at Chandigarh in January, 1974	Abstract of Paper : On strong Euler summability of orthogonal series
(4)	V. V. Modi	Proceedings and Symposium on nitrogen fixation and the biosphere, Edinburgh, U.K., October, 1973	Genetic transformation in <i>Rhizobium japonicum</i>
(5)	V. V. Modi and A. K. Mattoo	14th Annual Conference of Association of Microbiologists of India, Poona, November, 8-11, 1973	Effect of folic acid 8, azaguanidine and temperature shift on growth and flavinogenesis in <i>E. ashbyii</i>
(6)	A. N. Kachhy and V. V. Modi	do	Metabolic changes in <i>P. aeruginosa</i> grown on naphthalen as the carbon source
(7)	H. S. Chhatpar and V. V. Modi	do	Regulation of phenol oxidase activity from mango fruit infected with <i>R. bataticola</i>
(8)	V. V. Modi	do	(i) Factors affecting protein synthesis in biotin deficient <i>A. nidulans</i> (ii) Metabolic changes during B dehydroxy butyrate accumulation in <i>R. japonicum</i>

Sr. No.	Name	Seminar/Conference	Title
(9)	A. K. Mattoo	14th Annual Conference of Association of Microbiologists of India, Poona, November, 8-11-1973	(i) Growth kinetics, hexokinases and fructose diphosphate aldolases of <i>N. Crassa</i> . (ii) Accumulation of UV absorbing substances and modulation in ribonucleases in <i>N. Crassa</i> .
(10)	K. K. Rao		(i) Cell pool tryptophan phases and their role on the induction of alkaloid synthesis in <i>A. fumigatus</i> . (ii) Some factors influencing the fermentative production of alkaloids by <i>A. fumigatus</i> .
(11)	K. K. Rao	42nd Annual Conference of Society of Biological Chemists of India, Mysore, November 1-2, 1973	Studies on the induction of alkaloid synthesis in <i>A. fumigatus</i> .
(12)	J. S. Bandukwala	Bangalore	Quantum Mechanics and Stochastic Theory.
(13)	D. K. Shah	Gujarat Statistical Association, Jamnagar, December, 1973	The maximum likelihood Estimate of the Fraction defective under curtailed multiple sampling plans.

(d) Talks given at different Universities :

Sr. No.	Name	University/Place	Topic
(1)	P. K. Bhattacharya	(i) Summer School of Teachers under the auspices of Vikram University, Ujjain in May, 1973 (ii) School of Studies in Chemistry, Vikram University, Ujjain in January, 1974	Ten lectures on 'Group Theory' Six lectures on 'Molecular Structure and Spectroscopy'

Sr. No.	Name	University/Place	Topic
(2)	M. M. Patel	Gujarat University, and South Gujarat University	"Modern Application of Spectroscopy".
(3)	S. w. Dharmadhikari	Marathawad University, Aurangabad, 23rd and 24th November, 1973	Three lectures on various Statistical topics

(e) Participation in Inservice and Other Programmes:

Sr. No.	Name	Programme
(1)	S. M. Sethna	(i) Appointed as a member of the Secondary School Board, Gujarat Government (ii) Nominated as Vice-President, Institution of Chemists (India)
(2)	V. M. Shah	(i) Convener at the discussion on the Syllabus of New Mathematics for Standard IX in School at the 10th Annual Conference of Gujarat Ganit Mandal held at Ahmedabad in October, 1973 (ii) Continued to work as Editor of the monthly magazine 'Ganit Darshan' (iii) Elected as Secretary of the Gujarat Ganit Mandal for the year 1973-74
(3)	S. W. Dharmadhikari	Reelected on Council of the Indian Statistical Institute, Calcutta
(4)	M. Sreehari	Selected for participation in the National Associate Scheme of the U.G.C. for a period of five years
(5)	D. K. Shah	Elected as a member of the Executive Committee of Gujarat Statistical Association

(f) Research Work done by teachers on their own without any financial assistance from the University or any Outside Agencies :

(i) Research Work completed :

Sr. No.	Name of the Teacher	Subject
(1)	R. G. Panikar	Certain aspects of Avian Gizzard
(2)	M. Gopinath Menon	A study of feather development in birds under normal and experimental conditions

Sr. No.	Name of the Teacher	Subject
(3)	S. N. Padate	Studies on Flora and Vegetation of Savli Taluka
(4)	H. C. Patel and S. W. Dharmadhikari	Some results on the minimal complete class of linear estimates in survey sampling
(5)	M. Sreehari	On the Unimodality of the sample median
(6)	M. Sreehari	A note on Stable Characteristic functions
(7)	D. K. Shah and A. G. Phatak	The A.S.N. of the curtailed sampling plans under the Hypergeometric Probability Law (sent for Publication to Estatistica)
(8)	D. K. Shah and A. G. Phatak	The maximum Likelihood Estimation under curtailed three class Attributes plans (sent for Publication to Technometrics)
(9)	D. K. Shah and A. G. Phatak	The maximum likelihood Estimation under multiple three class Attributes Plan curtailed as well as uncurtailed (sent for Publication to Technometrics)
(10)	M. M. Gandotra and N. P. Das	Quality Control and Evaluation system of a Camp Approach
(11)	M. M. Gandotra and N. P. Das	Fertility Differentials amongst Contraceptors and Non-Contraceptors in India
(12)	M. M. Gandotra and N. P. Das	Menarcheal age and its associated factors in an Indian Population
(13)	M. M. Gandotra and N. P. Das	Some Basic Age Patterns of Indian Women in a Family Planning Programme
(14)	M. M. Gandotra and N. P. Das	Demographic Impact of Sterilization and I.U.C.D. Programme in an Indian Community
(15)	N. P. Das and D. N. Pandey	'Baroda Reporter' An Annual Publication of the Demographic Research Centre, Baroda
(16)	R. C. Patel and A. G. Phatak	Study of the Problems in supply of raw materials and power to some of the Industries around the city of Baroda.

(ii) *Research Projects undertaken by Demographic Research Centre :*

- (1) Fertility Differentials amongst Contraceptors and Non-Contraceptors in India
- (2) Menarcheal Age and its Associated Factors
- (3) Fitting of a curve for the age distribution of the sterilised spouses
- (4) A Study of seminatal mortality
- (5) A Study of Industrialization and Urbanisation in all the States in India.

(iii) *Research Work in Progress :*

Sr. No.	Name of the Teacher	Research Work
(1)	H. S. Desai	Low energy electron scattering by polar molecules
(2)	R. P. Bhatt	Karyomorphological and cytotaxonomical studies of some members of Malvaceae
(3)	S. D. Sabnis	Work on the Flora of Dara and Nagar Haveli
(4)	S. J. Bedi	Ecological and Floristic studies of the Sabad Vel Range near Songadh, Surat District
(5)	G. P. Senan and C. H. Pathak	Studies on the effect of succinic acid and gibberellic acid and sorghum
(6)	K. P. Lulla	Studies on the salt tolerance of some crop varieties of Gujarat
(7)	V. M. Shah	Fourier Analysis
(8)	O. P. Goyal	Fourier Analysis
(9)	J. P. Singhal	Special Functions
(10)	A. C. Patel	Convergence and Summability of orthogonal series
(11)	G. B. Patel	Fourier Analysis
(12)	S. R. Agrawal	On the convergence and summ. of fourier Bessel series.
(13)	S. W. Dharmadhikari	Problems in probability theory, inference and survey sampling
(14)	A. G. Phatak	Inference, Curtailed Sampling Plans
(15)	M. Sreehari	Theory of Probability
(16)	I. V. Bhanot	Design of Experiments, Demography

Research Work in Progress at Demographic Research Centre :

- (1) A Study of Fetal wastage and maternal mortality by age and parity.
- (2) Baroda Fertility Study—Repeat Survey
- (3) A comparative study of Sterilized Spouses in Baroda District
- (4) Functional Characteristics of all cities and towns and their effect on urban growth in Gujarat State
- (5) A study of variation in achievement of targets in Gujarat State
- (6) Depth study to assess the reasons for good or bad performance at district and lower levels.
- (7) Population projection for Gujarat State

6. Activities of special type of Centres/Units in the Faculty

(1) A Research Unit has been established in collaboration with Professors of Paediatrics and Neurosurgery, Medical College, Trivandrum for the nutritional and biochemical studies on kwashiorkor and marasmus children.

(2) U. G. C. Programme of special assistance to selected departments has been started from 1-2-1973 to develop nutrition teaching and research. It is proposed to strengthen (a) Ph.D. training programme, (b) M.Sc. Project Work, (c) Run a Journal in Nutrition, and (d) Write text books in the fields of nutrition and nutrition methodology.

(3) The Statistical Service Unit made an income of Rs. 6,881 this year. The Statistical Service Unit gave consultation facility to Sarvashri D. S. Pathak, S. Dalsania and D. R. Shah of the Economics Department and Shri J. G. Gujjar of the Education Department and Kum. Valsha Kurian of the Faculty of Home Science in their research work.

The Statistical Service Unit prepared the Statistical Summary of the Medical Examination Reports of the students of 1969-70, 1970-71 of the M. S. University of Baroda and this was published in August, 1973.

(4) The Demographic Research Centre is attached to the Department of Statistics. Professor (Smt.) Indira Bhanot who works as Director of the Centre, organises and supervises all the Research Projects undertaken by the Centre.

(a) Professor I. V. Bhanot, and Shri Narayan Das, participated in 'Family Planning Seminar' organised by the Federation of Gujarat Mills and Industries, Baroda on 25th August, 1973, where Professor Bhanot worked as a Chairman in Group I (Family Planning Policy and Programme Planning) and Shri Das worked as a Repporteur in Group-IV (Client's Attitudes, belief, knowledge and Family Planning Work).

(b) Shri M. M. Gandotra participated in a Family Planning Workshop, organised jointly by the Municipal Corporation, Family Planning Bureau, Baroda and the Federation of Gujarat Mills and Industries on 27th March, 1973, where he presented a paper.

(c) Shri N. Das gave a talk to Computers of Gujarat State on ' Importance of keeping records on Family Planning ' held at Jilla Panchayat Office, Nadiad on 24th August, 1973.

7. Faculty Students' Association :

The Executive Committee of the Faculty Students' Association comprised 20 members of which 17 were elected and 3 nominated. The Dean acted as the President. Many staff members assisted in various activities like Entertainment, Magazine, Sports and Games etc.

A Musical evening was organised on 9-9-1973 for Flood Relief Fund. An amount of Rs. 600/- was donated to the Chief Minister's Flood Relief Fund. The Students' Common Room was renovated. Kum. Trusha Desai of F.Y.B.Sc. Class won first prize in a number of debates, organised by various societies in the Clty. Kum. Rita Pandya performed a brave feat by sailing from Daman to Saurashtra.

The name of Shri B. C. Mehta with whose passing away the Department of Statistics lost a dedicated teacher, will henceforth lend a special significance to the activities of the Student Library. The Library has been always financed by the Statistical Society. But this year students of the M.Sc. (Final) class took out a collection in memory of their late teacher Shri Mehta and contributed the sum of Rs. 153 to the Library fund. The Library shall in future be known as Shri B. C. Mehta Students Library.

8. Museum, Laboratory, Studios, Workshop etc.

The Museum in the Botany, Geography, Geology and Zoology Departments were enriched by addition of specimens and other articles ; considerable progress has been made in the work of preparing a good herbarium in the Botany Department. The Central Workshop did useful work in the preparation of apparatus required for research and other work, repairing of instruments and of training Post-graduate students of Physics Department in Workshop practices, etc.

Addition of scientific apparatus and equipment were made during the year to the laboratories of the various departments. The following table gives the cost of equipment in the laboratories of the various departments added during the year 1973-74 and the total cost as on 31-3-1974.

Laboratory	Cost of equipment as on 1-4-1973	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1974
	Rs.	Rs.	Rs.	Rs.
Biochemistry	6,55,108	48,339	1,840	6,08,609
Botany	4,89,717	—	42,827	5,32,544
Chemistry	6,88,266	—	57,803	7,46,069
Geography	2,57,356	—	9,306	2,66,662
Geology	5,80,050	—	5,972	5,86,022
Microbiology	3,93,460	—	10,000	4,03,460
Physics	7,94,780	—	20,316	8,15,096
Workshop	68,348	—	—	68,348
Statistics	1,51,608	—	1,661	1,53,269
Zoology	4,91,860	—	44,260	5,36,120
Total :	45,70,553	48,339	1,93,985	44,16,199

9. Faculty Publications.

The following two Journals are published in Zoology Department. Prof. J. C. George is the Editor and Prof. R. V. Shah, Managing Editor of these Journals.

Name of the Journal	Month of Publication
(1) Journal of Animal Morphology and Physiology	June and December
(2) 'PAVO' (The Indian Journal of Ornithology)	March and September

10. Visitors

Dr. C. F. Hesseltine, of the United States Department of Agriculture, U.S.A. visited the Faculty on 10th August, 1973.

CHAPTER X (A)—FACULTY OF EDUCATION AND PSYCHOLOGY

1. Courses of Studies

There is provision for the following courses:

- | | |
|------------------------------|--|
| (i) B.A., M.A., Ph.D. | Psychology |
| (ii) B.Ed., M.Ed., Ph.D. | Education and Educational Administration |
| (iii) Post-graduate Diplomas | (a) Educational Administration
(b) Guidance and Counselling |
| (iv) Under-graduate Diplomas | (a) Education
(b) Early Childhood Education |

2. Number of Students

The number of students enrolled in various courses during the year was as follows:

	Men	Women	Total
(a) Under-graduate Diploma: Diploma in Early Childhood Education	—	20	20
(b) Degrees:			
(i) B.Ed.	57	143	200
(ii) S.Y.B.A. (Psy.)	14	50	64
(iii) T.Y.B.A. (Psy.)	13	38	51
Total	84	231	315
(c) Post-graduate Degrees:			
(i) M.Ed. (Full-time)	5	8	13
(ii) Jr. M.Ed. (Part-time)	39	2	41
(iii) Sr. M.Ed. (Part-time)	18	6	24
(iv) M.A. Part I (Psy.)	4	13	17
(v) M.A. Part II (Psy.)	3	7	10
Total	69	36	105
(d) Doctorate:			
(i) Ph.D. (Education)	18	7	25
(ii) Ph.D. (Psychology)	3	—	3
Total	21	7	28
Grand Total	174	294	468

3. Staff

(a) Present Position:

During the year the staff of the Faculty (including CASE) consisted of 4 Professors, 8 Readers, 19 Lecturers, 1 Assistant Lecturer, 3 Senior Research Fellows, 11 Junior Research Fellows, 19 Class III and 9 Class IV employees.

(b) New Appointments:

Dr. (Kum.) S. L. Patel and Kumari M. S. Padma as Lecturers in Education. Smt. N. A. Shelat as Lecturer in Educational Administration. Shri J. B. Patel as Lecturer in Psychology.

(c) Teachers promoted or upgraded:

- (i) Dr. M. M. Shah, Lecturer in Education promoted as Reader in Education temporarily.
 (ii) Dr. N. T. Pandey, and (iii) Kum. K. R. Advani Assistant Lecturers in Psychology were promoted as Lecturers in Psychology.

(d) Teachers who left the University:

Dr. B. P. Lulla, Reader in Education (Resigned for better prospects).

4. Professional Growth of the Staff

(a) Publication of Articles/Papers:

Author	Title	Name of the journal wherein published with month of publication
(1) Prof. D. M. Desai	(i) An Overview of the Five Year Plans in Education	Nutan Shikshan, Baroda, November, 1973
	(ii) A review of research on Instructional Leadership (Mimeograph)	Department of Educational Administration, February, 1974
(2) Dr. B. K. Passi	Discrepancy between Test, Self and Teachers' Estimations in Relation to Intelligence Anxiety and Sex	Journal of Education and Psychology, April, 1973
(3) Dr. B. K. Passi and M. S. Lalithama	Self Concept and Creativity over Normal and under Achievers among Grade X Students of Baroda	Indian Journal of Psychometry and Education IV, 1-11-1973
(4) Dr. B. K. Passi and others	Massed Versus Spaced Learning in Relation to Intelligence, Anxiety, Introversi—Extrasi on among Adolescent Girls	Journal of Psychological Researches, 17(2): 68-73, 1973

(b) Publication of Books, Monographs, Brochures, etc.:

Author	Title	Publisher
(1) Prof. D. M. Desai	(i) Comparative Education (Structure, System, Trends and Problems of some European, Asian, American and African Countries.)	University Grantha Nirman Board, Ahmedabad, October, 1973 (In Gujarati)
	(ii) Educational Planning	University Granth Nirman Board, Ahmedabad, December, 1973 (In Gujarati)
(2) Dr. M. B. Buch, Dr. B. K. Passi and Kum. M. S. Padma	Review of Research in the M. S. University of Baroda	CASE, Faculty of Education and Psychology, Baroda, December, 1972

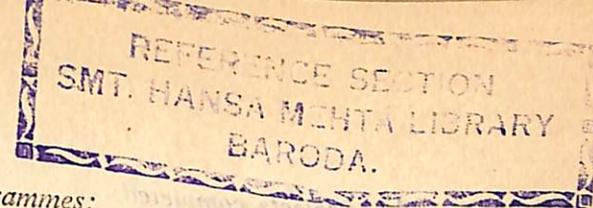
(c) Papers presented at Conferences:

Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper Presented
(1) Prof. D. M. Desai	(i) XVI Annual Conference of Indian Association of Teacher Educators at Patna, 15-18 October, 1973	Targets for qualitative Improvement of Teacher Education in the Fifth Plan
	(ii) 49th Annual Meeting of the Inter-University Board of India, February, 1974	Some Aspects of Changing Pattern of University Constitution
(2) Dr. B. K. Passi	State Board of Teacher Education, Ahmedabad, 17, 18 November 1973	Microteaching—an innovation in Teacher Education
(3) Prof. A. S. Patel	(i) Seminar on 'Multidisciplinary Approach in Mental Health', organised by the Indian Council of Social Welfare at Baroda, 1973	Frustration, Unrest and Problems of Mental Health—A Psychological Approach

Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper Presented
(ii)	Conference of Indian Academic of Applied Psychology at Calcutta, December, 1973	A Survey of Superstitions prevalent among Rural High School Children, as related to some Sociological Factors
(iii)	Indian Congress at Nagpur, January, 1974	(i) A Study of some Personality Traits (Conservative reformist Trends) of Adolescents as related to their Birth Order (Jointly with Chandrika C. Patel) (ii) Aggression—its Psychological nature and some Implications

(d) Talks:

Name of Teacher	Place	Subject of the Lecture
Prof. D. M. Desai	(i) Shri R. P. Ananda Shikshan Mahavidyalaya, Borsad (5-1-1974)	Some Fundamental Aspects of Educational Methods (Gujarat University Lecture)
	(ii) Sarvajanik College of Education, Godhra (22-1-1974)	Some Wider Implications of the Study of Educational Psychology (Gujarat University Lecture)



(e) Participation in In-service Programmes:

Name of Teacher	Programme, Place and Dates	Capacity in which Participant
Shri D. R. Darji	Regional College of Education, Bhopal, (1-6-1973 to 30-6-1973)	Worked as a Guest Educator

(f) Research:

Research Work Completed:

Prof. D. M. Desai	(i)	A Critical Study of the Contribution of the Arya Samaj to Indian Education (Guide)
	(ii)	Study of Leadership for Improving Instruction in High Schools of Selected Districts in Gujarat (Guide)
	(iii)	A Critical Study of Perceptions of M. S. University Community towards Students Personnel Services. (Guide)

5. Centre of Advanced Study in Education

The Centre continued to encourage the pursuit of excellence in studies and research work in Education, and accelerate the realisation of high standards in these fields through its multifaced activities during the year 1973-74.

Research Activities:

Research programmes going on at the Centre have the following special characteristics: (i) studies undertaken at the Centre are aimed at providing a break through in certain selected areas, (ii) studies are mostly experimental in nature involving sophisticated designs, (iii) team spirit is emphasized and (iv) findings of studies carried out at the Centre are communicated to the teacher-educators and training institutions through publications and extension lectures, and (v) assistance is provided to educational institutions.

The Centre has recognised the following areas for intensive study and sustained research work:

- (1) Teaching, Teacher Behaviour and Teacher Education.
- (2) Programmed Learning and Educational Technology.
- (3) Innovations and Educational Change Process.
- (4) Achievement Motivation.
- (5) Teacher Morale and Organisational Climate.

A. Projects completed:

Following research projects at the doctoral level were completed during the year 1973-74:

Teaching, Teacher Behaviour and Teacher Education:

- (i) Relationship between patterns of teacher classroom behaviour and pupils attainment in terms of instructional objectives.
- (ii) Personality, attitudes and classroom behaviour of teachers.
- (iii) A comparative study of the effectiveness of training through Micro-teaching technique, through FIACS and through traditional method.
- (iv) Classroom behaviour training of teachers and its relationship with some selected measures of teacher effectiveness.
- (v) A study of the effect of feedback from different sources on the classroom behaviour of student teachers using the technique of under-action analysis.
- (vi) A critical study of development, organization, programmes and finances of colleges of education at the graduate level in Gujarat State.
- (vii) A critical study of the development of Teacher Education in the State of Punjab.

Programmed Learning and Educational Technology:

- (i) A study of the efficacy of programmed learning material for developing reading ability in English.
- (ii) Development of programmed learning material on some important units.
- (iii) The scope, utility and limitations of Educational Television in India.

Innovations and Educational Change Process:

- (i) Perception of the characteristics of innovations as related to their diffusion in the schools of Gujarat.
- (ii) A study of the relationship of innovative proneness to certain selected variables.

Teacher Morale and Organisational Climate:

- (i) An investigation into the organisational climate of secondary schools of Rajasthan.
- (ii) Social Climate in the School and characteristics of pupils.
- (iii) A study of the relationship between organisational climate, teacher morale and school quality.

Other areas of Research:

- (i) A critical study of the contribution of the Arya Samaj to Indian Education.
- (ii) A study of creativity and some personality traits of the intellectually gifted high school students.
- (iii) A study of certain factors associated with academic achievement in the first year degree examination.
- (iv) A critical study of perception of the M. S. University community towards student personnel services.
- (v) A study of the effect of Library use on academic achievement of post-graduate students in the M. S. University of Baroda.

Following research projects at the institutional level were completed during the year:

(i) A survey of Research in Education:

Under this project, all the research studies related to education which had been completed at various research institutions and university departments of India were abstracted and compiled at the Centre. The survey covered 342 Ph.D. theses from university departments of education, 118 Ph.D. theses on educational problems from other disciplines and 269 other research projects. Trend Reports of research were prepared in each of the major aspects of Education and were developed in collaboration with experts in the respective areas, on the bases of the research abstracts compiled. Report of the projects has been published in printed form by the CASE.

- (ii) Review of Research in the M. S. University of Baroda (1949-1972).
Under this project, all the research activities that were going on in the University were reviewed in order to take stock of the existing position of research in the University and to make suggestions if need be, for the improvement of the same. The report of the project has been published by the CASE.
- (iii) A developmental programme for imparting skill in teaching through the technique of microteaching.
- (iv) Preparation of a special curriculum for developing Achievement Motivation in the school students.

(B) Projects in Progress:

- (i) A study of the relationship between teaching patterns and pupils' attachment.
- (ii) Relationship between the classroom behaviour of secondary school teachers and two characteristics, namely, creativity and self-concept.

- (iii) An inquiry into classroom behaviour of teachers only related to teacher perceptions.
- (iv) A study on the application of micro-teaching techniques and its comparison with the traditional way of teaching.
- (v) A study of the efficacy of micro-teaching technique and other modelling procedures in the acquisition of questioning skills.
- (vi) Investigation into the effects of different techniques of feedback upon the attainment of teaching skills.
- (vii) A study of curriculum innovations in the preparation of Indian Teachers.
- (viii) A study of the relationship between the performance of teachers under training and certain perceptual factors.
- (ix) Developing and trying out a teacher education programme based on certain identified classroom teaching skills.
- (x) A study of the administration and financing of teacher education programmes in the State of Punjab.
- (xi) An experimental study in the use of programmed learning material for the B.Ed. class.
- (xii) Development of programmed learning material in English and studying its effectiveness with different teacher roles.
- (xiii) A study of the barriers to change in secondary education.
- (xiv) A study of the level of achievement motivation, fear of failure, aspiration and achievement press among the students of Punjab and Haryana.
- (xv) A study of achievement motive, fear of failure, anxiety and general concerns among tribal and non-tribal college students of Meghalaya.
- (xvi) A study of pupils achievement motive, its correlates and their achievement related perceptions in relation to socio-economic status.
- (xvii) Reading readiness in Gujarati children.
- (xviii) A study of organizational climate, teachers' morale and their impact on quality of teacher education in Gujarat State.
- (xix) A study of the levels of achievement motivation of the scheduled tribe pupils studying in the schools of South Gujarat.
- (xx) A study of leadership behaviour and its correlates in the secondary schools of Panchmahals district.

(C) *Collaboration of the Centre with other institutions:*

The Centre collaborated with institutions like the National Institute of Bank Management and the Education Departments of various State Governments in the country in programmes of professional importance and extended its co-operation to the academic programmes of these institutions as shown below:

<i>Institution</i>	<i>Area in which help was given</i>
(i) National Institute of Bank Management	Development of Selection Test for Employees of national banks.
(ii) Andhra University	Developing courses of study for M.Ed. and Ph.D. level.
(iii) Government of Maharashtra	Developing academic programmes for the Institute of Higher Education set up by the State Government.
(iv) Government of Rajasthan	Developing instructional programmes for the 12th year of higher secondary stage.
(v) Indian Association of Programmed Learning.	Publication of the Journal Shaikshik Taknaniki.

The Centre is planning joint programmes of research in areas of common interest with Gujarat Vidyapeeth, Ahmedabad.

(D) *Seminars and Symposia:*

The Centre organised seminars and symposia on the following subjects:

- (i) Achievement Motivation
- (ii) Methodology of Research in Education
- (iii) Curriculum Development
- (iv) Role of NCERT in supporting Educational Research
- (v) Student Teaching

(E) *Publications:*

(1) *Books:*

- | | | |
|-------|---|------|
| (i) | Dr. M. B. Buch, Review of Research in the Mr. B. K. Passi M. S. University of Baroda and Kum. M. S. (1949-1972) Padma | CASE |
| (ii) | Dr. M. B. Buch, A Survey of Research in Education (Ed.) | CASE |
| (iii) | Dr. B. K. Passi and Dr. M. M. Shah Microteaching and Teacher Education | CASE |
| (iv) | Shri S. P. Bhattacharya Review of Research in Theory of Teaching | CASE |

- (v) Dr. M. L. Sharma, Diagnosing School personality
Dr. P. M. Buch
and
Dr. Kamla Rai
- (2) *Articles and Papers:*
- (i) Dr. B. K. Passi (a) Definition of Creativity—A Review Study
(b) Creativity Tests for Higher Secondary School students and some Related Findings
(c) Concurrent Validity and Percentile Norms of Jalota's General Mental Ability Test (1/60) in relation to Sex and Residence
- (ii) Dr. B. K. Passi and Shri R. Sood Discrepancies between Test, Self and Teachers' Estimations in relation to Intelligence, Anxiety and Sex
- (iii) Kum. G. Mubayi, and Dr. M. L. Sharma Organisational Climate of Tribal Schools of South Gujarat: An exploratory study
- (iv) Shri Tribhuval Singh A Retrospective Look at Research on Teacher Education in India
- (v) Dr. M. B. Buch and Dr. M. S. Yadav Educational Research in India
- (vi) Dr. M. N. Palsane and Dr. P. M. Buch Guidance and Counselling
- (vii) Dr. S. K. Mitra and Dr. K. Kumar Tests and Measurement
- (viii) Dr. D. B. Desai and Shri S. P. Text-books
- CASE
Creativity Newsletter, Vol. 2, No. 2, 1973.
International Newsletter, 14, 1973
Journal of Educational Research and Extension, Vol. 10, No. 3, 1974
Journal of Education and Psychology, Vol. 31, No. 1, 1973
Quest. in Education, Vol. X, 1973
Teacher Education, Vol. VIII, No. 2, 1974
A Survey Research in Education, CASE, 1974
A Survey of Research in Education, CASE, 1974
—do—
—do—

- (ix) Dr. S. S. Kulkarni and Dr. G. G. Kapadia Programmed Learning A Survey of Research in Education, CASE, 1974.
- (x) Dr. B. K. Passi and Kum. M. S. Padma Educational Evaluation and Examinations —do—
- (xi) Dr. N. K. Jaggira and Dr. Sudesh Sharma Teaching and Teacher Behaviour —do—
- (xii) Dr. B. P. Lulla and Dr. L. P. Singh Teacher Education —do—
- (xiii) Dr. D. M. Desai and Shri K. S. Rao Educational Administration —do—
- (xiv) Prof. S. N. Mukerji and Shri M. Mukhopadhyaya Economics of Education —do—
- (xv) Prof. S. Kapoor and Dr. M. L. Sharma Social and Adult Education —do—
- (xvi) Dr. M. R. Santhanam and Shri R. Govinda Educational Surveys —do—
- (F) *Visitors:*
- (1) Prof. J. Taylor, School of Education, University of Bristol, U.K.
- (2) Dr. N. C. Gupta, Professor in Education, Ball State University of Muncie, U.S.A.
- (3) Prof. M. Skilbeck, New University of Ulster, U.K.
- (4) Dr. S. K. Mitra, Joint Director, N.C.E.R.T., New Delhi.

- (5) Dr. P. N. Dave,
Professor of Education,
Regional College of Education,
Mysore.
- (6) Dr. S. B. Adaval,
Professor and Head,
Department of Education,
University of Allahabad,
Allahabad.
- (7) Dr. C. K. Basu,
Reader in Psychology,
University of Delhi,
Delhi.
- (8) Dr. G. Chaurasia,
Principal,
Government College of Education,
Jabalpur.
- (9) Dr. K. N. Saxena
N.C.E.R.T.,
New Delhi.
- (10) Prof. Prayag Mehta,
Department of Psychology,
University of Udaipur,
Udaipur.

6. Department of Extension Services

The Department continued to cater to the needs of more than 405 schools of Baroda, Panchamahals, Surat and Bulsar Districts.

(i) Summer School of Education and Seminar and Workshop :

Sr. No.	Particulars	Dates	Place	Number of Participants
(1)	Summer School of Education:			
(i)	New Mathematics	7-5-1973	Baroda	300
(ii)	Science	to		250
(iii)	Sanskrit	12-5-1973		100
(iv)	Work-experience, Vocational-isation of Secondary Education and Higher Secondary Education Pattern	21-5-1973 to 26-5-1973	Saputara	55

Sr. No.	Particulars	Dates	Place	Number of Participants
(2)	Seminars and Workshops:			
(i)	New Mathematics	16-7-1973 to 22-7-1973	Baroda	48
(ii)	New Mathematics	23-7-1973 to 29-7-1973	Baroda	53
(iii)	Classroom Interaction	1-8-1973 to 2-8-1973	Broach	23
(iv)	New Mathematics	6-8-1973 to 12-8-1973	Baroda	25
(v)	New Mathematics	24-8-1973 to 30-8-1973	Baroda	22
(vi)	New Mathematics and Science	20-8-1973 to 30-8-1973	Baroda	48
(vii)	Teaching of Science	10-9-1973 to 20-9-1973	Baroda	60
(viii)	New Mathematics	3-9-1973 to 8-9-1973	Dahod	160
		24-9-1973 to 30-9-1973		
(ix)	Teaching of Science	1-10-1973 to 10-10-1973	Baroda	
(x)	Teaching of Mathematics and Science	12-10-1973 to 16-10-1973	Bajwa	65
(xi)	Supervisory Skills in Mathematics and Science	15-10-1973 to 16-10-1973	Bajwa	42
(xii)	Teaching of New Mathematics	12-11-1973 to 17-11-1973	Godhara	50

(ii) *Experimental Projects:*

Eleven Experimental Project designs have been submitted to N.C.E.R.T. for financial assistance. Seventeen project proposals received academic approval of N.C.E.R.T. for the year 1973-74.

(iii) *Seminar Reading Programme:*

One paper was submitted for State level competition for the year 1974-75 and Seven were sent for the National Competition.

(iv) *School Visits:*

Various schools in the area were visited during the period, as specially the Rural Schools were more interested in the programmes of the Development.

7. **CASE Library**

For the benefit of the post-graduate and doctoral students of the Faculty, CASE Library is being maintained as a post-graduate reference library. The library subscribes to 26 Indian Journals and 20 foreign journals. During the year, the library utilized a recurring grant of Rs. 15,000/-. About 500 books have been added this year bringing the total number of books to 10,400.

CHAPTER X (B)—UNIVERSITY EXPERIMENTAL SCHOOL

1. **Courses of Study**

The school continued to follow the syllabus and courses prescribed by the Department of Education, Government of Gujarat and the S.S.C. Examination Board of the Gujarat State.

The school provides for craft in paper-work in Class IV and that of wood-work and needle-work in classes V, VI and VII. Classes IX and X have to select any of Art, Music, Science, Wood-work and Games as their Hobby.

2. **Number of Students**

<i>Classes</i>	<i>Boys</i>	<i>Girls</i>	<i>Total</i>
Primary : I to VII	162	140	302
Secondary : VIII to XI	109	97	206
Total	271	237	508

3. **Staff**

	<i>Graduate trained teachers</i>	<i>Under- Graduate trained teachers</i>	<i>Total</i>
(1) Primary Section	2	4	6
(2) Secondary Section	8	—	8
(3) Specialised teachers	2	2	4
(4) Office-Staff	1 Senior Clerk, 2 Junior Clerks and 1 Laboratory Assistant		
(5) Class IV Employees	5 for Secondary Section and 2 for Primary Section		

4. **Professional Growth of the Staff***Participation in various Programmes:*

- (1) Smt. S. J. Chauhan Participated in the second workshop of the Paper-setters in English, organised by the S.S.C. Board and the N.C.E.R.T. at Baroda from 24th to 31st August, 1973

- (2) Shri M. M. Chokshi Acted as a Judge in the Vijay Padma Elocution Competition organised at the Borsad College of Education.
- (3) Shri M. M. Amin
- Translated a drama 'Sound of Mentals' in Gujarati
 - Worked as a member on the panel for the Handbook of Science for Standard IX to be published by the Gujarat State Text-Book Board
 - Worked as a resource person for Science Syllabus of Standards VIII and IX training Programme for Secondary School Teachers of Baroda District from June to October, 1973.
- (4) Shri S. R. Patel Attended the United School International Seminar on Teaching about U.N. in Asian Countries, held at New Delhi, 10th to 15th December, 1973
- (5) Shri M. C. Joshi Attended the Rehabilitation Camp conducted by the N.S.S. from 15th to 22nd November, 1973.

5. School Library

Books worth Rs. 775/- were added while some books worth Rs. 1000/- were written off during the year.

6. School Laboratory

Equipment worth Rs. 199-80 was added during the year bringing the total cost from Rs. 13,617-34 to Rs. 13,817-14 at the end of March 1974.

7. Experiments and Activities

- The pupils of Standard IX organised a small exhibition of coins
- The pupils of Standard IX exhibited their project on Social Studies and English (active and passive voice and story-writing)
- The School published a magazine
- Fifty pupils of the School went on an educational tour to Kashmir
- Pupils of the school contributed Rs. 50/- by way of buying the flags issued by Kshaya Nivarana Samiti.

8. Results of Examination

(1) 51 Pupils appeared at the S.S.C. Examination held in March, 1973. The result was 94%. Ch. Pankaj Parikh stood 6th in Baroda Centre and got the

prize of Rs. 150/- for obtaining the highest number of marks in Physics-Chemistry at the S.S.C. Examination.

(2) The pupils of the school appeared at the following external examinations:

Examination	Result in Percentage
(i) Elementary Drawing Grade Examination	66%
(ii) Intermediate Drawing Grade Examination	81%
(iii) Shishta Vachan	100%
(iv) Prarambhika	100%
(v) Aswad	87%
(vi) Hindi Examinations:	
(a) Balpothi	100%
(b) Paheli	100%
(c) Dusari	60%
(d) Tisari	50%

9. Award and Prizes

(1) Awards in Fine Arts:

Name	Standard	Award/Prize
(i) Chi. Rakesh Patel	V	Soviet Land Nehru Award in Drawing Competition and a free trip to Arket in U.S.S.R. for one month
(ii) Chi. Dip Patel	XI	A Prize in Shankars Drawing Competition
(iii) Chi. Chetan Rana	IX	A Prize for his Picture at the International Child Art Competition organized by the UNESCO
(iv) Chi. Sanjiv Desai	IX	Third Prize in Light Music Competition organised by the U.S.O. Conference, Delhi
(v) Chi. Putil Patel	IX	Merit Certificates in Art Competition held at U.S.O. Conference at Delhi
(vi) Chi. Bela Dixit	X	
(vii) Chi. Ami Patel	IX	Merit Certificate in Solo Duna at U.S.O. Conference, Delhi
(viii) Chi. Arif Malek	I	Prize in Painting Competition organised by Lalit Kala Akademy, Gujarat

Name	Standard	Award/Prize
(ix) Chi. Hitesh Rana	IV	First Prize in All India Competition sponsored by Child Art Club started in memory of Late Lal Bahadur Shastri
(x) Chi. Santosh Shah	IV	Cash Prize of Rs. 10/- at the Extempore Drawing Competition sponsored by the Baroda Municipal Corporation
(2) Award in Sports:		
(i) Chi. Manoj Mehta	XI	Five Silver Medals and Prizes in Swimming Competition sponsored by Hari Ohm
(ii) Chi. Puran Patel	X	
(iii) Chi. Neeta Kothari	IX	
(iv) Chi. Divyesh Patel	VII	
(v) Chi. Ajay Bhatt	XI	Were selected to play Basket Ball in the team of Gujarat State
(vi) Chi. Pradip Kulshrestha	XI	
(vii) Chi. Ashish Shah	X	Was selected to play Table Tennis at the State level

About 50 pupils of the School participated in Baroda District Madhyastha Kreedha Mandal and won Twenty-two prizes in various games. The School achieved the honour of 'Runners up'.

(3) Awards in Debates:

(i) Chi. Ashish Shah	X	(a) Second Prize in Elocution Competition organised by Secondary Youth Association (b) Third Prize in the Elocution Competition organised under the Auspices of National Library Week
(ii) Chi. Anurag Buch	X	Merit Certificates in Hindi and English. Elocution Competitions respectively, U.S.O. Conference, Delhi
(iii) Chi. Vandanna Mehta	X	

10. Other Events

(1) A programme of Classical Dances by the old students of the School was organised to collect Flood Relief Fund

(2) Old students Association presented an entertainment programme on 31st March, 1974.

(3) The following persons were invited to visit the School and address the students:

Name	Topic
(i) Shri Mulraj Rajda	Drama
(ii) Shri Chhotubhai Bhatt	Physical Education
(iii) Dr. V. K. Desai	Beware of Blindness

CHAPTER XI—FACULTY OF COMMERCE

1. Courses of Studies

There is provision for the following courses:

- (1) Ph.D. Banking, Business Finance, Business Administration, Commerce, Co-operation and Economics.
- (2) M.Com. Principles of Management, Human Relations in Management, Production Management, Marketing, Financial Management, Management Accounting, Managerial Economics, Statistical Methods, International Trade, Industry and Labour with special reference to India, Advanced Accountancy and Accounting Theory, Taxation, Organised Markets, Co-operation, Transport, Economics of Agriculture with special reference to India, International Banking and Foreign Exchange problems
- (3) B.Com. Accounting and Auditing, Banking, Cotton Industry, Co-operation, Public Finance, Advanced Statistics, Transport, Business Management
- (4) Post-graduate Diploma Banking; Co-operation
- (5) Under-graduate Diploma Co-operation

2. Number of Students

The classwise enrolment of students during the year 1973-74 is as under:

Class	Men Students	Women Students	Total
(1) Diploma in Co-operation (Under-graduate)	16	2	18
(2) F.Y.B.Com.	612	245	857
(3) S.Y.B.Com.	613	260	873
(4) T.Y.B.Com.	706	167	873
(5) Post-graduate Diploma in Banking	52	18	70
(6) Post-graduate Diploma in Co-operation	5	6	11
(7) M.Com.—Part I	190	24	214
(8) M.Com.—Part II	49	3	52
(9) Ph.D.	4	1	5
Total	2247	726	2973

3. Staff

(a) Present Position:

The staff of the Faculty consisted of 2 Professors, 8 Readers, 17 Lecturers, 6 Part-time Lecturers, 8 Class III and 15 Class IV employees as on 31st March, 1974. The Department of English, Law, Mathematics and Statistics made arrangements for teaching of the subjects of English, Mercantile Law, Mathematics and Statistics respectively. Some members of the staff of this Faculty had teaching assignment in the Faculty of Technology and Engineering, Faculty of Law and the Polytechnic.

(b) New Appointments:

Shri P. R. Pancholi as Lecturer in Business Economics.

4. Professional Growth of the Staff

(a) Publication of Articles:|Papers

Name of the Staff member	Title	Name of the Journal wherein published with month of publication
(1) Dr. H. L. Dholakia	Role of Cotton Corporation of India as a channel of distribution	Textile Industry and Trade Journal, May-June, 1973
(2) Shri G. R. Shah	(i) Set off and carried forward of losses under Income Tax Act	Eastern Economists, August, 1973
	(ii) Simplification of Income Tax Law and Tax Procedure	Institute of Chartered Accountant, New Delhi, January, 1974

(b) Publication of Books:

(1) Shri K.M. Dharma and Kum. N. R. Amin	Business Organisation and Management	Bindu Publishing House, Baroda, October, 1973
(2) Smt. B. H. Elavia	Co-operation—Part I (Gujarati)	University Granth Nirman Board, Gujarat State, September, 1973
(3) Shri C. S. Rathod	Co-operation—Vol. II, (On Foreign Co-operative Movement)	University Books Production Board, Gujarat State Ahmedabad, July, 1973
(4) Shri A. G. Sandhe	Lectures on Commerce (2nd Edition)	Bindu Publishing House, Baroda, September, 1973
(5) Shri M. M. Shah	Double Entry Book Keeping—(2nd Edition)	Self, January, 1974

5. Library

The University Library provides library and reading room facilities to the students and teachers of the Faculty.

6. Co-curricular Activities

Besides the Faculty Students' Association, the students of the Faculty organised the following Associations:

- (i) Economic Students' Association, (ii) Banking Students' Association, (iii) Accountancy Students' Association and (iv) Business Management Students' Association.

The Associations arranged talks, debates and essay competitions.

CHAPTER XII—FACULTY OF MEDICINE

(A) MEDICAL COLLEGE

1. Courses of Studies

The College provides instruction in courses leading to the M.B.B.S. degree as well as in the following Post-graduate degrees and diplomas :

(1) Post-graduate Degrees :

Subjects

- (a) M.D. Anaesthesia, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Pharmacology, Physiology, Preventive and Social Medicine, Radiology.
- (b) M.S. Anatomy, E.N.T., Ophthalmology, Orthopaedic and Surgery
- (c) Ph.D. Anatomy, Bacteriology, Bio-Chemistry, Parasitology, Pathology, Pharmacology and Physiology
- (d) M.Sc. Anatomy, Bio-Chemistry, Microbiology (Bacteriology), Pharmacology and Physiology

(2) Post-graduate Diplomas :

- D.A. Diploma in Anaesthesia
- D.C.P. Diploma in Clinical Pathology
- D.G.O. Diploma in Obstetrics and Gynaecology
- D.L. & O. Diploma in Laryngology and Otology
- D.M.R. & E. Diploma in Medical Radiology and Electrolgy
- D.O. Diploma in Ophthalmology
- D.C.H. Diploma in Child Health
- D.V. & D. Diploma in Venereal Diseases
- T.D.D. Diploma in Tuberculosis Diseases

2. Number of Students

(1) Degree :

M.B.B.S.	Men	Women	Total
1st year	132	19	151
2nd year	143	15	158
3rd year	118	22	140
4th year	111	15	126
5th year	51	5	56
Total	555	76	631

(2) *Post-graduate Diploma :*

	Men	Women	Total
D.A.	8	4	12
D.C.P.	3	2	5
D.G.O.	6	8	14
D.L. & O	6	—	6
D.M.R.E.	2	—	2
D.O.	2	2	4
D.C.H.	6	2	8
T.D.D.	3	—	3
D.V.D.	2	—	2
Total	38	18	56

(3) *Post-graduate Degrees :*

M.D.	15	20	35
M.S.	21	2	23
M.Sc.	20	8	28
Ph.D.	4	1	5
Total	60	31	91
Grand Total	663	125	778

3. Staff

(a) *Present Position :*

The staff of the College consisted of a Dean, 25 Professors, 24 Assistant Professors, 28 Junior Lecturers, 15 other Gazetted Staff, 10 Honorary Professors, 9 Honorary Assistant Professors, 3 Honorary Part-time Assistant Professors, 3 Part-time Junior Lecturers, 3 Full-time Surgeons/Physicians, 98 Class III and 80 Class IV employees.

(b) *New Appointments :*

- | | |
|-----------------------------|--|
| (i) Dr. R. K. Doshi | } Junior Lecturers in Pathology |
| (ii) Dr. (Kum.) K. R. Patel | |
| (iii) Dr. B. B. L. Mathur | Professor of Pathology, transferred from M. P. Shah, Medical College, Jamnagar |
| (iv) Dr. P. V. Prabhune | Professor of Pathology transferred from Jamnagar |
| (v) Dr. (Kum.) M. N. Hazara | Associate Professor of Obstetrics and Gynaecology |

(vi) Dr. (Kum.) M. J. Kikani Junior Lecturer in Anaesthesia transferred from Surat

(c) *Teachers upgraded to Higher Positions :*

- (i) Dr. D. B. Vyas Assistant Professor of Preventive and Social Medicine
- (ii) Dr. A. B. Khurana Professor of Psychiatry
- (iii) Dr. (Kum.) R. E. Vakil Professor of E.N.T.
- (iv) Dr. S. N. Sharma Professor of Plastic Surgery
- (d) *Teachers who left :*
- (i) Dr. N. B. Vasavada Assistant Professor, Bio-Chemistry. transferred
- (ii) Dr. M. R. Manchandia Junior Lecturer, Pharmacology transferred
- (iii) Dr. U. L. Deoskar Junior Lecturer, Pathology
- (iv) Dr. (Smt.) U. R. Vasa Junior Lecturer, Pathology
- (v) Dr. P. B. Roy Professor of Pathology transferred
- (vi) Dr. B. R. Joglekar Assistant Professor, Bacteriology transferred
- (vii) Dr. B. H. Oza Assistant Professor, Medicine
- (viii) Dr. (Smt.) R. B. Vyas Assistant Professor, Obstetrics and Gynaecology
- (ix) Dr. (Kum.) U. S. Shah Junior Lecturer, Obstetrics and Gynaecology
- (x) Dr. A. S. Chikarmane Professor of Paediatrics
- (xi) Dr. (Smt.) A. R. Rathod Junior Lecturer, Anaesthesia
- (xii) Dr. M. S. Talsania Junior Lecturer, Radiology

4. Professional Growth of the Staff :

(a) *Publication of Articles/Papers*

Author	Title	Journal
(1) Dr. C. P. Munshi	(i) Antazoline in Cardiac Arrhythmias	Current Medical Practice, 17, 267-271, 1973
	(ii) Medical Profile of Sports	Silver Jubilee Souvenir of Sports, M. S. University
	(iii) Diagnosis	Journal of Indian Medical Association, Vol. 61, No. 6, 16 September, 1973, pp. 254-257.
(2) Dr. A. B. Kothari	(i) Attack on Cancer	—
	(ii) All Gujarat Surgeons Convention Souvenir	—

Authors	Title	Journal
	(iii) Monthly Journal 'Medicine and Surgery'	
(3) Dr. H. C. Srivastava	Formation and fate of actochord sheath in chick embryos	Journal of Anatomy Section, India, 1973, Vol. 22, No. 2, 53-60.
(4) Drs. A. S. Chickramane, U. N. Betkurkar Y. J. Vasavada, P. T. Acharya and A. R. Mehta	(i) Evaluation of Plasma amino-grams in assessment of nutritional status of mothers and new borns with special reference to low birth weight babies	Indian Paediatrics, IX, 79, 1973.
(5) Drs. O. D. Gulati, H. M. Parekh, D. L. Panchal and Shri S. S. Karbhari	Antiinflammatory activity of Guggel	Journal of Rheumatism 8, 83, 1973.
(6) Drs. V. R. Dhumal and O. D. Gulati	Effect on body temperature in dogs of perfusion of Cerebral Ventricles with artificial C. S. F. deficient in calcium or containing excess of sodium or calcium	Br. J. Pharmacology, December, 1973.
(7) Drs. C. M. Prasad, D. S. Shah and O. D. Gulati	Some factors affecting the neurone blocking action of Guanethidine; Xyl-choline, bretylium and deorisoquin	Jap. J. Pharmacology, 23; 805, 1973
(8) Drs. O. D. Gulati, B. P. Mathew, H. M. Parikh and V. S. R. Krishnamurthy	Data-adrenergic receptor of rabbit thoracic sorta in relation to age	Jap. J. Pharmacology, 23; 259, 1973

Authors	Title	Journal
(9) Drs. G. P. Sethe & O. D. Gulati	Analysis of the mode of action of some nicotinic blocking drugs	Jap. J. Pharmacology, 23; 437, 1973
(10) Drs. O. D. Gulati, H. M. Parikh and P. R. Raghunath	Further studies on the alpha-adrenoceptor blocking action of beta-adrenoceptor blocking agents	Eur. J. Pharmacology, 22; 196, 1973
(11) Drs. O. D. Gulati, Renu Makol and D. S. Shah	Some characteristics of the adrenergic neurone blocking action of dehydroemetine	Eur. J. Pharmacology, 48; 314, 1973
(12) Drs. C. P. Munshi and O. D. Gulati	Antazoline in Cardiac arrhythmias	Current Medicine Practice 17; 267, 1973
(13) Dr. R. V. Bhatt	(i) Studies in iron absorption with addition of sodium bicarbonete	Mediscope, 16; 75, 1973 May
	(ii) Heartburn in Pregnancy	Mediscope, 16; 110, 1973 June
	(iii) Criminal abortions in Western India	Journal Obstt. and Gyn. Ind. 23; 243, 1973 June
	(iv) Reduction of Reaction to Ironextran Complex with use of Chlorophin	Journal Obstt. and Gyn. Ind. 23; 274, 1973 June
	(v) Use of Parenthel ironextran, Folic acid and B12 in nutritional anemia	J. Obstt. Gyn. Ind. 23; 277, 1973 June
	(vi) Studies on iron absorption— Experience with new Iron preparation (Elyfu)	J. Ass. Phy. Ind. 21; 435, 1973 May
	(vii) Outpatient Termination of Pregnancy— Scope & Limitation	The Indian Practitioner 26; 335, 1973 July

Author	Title	Journal
	(viii) Pattern of Reproduction-Changing Trends	J. Obst. Gyn. Ind. 23: 397: 1973 August
	(ix) Studies in Iron absorption with New iron Preparation	J. Obst. Gyn Ind. 23: 659: 1973
(14) Dr. (Smt.) N. B. Swami	Rupture of Uterus during pregnancy following Tuboplasty	Journal of Obst. and Gyn. of India, Vol. XXIII No. 3, June, 1973
(15) Dr. V. P. Vaishnav and Smt. Nathen I.	Serum heptoglobin by chemical methods in normal persons	Ind. Journal Med. Sciences, 27: 601-602: 1973
(16) Sarvashri A. G. Nanivadekar, N. N. Wig, A. B. Khurana, A. S. Master and S. S. Kulkarni	A multicentre investigation of Lorazepam in anxiety newrosis	Current Therapeutic Research (U.S.A.) 15, 7 (July) 500-509 1973

(b) Papers presented at Conferences/Seminars etc.

Name of the Teacher	Conference, Seminar etc.	Paper read or presented
(1) Dr. M. A. Patel	Gujarat Surgeons Conference, 26th November, 1973	'Cross Ectopia' Kidney
(2) Dr. C. P. Munshi	(i) First All Gujarat Physicians Convention at Ahmedabad December, 1973	(i) Management of Chr-Renal failure
		(ii) Shock in acute Myocardial Infraction
	(ii) Symposium at the G. P. College	Diuretics, Management of Myocardial Infarction and intensive cardiac care
	(iii) Gujarat State Medical conference at Billimora	Chairman of Panel Discussion on Assorted Medical Topics

Name of the Teacher	Conference Seminar etc.	Paper read or presented
(3) Dr. P. M. Vaidya	(i) First Convention of Physicians of Gujarat at Ahmedabad, December, 1973	Peritoneoscopy as a diagnostic tool
(4) Dr. A. B. Kothari	(i) All Gujarat Surgeon's Conference on 25th November, 1973	Attended
	(ii) I.N.A. Conference at Hubli, 24th to 26th December, 1973	Unusual abdominal Swellings
	(iii) Symposium on Recent advances in Surgery	Finger Vagotomy and recent trends in Duodenal ulcer surgery
	(iv) Scientific Session of Gujarat State Medical Conference at Billimora, May 1973	Attended
(5) Dr. K. N. Shah	All Gujarat Surgeons Conference, December, 1973	Attended
(6) Dr. G. V. Merchant	All India Orthopaedic Conference at Poona August, 1973	Attended
(7) Dr. S. R. Trivedi		
(8) Dr. K. G. S. Nair	Annual Conference of Indian Academy of Pediatrics, Kanpur	Gastric acidity and electrolyte levels in protein caloric malnutrition
(9) Dr. R. V. Bhatt	(i) 17th All India Congress of Obst. & Gyn. at Agra 3, 4, 5th February, 1974	(i) Pregnancy and Burns
		(ii) Pyrosis in Pregnancy
		(iii) Weight changes in Post Partum Period
		(iv) Out patient Termination of Pregnancy

Name of the Teacher	Conference, Seminar etc.	Paper read or presented
(10) Dr. V. P. Vaishnav	(ii) W.H.O. meeting on 'Internship Training' at Pondicherry 29th January to 2nd February, 1974	Evaluation of Internship Programme in Baroda
(11) Dr. B. B. L. Mathur	All India Surgical Conference at Baroda 9th November, 1973	Primary immunodeficiency disorders
(12) Dr. A. B. Khorana	24th Annual Meeting of the Indian Association of Pathologists and Microbiologists at Madras, December, 1973	Cirrhosis of Liver—a Clinico-pathological study
	25th Annual Conference of Indian Psychiatric Society, Bangalore, 10th to 13th January, 1974	Psychological Complications associated with sterilisation in females (Tubectomy)

(c) Participation of Inservice and other Programmes :

Name of the Teacher	Programme	Capacity in which participated
(1) Dr. C. P. Munshi	Inspection of examination and facilities for teaching of post-graduate medical qualifications of M. D. (General Medicine) by the Shivaji University at Miraj Medical College in May, 1974 on behalf of Medical Council of India	One Member Inspection Committee
(2) Dr. A. B. Kothari	(i) Indian Medical Association (ii) Gujarat Medical Council	Committee member Expert member
(3) Dr. M. A. Patel	Rotary District (1973-74)	306 Governor

(d) Talks :

Name of the Teacher	Institution	Topic
Dr. R. V. Bhatt	Post-graduate Institute of Medical Research, Chandigarh	(i) Our experience with Ironextrar I. V. in the deficiency anemia (ii) Maternal advisory service in rural areas (iii) Illegal abortion in India

(e) Research Work :

Name of the Teacher	Research Project
(1) Dr. (Smt.) N. B. Swami	(i) Study of Electrolyte Values in normal and toxemia pregnancy (ii) Studies on Ovulation during lactation
(2) Dr. H. C. Srivastava	(i) Development of routine in Chick (Completed) (ii) Localisation of the neurones of the nerves of Bruchial plexus albino rat by Cholinesterase method (in progress) (iii) Development of C left palate in albino rat (in progress) (iv) Post natal development of submaxillary gland in albino rat (in progress)
(3) Shri P. B. Shah	Studies on acid base and electrolyte status of the neonatal infant (completed for Ph.D.)
(4) Shri S. C. Parikh	Studies on Carbohydratic metabolism in the neonatal infant (completed for Ph.D.)
(5) Shri A. H. Mehta	Studies on the effect of maternal protein malnutrition on the growth and nutritional status of foetus and neonatal infant (completed for Ph.D.)
(6) Dr. K. G. S. Nair	Study of the effects of maternal anemia on the nutritional status of the neonatal infant (completed)
(7) Shri K. N. Thakore	A comparative study of Vitamin A and B etc. a Carotene levels in mothers at delivery and their neonates (completed)
(8) Kum. Alka Murdeshwar	Studies on protein metabolism in hypoproteinemia status in pediatric practice (Completed)

<i>Name of the Teacher</i>	<i>Research Project</i>
(9) Dr. N. B. Vasavada	(i) Studies on direct and indirect fractions of Bilirubin in liver diseases (in progress) (ii) Comparison of Cholesterol estimation by two methods by subphosalicylic acid and Ferric Chloride Reagent (in progress)
(10) Drs. P. T. Acharya, D. H. Trivedi, D. B. Vvas and Joshi	Studies on biochemical and epidemiological aspects of an outbreak of epidemic of infective hepatitis in Nurses Hospital S. S. G. Hospital.
(11) Dr. M. L. Pai	Studies on Mucopolysaccharides in Gastric Decretion (Completed—financed by I.C.M.R.)
(12) Dr. S. Srinivasan	(i) Studies on lysosomal Engymes and their action of Cytoplasmic substances (Completed—financed by I.C.M.R.). (ii) Studies on lysosomal Enzymes with special reference to metabolism of Glycoproteins (In progress). (iii) Induced trauma in normal (a) Diabetic animals and the role of glucocorticoids and insulin in wound healing (b) Metabolism of quinazoline derivatives (In progress)
(13) Drs. O. D. Gulati and V. R. Dhumal	Temperature Regulation
(14) Drs. O. D. Gulati and D. S. Shah	Uptake of amines
(15) Drs. D. S. Shah and O. D. Gulati	Receptors in relation to age and temperature
(16) Staff of the Department of Pharmacology	(i) Uptake of amines in different tissues of goat (In progress—financed by C. S. I. R.) (ii) Uptake of Noradranaline by Tissue (In progress—financed by C.S.I.R.)
(17) Dr. R. V. Bhatt	(i) Survey of Heart burn in Pregnancy (completed) (ii) Comparison of tubelignations done in camp set up with Hospital set up. (Completed)

<i>Name of the Teacher</i>	<i>Research Project</i>
	(iii) Studies in Menstrual Regulation. (Completed) (iv) Evaluation of various methods for second trimester terminations. (v) Use of Prostaglandi in induced abortions and induction of labour. (In progress) (vi) Studies in iron deficiency anaemia. (In progress)
(18) Dr. (Smt.) N. B. Swami	Immediate and delayed post-operative complication of hystrectomy (Vaginal and abdominal). (In progress—financed by Gujarat Government)
(19) Kum. V. P. Gokani and Dr. V. P. Vaishnav	Burns and Burns Sepsis (Completed)
(20) Kum. P. N. Quango and Dr. V. P. Vaishnav	Surgery of Leprosy, (during the Mobile Hospital at Deddiapada 16-11-1973 to 16-12-1973) (Completed)
(21) Shri S. K. Trivedi and Drs. V. P. Vaishnav & S. S. Tilak	Correlation of the histopathological types of Leprosy and the immunological response. (In progress)
(22) Kum. Y. N. Patel & Drs. S. S. Tilak and P. B. Roy	Establishment of Oral Bacterial flora since birth (In progress).
(23) Drs. R. K. Doshi, Sheth and P. B. Roy	Bacteriology of Pyogenic Conjunctivities (In progress).
(24) Drs. D. D. Dharkar & V. P. Vaishnav	Adnexal tumours of Skin (Completed)
(25) Drs. (Kum.) N. B. Mehta, Usha Modi & V. P. Vaishnav	Anaemias of infancy and Childhood (Completed)
(26) Dr. S. S. Tilak and Others	(i) Development of Bacterial flora in the new born (In progress) (ii) Emphysema—Lungs (In progress) (iii) Correlation of Histopathology and Immunology of leprosy (In progress)

Name of the Teacher	Research Project
(27) Dr. A. B. Khorana	(i) A Multi Centre Investigation of Lorazepam in anxiety neurosis (Completed) (ii) Psychological Complication associated with sterilization in females (Completed—financed by U.G.C.) (iii) Lorazepam in psychosomatic disorders (In progress) (iv) Go-3315-A major tranquilizer in the treatment of schizophrenon (In progress) (v) Attempted Suicide, a bio-psychosocial approach (In progress)
(28) Dr. P. S. Gupte	Development of rat eye ball (In progress)
(29) Dr. (Kum.) M. R. Varde	Effect of hormone in organ culture (In progress)
(30) Dr. S. K. Dube	Localisation of facial nerve nucleus in rat (In progress)
(31) Dr. D. C. Vyas	Histogenesis of rat soft palate (In progress)
(32) Dr. K. V. Bondre	Organ culture of rat testes in vitro (In progress)
(33) Dr. M. K. Shridharani	Effect of cyproterone acetate on tests of rat (In progress)
(34) Dr. R. V. Limaye	(i) Effect of aspirin on rat foetus (In progress) (ii) Cholinesterase activity of the nucleus of the oculomotor in rat (In progress)
(35) Dr. M. P. Patel	(i) Variations in blood supply of intestine in human cadavers (In progress) (ii) Variations in human lumbar plexus (In progress)

(f) Special Awards:

- (1) Dr. A. B. Kothari (i) Life Fellowship Plaque by the Society of Abdominal Surgeons, Melrose, U.S.A.
(ii) Membership of Collegium International Chilogulae Digestives, Rome
- (2) Dr. G. V. Merchānt Fellowship of N.I.C.O.T.
- (3) Dr. C. P. Munshi (i) Elected as a chairman of the Scientific Committee of the I.M.A. for the fourth consecutive term
(ii) Member of the Editorial Board-Medical Bulletin, Gujarat State, I.M.A.

5. Shri Sayaji General Hospital

The hospital is a teaching institution attached to the Medical College for imparting Clinical instructions to under-graduate students and has a total staff of 1200 employees.

It has 6 Medical, 6 Surgical, 3 Obstetrics and Gynaecology, 2 Paediatrics, One Dental, One E.N.T., 2 Orthopaedics, One Anesthesia and One Psychiatric Unit. The students are posted under these Units for their Clinical training. The total bed strength is 924. Average daily in-patient attendance and O.P.D. attendance for the year 1973-74 was 1063.65 and 1243.61 respectively.

6. Library

The details regarding the average daily attendance of students and teachers in the Library and the Reading Room, and the number of books issued to them are given in the following statement:

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	300
(2) Average number of teachers making use of the Library and/or the Reading Room daily	75
(3) Total number of books issued to students during the year	50,000
(4) Total number of books issued to teachers during the year	5,200

Following are details regarding the stock and expenditure of the Library :

	Number	Cost Rs.
(1) Books (Including Back Nos. of Journals as on 1-4-1973)	16,762	—
(2) Books written off during the Year	—	—
(3) Books as on 31-3-1974	17,208	—
(4) Books added during the Year (including Back Volumes)	446	5,807-15
(5) Journals subscribed during the Year	180	43,000-00
(6) Amount spent on binding during the year		2,554-00
(7) Total amount spent for Library and/or Reading Room		51,361-15

7. Museum, Laboratory, Studios, Workshop etc.

Sr. No.	Item	Cost of equipment as on 1-4-1973 Rs.	Cost of equipment etc. written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment as on 31-3-1974 Rs.
(1)	Museum	4,04,524	—	—	4,04,524
(2)	Laboratories	11,40,667	—	—	11,40,667
(3)	Studio	—	—	—	—
(4)	Workshop	—	—	—	—
	Total	15,45,191	—	—	15,45,191

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

1. 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 Rash-shala and an Out-patient Department. Twenty beds are available for Ayurvedic Clinical Research and inpatient treatment.

2. Library

The total number of books is 2,632.

3. Museum

Fifty groups of available medicinal herbs, each group consisting of 10 drugs according to the pharmacological classification of Charak are arranged and maintained in the Museum. Specimens of minerals and other useful medicines have also been kept. A section of Ayurvedic Pharmacological medicines is also maintained. There are about 1,000 Ayurvedic specimens, 54 herbarium frames, 7 originals of Ayurved Photo frames, 75 specimen jars of fresh herbs preserved in solution, 16 charts and 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 exhibited in the Museum.

Sixty seven Ayurvedic herbs are maintained in the garden for fresh juices and quathas that are used in Pharmacy preparations and clinical trials.

5. Work done in the Unit

(1) *Rash-Shala:*

“Amruta Ghana” is being prepared from *Tinospora cardifolia* in Rash-shala for clinical trial in Amarato (Rheumatoid arthritis) and other joint diseases.

(2) *General Ayurvedic O.P.D.:*

General Ayurvedic Out-patient Department was started from 3-11-1973. During the period of November, 1973 to January, 1974 the following number of patients have received treatment from O.P.D.

Old Patients				
Month	Male	Female	Children	Total
November, 1973	387	156	21	564
December, 1973	445	499	52	996
January, 1974	314	318	26	658

Month	Male	Female	Children	Total
New Patients				
November, 1973	40	18	3	61
December, 1973	26	27	5	58
January, 1974	17	11	3	31

During the three months the total number of patients of research scheme was as under:

Name of Disease	Number of Patients	Remarks
(i) Shirahshool	2	1 patient did not attend the clinic and the other is under treatment.
(ii) Sandhigat Roga	20	These patients came before the selection of drug; so they were given treatment on general lines.
(iii) Hridrog	1	Did not attend the clinic regularly.

(3) Indoor Patient Department:

One patient was admitted for investigation of shirahshool.

(4) Research:

The Unit was started on 19th May, 1973 with the appointment of an Assistant Research Officer.

During the months from May to March, 1974 the following work has been done:

- The proforma of shirahshool was prepared under the guidance of the Project Officer.
- Compilation of proforma for Mocharasa (Bombase mala bericum) and Laxa (coccus lacca) is completed. Mocharash is the remedy of choice for shirahshool.
- List of the medicines was prepared for General Ayurvedic O.P.D.
- General proforma for O.P.D. and I.P.D. with full description of Clinical methods is completed.
- Proformas for Amarata, Vatarakta, Sandhivata, Krothukashirsha, Asthigatvata are completed.
- Classification of various types of decoction usually used in Amavata (Rheumatoid arthritis) from various books of Ayurveda is completed.
- Selection and preparation of the medicine "Amruta" Tinospora carditolia).

6. Method of Clinical Research Work

(a) Selection of Patients:

Normally the patients are selected for I.P.D. from the General Ayurvedic O.P.D. The suspected cases for the scheme will be admitted to the Indoor Patient Department of the S.S.G. Hospital.

(b) Method of the Investigation:

(i) After admission in the hospital, the patients will be examined according to Ayurvedic Method as per proforma and the diagnosis will be established in case of each patient.

(ii) Modern investigation concerning the disease will also be carried out by the respective department of Medical College under the guidance of Dr. C. P. Shah.

(iii) Problems taken up for research

(a) Disease of joints To study the effect of the "Amruta Ghana" in the joint disease.

- (i) Amavata, (ii) Sandhigata vata, (iii) Vatarakta, (iv) Kroshtookshirsha, (v) Asthigata Vata and (vi) Asthimajagata vata

(b) Shirahshool To study the effect of the Mocharas and Laxa in Shirahshool.

(c) Hridroga To study the effect of the Arjuna in Hridroga.

7. Staff Pattern (Revised)

(1) Honorary Head, (2) Project Officer, (3) Honorary Physician, (In Modern Medicines), (4) Research Officer, (5) Assistant Research Officer (Ayurved), (6) Research Assistant (Chemistry), (7) Research Assistant (Ayurved), (8) Pharmacist (Ayurved), (9) Head Clerk, (10) Clerk-cum-Typist, (11) Case Writer, (12) Compounder and (13) Five Class IV Employees.

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Review of Faculty Activities

Students under the Co-operative (Sandwich) Courses started in 1969 in Mechanical, Electrical and Chemical Engineering branches completed their training in December, 1973. The programme was generally thought to be successful and all the trainees secured jobs on completion of the training.

2. Courses of Study

The Faculty provides the following courses:

(i) Post-Graduate Degrees	
M.E. and Ph.D.	Civil, Mechanical, Electrical Engineering
M.Text. Engg.	Textile Engineering
M.Sc.	Applied Physics
(ii) Post-Graduate Diploma	Refrigeration and Air-Conditioning
(iii) B.E.	Civil, Mechanical, Electrical, Chemical, Metallurgical and Electronics Engineering
(iv) B.Text. Engg.	Textile Engineering
(v) B.Text. Tech.	Textile Technology
(vi) B.Arch.	Architecture
(vii) B. Pharm.	Pharmacy
(viii) Post-Diploma Diploma	Refrigeration and Air-Conditioning
(ix) Diploma:	
D.T.C. and D.T.T.	Textile Chemistry and Textile Technology

(b) New Courses:

- (i) A four-and-a-half year Sandwich Pattern Degree Course in Pharmacy leading to the degree of B.Pharm. was introduced from July, 1973.
- (ii) A four-year Part-time Degree Course for Diploma-holders in Civil, Mechanical and Electrical Engineering was introduced from December, 1973.

3. Number of Students

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

	Men	Women	Total number
(a) <i>Diploma:</i>			
Textile Chemistry:			
I Year	31	—	31
II year	30	—	30
III year	100	—	110
S.S.C. 27			
B.Sc. 83			
Textile Technology:			
Pre. T.T.	24	—	24
1st year T.T.	30	—	30
2nd year T.T.	27	—	27
3rd year T.T.	14	—	14
Total	266	—	266
(b) <i>Post-Diploma Diploma:</i>			
Refrigeration and Air-conditioning	8	—	8
Total	8	—	8
(c) <i>Degree:</i>			
B.E. I (CME Ch. Met.)	370	2	372
B.Pharm. I	23	7	30
B.E. II (Civil)	162	1	163
B.E. II (Mech.)	87	—	87
B.E. II (Elec.)	92	1	93
B.E. II (Chem.)	30	—	30
B.E. II (Met.)	56	—	56
B.E. III (Civil)	123	1	124
B.E. III (Mech.)	95	—	95
B.E. III (Elect.)	90	—	90
B.E. III (Chem.)	47	—	47
B.E. III (Met.)	24	—	24
B.E. IV (Civil)	88	—	88
B.E. IV (Mech.)	75	—	75
B.E. IV (Elec.)	50	—	50
B.E. IV (Chem.)	39	—	39
B.E. IV (Met.)	22	—	22
B.E. IV (Electronics)	31	—	31

	Men	Women	Total Number
B.E. V (Civil)	70	—	70
B.E. V (Mech.)	101	—	101
B.E. V (Elec.)	71	2	73
B.E. V (Chem.)	38	—	38
B.E. V (Met.)	29	—	29
B.E. V (Electronics)	14	—	14
Post-B.Sc.			
B.E. I (Electronics)	27	1	28
B.E. II (Electronics)	27	—	27
B.E. III (Electronics)	24	—	24
Textile Engineering & Technology:			
F.Text. Engg. and Tech.	62	—	62
S.Text. Engg.	6	—	6
S.Text. Tech.	34	—	34
T.Text. Engg.	9	—	9
T.Text. Tech.	30	—	30
B.Text. Engg.	19	—	19
B.Text. Tech.	33	1	34
Architecture:			
B.Arch. I year	35	13	48
B.Arch. II year	30	11	41
B.Arch. III year	31	7	38
B.Arch. IV year	27	11	38
B. Arch. V year	37	9	46
Total	2258	67	2325

(d) *Post-Graduate Diploma:*

Refrigeration and Air-Conditioning

8	—	8
Total	8	8

(e) *Post-Graduate Degree:*

Civil Engineering

Public Health Engineering:

Jr. year	—	—	—
Sr. Year	4	—	4

	Men	Women	Total Number
Soil Mechanics:			
Jr. Year	—	—	—
Sr. Year	1	—	1
Highway Engineering:			
Jr. Year	1	—	1
Sr. Year	—	—	—
Hydraulics:			
Jr. Year	—	—	—
Sr. Year	2	—	2
Structural Engg.:			
Jr. Year	6	—	6
Sr. Year	5	—	5
Mechanical Engineering:			
I.C.E.			
Jr. Year	7	—	7
Sr. Year	7	—	7
Production Engineering:			
Jr. Year	5	—	5
Sr. Year	8	—	8
Electrical Engineering:			
Automatic Control Engineering:			
Jr. Year	8	—	8
Sr. Year	8	1	9
Electrical Power Engineering:			
Jr. Year	4	—	4
Sr. Year	7	—	7
M.Text. Engineering:			
Jr. Year	6	—	6
Sr. Year	5	—	5
M.Sc. Applied Physics	4	—	4
Total	88	1	89

	Men	Women	Total Number
Summary			
(a) Diploma	266	—	266
(b) Post-Diploma Diploma	8	—	8
(c) Degree	2258	67	2325
(d) Post-Graduate Diploma	8	—	8
(e) Post-Graduate Degree	88	1	89
(f) Ph.D.	—	—	—
Grand Total	2628	68	2696

4. Staff

(a) Present Position:

During the year the staff of the Faculty consisted of 17 Professors (5 of whom are in the Senior scale), 39 Readers, 117 Lecturers, 19 Senior Instructors, 1 Junior Instructor, 12 Teaching Assistants, 1 Visiting Professor, 7 Visiting Lecturers, 169 Class III and 94 Class IV employees.

(b) New appointments:

- (1) Shri S. V. Deshpande, Lecturer in Architecture
- (2) Smt. Sheela Puri, Lecturer in English
- (3) Shri S. K. Sing, Lecturer in Economics
- (4) Shri A. R. Shah, Lecturer in Applied Mechanics
- (5) Shri A. S. Chirmade, Lecturer in Applied Mechanics
- (6) Shri George Kurian, Lecturer in Chemistry
- (7) Shri C. J. Jejurkar, Lecturer in Chemistry
- (8) Shri J. R. Pandya, Lecturer in Chemistry
- (9) Shri Y. K. Joshi, Lecturer in Chemistry

(c) Teachers upgraded to higher positions:

- (1) Dr. D. C. Kantawala from Reader in Civil Engineering to Professor of Civil Engineering
- (2) Shri S. G. Shah from Lecturer in Electrical Engineering to Reader in Electrical Engineering
- (3) Shri A. K. Aggarwal from Lecturer in Electrical Engineering to Reader in Electrical Engineering
- (4) Shri K. K. Thakkar from Lecturer in Electrical Engineering to Reader in Electrical Engineering
- (5) Shri S. A. Thakur, from Lecturer in Electrical Engineering to Reader in Electrical Engineering

- (6) Shri A. S. Loiwal from Lecturer in Mechanical Engineering to Reader in Mechanical Engineering
- (7) Dr. T. R. Joshi from Assistant Lecturer in Physics to Lecturer in Physics
- (8) Shri M. R. Thakkar, Lecturer in Civil Engineering to Reader and Head of Civil Engineering in the Polytechnic
- (9) Dr. A. M. Talati from Reader in Chemistry to Professor of Chemistry
- (10) Shri K. L. Shah from Senior Instructor in Mechanical Engineering to Lecturer in Mechanical Engineering.
- (11) Shri K. S. Patel from Senior Instructor in Electrical Engineering to Lecturer in Electrical Engineering
- (12) Shri D. N. Patel from Senior Instructor in Mechanical Engineering to Lecturer in Mechanical Engineering.

(d) Teachers who left during the year:

- (1) Professor R. M. Dave, Professor of Civil Engineering resigned to accept the post of Principal, Birla Engineering College at Vallabh Vidyanagar
- (2) Shri K. V. Jaradi, Lecturer in Civil Engineering resigned for better prospects.
- (3) Shri N. Laxminarayan, Lecturer in Chemical Engineering resigned for better prospects.
- (4) Shri B. P. Sarkar, Lecturer in Textile Engineering resigned for better prospects.
- (5) Professor J. S. Dave, Professor of Chemistry retired from the University, but is now working in the Faculty of Science under the U.G.C. scheme of utilization of the services of Retired Teachers.

5. Professional Growth of the Staff

(a) Publication of Articles/Papers

Sr.No.	Name	Title	Where published
(1)	Dr. D. C. Kantawala, Shri K. D. Sharma, Shri N. M. Bhatt and Shri M. R. S. Iyengar	Studies on Aerobic cultivation of yeast to reduce pollution potential of distillery wastes	Indian Journal of Environmental Health, Vol. 15, No. 2, 1973
(2)	Shri M. S. Sundar-murti	Thermal characteristics of magnetite asbestos system	Transactions and Journal of British Ceramic Society, Vol. 72, No. 4, pp. 173-175, June, 1973

Sr.No.	Name	Title	Where published
(3)	Prof. R. V. Joshi and Dr. T. R. Joshi	Intensity of Glow peak in NaCl: Ti as functions of Ti concentrations	Zeits fur. Phy. Chem. Neue Folg 83, 1973
(4)	Dr. R. K. Padmini Agarwal and Shri J. R. Otia	Ultrasonic Vel. and other parameters in a Nematic Liquid crystal	Indian J. Pure and App. Physics, Vol. 11, March, 1973
(5)	Dr. R. K. L. Padmini Agarwal and Shri K. K. Gopinathan	Elastic properties of Bismuth Antimony alloys	J. Phy. D. Appl. Phys. Vol. 7, No. 1, 1974,
(6)	Dr. A. M. Talati and Shri V. N. Mistry	(i) Chelate Polymers of 2, 5, dihydroxy p-benzo-quinone and amines with cobalt	Indian J. Chem., 1973, 11, 296
		(ii) Chelate Polymers of 5, 8 dihydroxy-quinazalene and 2, 5-dihydroxy p-benzo-quinone	J. Indian Chem. Soc., 1973, 50, 225
		(iii) Compensation effect in semi-conductivity metal organic systems	Curr. Sci., 1973, 42 (14), 513
(7)	Dr. A. M. Talati, Shri R. N. Kapadia, Shri T. I. Patel and Shri K. B. Shah	Transition metal complexes of vicoxime ketone and diamine	J. Indian Chem. Soc., 1973, 50, 344
(8)	Dr. A. M. Talati and Shri R. N. Kapadia	(i) Transition metal chelates of salicyldehyde and p-phenylene diamine	J. Indian Chem. Soc., 1973, 50, 89
		(ii) Cobalt and nickel complexes of oximeimine and oxime-thiosemi-carbazone	Indian J. Chem., 1973, 11, 836
(9)	Dr. A. M. Talati, Shri V. N. Mistry and Shri H. V. Raval	Halogen adducts of copper glyoximate	Vidya J. Guj. Univ., 1973, 57, 54

Sr.No.	Name	Title	Where published
(10)	Prof. J. S. Dave and Shri R. A. Vora	Mesomorphic behaviour of the chelestery lesters III; substituted benzoates of cholesterol	Indian J. Chem., 1973, 11
(11)	Dr. J. M. Trivedi and Shri C. M. Mehta	(i) Interaction of Atoxyl with Mono Halogen Substituted Amides of Acetoacetic acid, and (b) Gynacetic acid; Synthesis of Organo Arsenicals	J. Indian Chem. Soc., 1973, 56
		(ii) Synthesis of Methylene Pis-2, 4-Dihydroxy quinoline	J. Ind. Chem. Soc., 1973, 50, 231
(b) Papers Present at All India Level Seminars, Conferences, etc.:			
Sr. No.	Name of the Teacher	Conference/Seminar	Title of the Paper Presented
(1)	Kum. O. P. Sosma and Prof. R. C. Patel	Institute of Engineers (India), Gauhati	Injection Characteristics of C.I. Engines
(2)	Prof. R. V. Joshi and Dr. T. R. Joshi	Solid State Physics Conference, I. I. T., Madras	The luminescence of heavily doped KCL:TI Phosphars
(3)	Dr. R. K. L. Padmini Agarwal	International Liquid Crystal Conference, Raman Research Institute, Bangalore	Ultrasonic Studies in Mixed Liquid Crystals
(4)	Dr. A. M. Talati and Shri B. V. Shah	Indian Science Congress	Substituted malonic acids Formation of Salts
(5)	Prof. J. S. Dave and Shri R. A. Vora	International Liquid Crystal Conference, Bangalore	Mesomorphic behaviour of Phenyl-ester II p. (p'-n-alkoxy-benzoyloxy) toluenes
(6)	Shri R. M. Pancholi	IV All India Conference of Linguistics at Agra, 18th and 19th October, 1973	Attended

Sr. No.	Name of the Teacher	Conference/Seminar	Title of the Paper Presented
(7)	Prof. D. C. Kantawala jointly with Shri N. M. Bhatt	Sixth Annual Convention of Indian Water Works Association	Mercury and Water

(c) Talks given at different Universities:

Sr.No.	Name of the Teacher	University	Subject of the Lecture
(1)	Shri K. J. Modi	Institute of Engineers Sub-Centre, Vallabh Vidyanagar	Low Temperature Refrigeration
(2)	Prof. C. C. Shah	S. V. Regional Engineering College, Surat	Quasilinearisation and invariant Imbedding

(d) Participation in Inservice and other Programmes:

Sr. No.	Name of the Teacher	Programme	Capacity in which Participated
(1)	Shri R. D. Bhatt	Advanced Bridge Engineering, Summer School held at Madras in May-June, 1973	Participant
(2)	Shri G. B. Sompura	Modern Foundation Design Methods at I.I.T., Kanpur in September-October, 1973	Participant
(3)	Shri G. N. Shah	Pavement Design Methods at Roorkee University in June-July, 1973	Participant
(4)	Shri G. R. Contractor	Training at Voltas Ltd., Bombay under Q.I.P. from 1-4-1973 to 20-4-1973	Teacher Trainee
(5)	Shri G. T. Joshi	Refresher Course, Machine Tools, University of Roorkee, from 1-12-1973 to 28-12-1973	Participant
(6)	Shri D. N. Patel	Refresher Course, Machine Design at I.I.Sc., Bangalore for 6 weeks	Participant

Sr. No.	Name of the Teacher	Programme	Capacity in which Participated
(7)	Prof. R. C. Desai	Visit to the System Science and Technology Centre of the Indian Space Research Organisation at Thumba near Trivendrum for 4 days and two days at Bangalore in June, 1973	Study Tour
(8)	Shri D. K. Basa	Development Work in CO ₂ Process at Steel Cast Bhavnagar (Pt.) Ltd., under Q.I.P. from 24-4-1973 to 23-6-1973	Teacher Trainee
(9)	Shri S. C. Khurana	Training in Heat Treatment Slags at Mahendra and Mahendra (P.) Ltd., Bombay from 16-4-1973 to 23-6-1973	Teacher Trainee
(10)	Shri R. R. Vishwakarma	Training in Corrosion Lab. at Bhabha Atomic Research Centre under U.G.C. Travel Grant from 9th April, 1973 to 8th May, 1973	Teacher Trainee
(11)	Shri P. J. Roychowdhury	Autumn School in Techniques in Metallurgical, Thermodynamics at Benares Hindu University under Q.I.P. from 8-10-1973 to 21-10-1973	Participant
(12)	Shri U. P. Sinha	Winter School in Kinetics of Metallurgical Foundations at I.I.T. Kanpur, under Q.I.P. from 27-12-1973 to 11-1-1974	Participant

(e) Research work done by the teachers of their own without any financial assistance from the University or any outside agencies:

(i) Research work completed:

Name of the teacher	Subject of Research
Professor V. Seshadri, Metallurgical Engineering Department	Rate of Oxidation of Iron through Slag



(ii) *Research Work in Progress:***Civil Engineering Department**

- (1) Prof. O. H. Patel, Shri G. B. Sompura and Shri R. D. Bhatt Survey of (a) Road Construction Techniques and (b) use of specialised highway equipments and machineries for economic and durable roads for Indian conditions. Pavement Design under repeated loads.
- (2) Prof. O. H. Patel, Shri G. B. Sompura and Shri R. D. Bhatt Application of Solid Industrial Wastes as road material.
- (3) Shri G. B. Sompura and Shri R. D. Bhatt Investigations of traffic problems of Nyaymandir Area.
- (4) Prof. O. H. Patel and Shri R. D. Bhatt Pedestrians behaviour at road intersections.
- (5) Shri R. D. Bhatt and Shri D. M. Shah Characteristics of three-dimensional flow over convex and concave weirs.
- (6) Prof. O. H. Patel and Shri P. M. Modi Methods of Destratification of Reservoirs.
- (7) Prof. R. M. Dave and Shri G. S. Parthasarthy Study of equivalent roughness in open channels.
- (8) Shri N. C. Shah Thermal Stratification in Lakes and Ponds. Mixing Characteristics of Wastes Discharged into flowing streams.
- (9) Shri P. M. Modi Effect of sediment on Coefficient of Discharge for overflow weirs.
- (10) Shri J. J. Prajapati Location of critical depth underground water table for seepage from canals.
- (11) Shri P. N. Sutaria Aerobic Cultivation of Yeast and Molds to reduce Pollution Potential of Distillery Wastes.
- (12) Shri A. K. Savani Cultivation of Yeast in Domestic Sewage. Stripping of Ammonia from Fertilizer Wastes.

Metallurgical Engineering Department

- (16) Prof. V. Seshadri and Shri D. K. Basa Foundry Metallurgy influence of Carsil on CO₂/silicate process.
- (17) Prof. V. Seshadri and Shri P. J. Roychowdhury Oxidation of metals and alloys.

- (18) Prof. V. Seshadri and Shri U. P. Sinha Morphology of dendrites during solidification of metals and alloy.
- (19) Prof. V. Seshadri and Shri V. L. Gadgeel Development of substitute materials for hammer tips and toggle seats for jaw crushers.
- (20) Prof. V. Seshadri and Shri S. C. Khurana Differential Thermal Analysis of Ores and Minerals.

Electrical Engineering Department

- (21) Shri K. K. Thakkar Static relay for transmission line protection.
- (22) Shri K. S. Sastri Shift register segments and their use in system identification by cross co-relation.
- (23) Shri S. G. Shah Multi Variable Control Systems.

Applied Physics Department

- (24) Prof. R. V. Joshi Luminescence and colour centres in solids.
- (25) Dr. J. R. Pandya Growth and dislocation of crystals micro-hardness.
- (26) Shri S. G. Shah Spectra of Diatomic molecules.
- (27) Dr. R.K.L. Padmini Agrawal Ultrasonic studies on liquids, liquid crystals, metals and alloys.
- (28) Shri A. D. Dixit Official properties of solids.
- (29) Dr. T. R. Joshi Luminescence Materials.

Applied Chemistry Department

- (30) Prof. A. M. Talati Spectroscopic studies of Metal chelates.
- (31) Shri R. A. Vora Liquid Crystals.

Textile and Allied Industries Research Organisation

- (1) Recently the Textile and Allied Industries Research Organisation has patented Web Super Stripper for Stripping the Web at Higher Speed than that of conventional doffer comb box. Research on the following is on hand:

- (i) Open End Single Rotor Unit,
(ii) Shuttle Accurator,
(iii) Automatic Controls on Sizing Machine,
(iv) Shade-O-Meter,
(v) Open End Spinning for Fine Counts.

The TAIRO has undertaken upto now 40 Research Projects of which 25 are patented and 6 out of these are given for commercial application.

6. Activities of newly established and special type of Centres/Units in the Faculty

Training and Placement Services were set up during the year under review. These services were guided by the Director of Training and Placement.

7. Faculty Union Activities

(1) Under the auspices of the literary association of this Faculty, lectures and talks on various subjects of general and engineering interest by prominent persons were arranged. Students of this Faculty took part in various Inter-Faculty, Inter-University and other Debating and Elocution Contests and won prizes. (2) The students' chapter operating in this Faculty under the general guidance and supervision of the Institution of Engineers, Baroda-sub-Centre screened eleven films of general and technical interest and conducted tours to Refinery, Dhuvaran Thermal Power Station and Ukai Dam. It has its own library consisting mainly of text-books for the benefit of members. (3) The Faculty has a stock of 23 films on various subjects of educational interest and 14 strips of 35 mm films. Every year additional films are taken on loan for use from various organisations. 31 films were shown during the months of July 1973 to January, 1974.

8. Library

The reading room of the Library has a seating accommodation for 130 readers. Books for reference are issued between 8-00 a.m. and 10-00 p.m. on all working days and also on Sundays and Holidays. Books are issued for reading at home between 11-00 a.m. and 5.15 p.m. on all working days and between 11-00 a.m. and 2.45 p.m. on Saturdays.

The details regarding the average daily attendance of students and teachers in the library and/or the reading room and the number of books issued to them are given below:

Particulars	Number
(1) Average numbers of students making use of Library and/or reading room daily	800
(2) Average number of teachers making use of the Library and/or the reading room daily	100
(3) Total number of books issued to students during the year	10,000
(4) Total number of books issued to teachers during the year	3,000

The stock and the expenditure on the library and/or reading room are given below:

Particulars	Books	Bound Periodicals	Cost in Rs.
(1) Books (including back numbers of journals) as on 1-4-1973	43,236	5,531	14,23,917
(2) Books written off during the year	42	—	515
(3) Books added during the year	2,018	605	3,86,142
(4) Books as on 31-3-1974	45,212	6,136	18,09,544
(5) Journals subscribed during the year	220	605	—
(6) Amount spent on binding during the year	—	—	5,000
(7) Total amount spent for Library and/or Reading Room till the end of the year	—	—	18,14,544

9. Museum, Laboratories, Studios, Workshop etc.

Item	Cost of equipment etc. as on 1-4-1973	Cost of equipment written off during the year 1973-74	Cost of equipment added during the year 1973-74	Cost of equipment etc. as on 31-3-1974
	Rs.	Rs.	Rs.	Rs.
Laboratories, Workshops, Studios, etc.	63,18,652	10,303	5,12,747	68,21,096

10. Faculty Publication

Name of the journal	Editor	Month of Publication
Journal of Technology and Engineering	Editorial Board, Faculty of Technology and Engineering	January, July 1973

11. Distinguished Visitors during the year

- (1) Shri R. P. Sharma, Regional Officer, U. S., Educational Foundation in India paid a visit to this Faculty in April, 1973 and addressed the final year students on "Study opportunities in U.S.A."

- (2) Dr. Nayudamma, Director General of C.S.I.R. paid a visit to this Faculty and T.A.I.R.O. in April 1973.
- (3) Mr. Winston C. Bohler of Georgia Institute of Technology visited Textile Engineering Department of this Faculty on 7-6-1973.
- (4) Professor A. K. Mehta, Director of Technical Education with other Government officials visited this Faculty on 11-8-1973 and discussed the proposals on norms and standards of maintenance expenditure in the Engineering Colleges and Polytechnics.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Courses of Studies

The Faculty offers the following courses:

- (1) Ph.D. Art History, Art Criticism, Painting
- (2) M.A. (Fine) Applied Arts, Art History, Art Criticism, Art Education, Graphic Arts, Painting and Sculpture
- (3) Post-graduate Diploma Museology
- (4) B.A. (Fine) Applied Arts, Painting, Sculpture and Art History
- (5) Post-diploma Diploma Applied Arts, Graphic Arts, Painting and Sculpture
- (6) Diploma Applied Arts, Painting and Sculpture
- (7) Certificate Bronze Casting, Lithography, Pottery and Ceramics, Photography, Printing, Process and Block-Making and Woodcrafts

2. Number of Students

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

Year/Class	Men	Women	Total
(a) Certificate:			
1st Year	11	—	11
2nd Year	1	—	1
	12	—	12
(b) Diploma:			
1st Year	35	1	36
2nd Year	23	3	26
3rd Year	21	3	24
4th Year	17	1	18
5th Year	12	—	12
	108	8	116

Year/Class	Men	Women	Total
(c) Post-diploma Diploma :			
Junior	5	—	5
Senior	7	1	8
Total	12	1	13
(d) Degree :			
1st Year	22	13	35
2nd Year	17	14	31
3rd Year	11	5	16
4th Year	6	6	12
5th Year	2	7	9
Total	58	45	103
(e) Post-graduate Diploma :			
Junior	2	—	2
Senior	3	2	5
Total	5	2	7
(f) Post-graduate Degree :			
Junior	7	4	11
Senior	2	2	4
Total	9	6	15
(g) Ph.D. :			
	1	—	1
Grand Total	205	62	267

In addition to the above, there were 26 non-collegiate students, Government scholars, Commonwealth scholars and students from Overseas.

3 Staff

(a) Present Position :

The staff of the Faculty including the Museology Department consisted of 2 Professors (including one in the senior scale), 7 Readers, 20 Lecturers, 2 Assistant Lecturers, 1 Taxidermist, 1 Part-time Photographer, 1 Part-time Instructor, 13 Class III and 18 Class IV employees.

(b) New Appointments :

Shri R. P. Shah as Lecturer in Museology.

4 Professional Growth of the Staff

(a) Publications :

Name of the Teacher	Article/Paper	Name of the Journal wherein published
(1) Prof. K. G. Subramanyan	(i) The Phenomenon of Abanindranath	Abanindranath Tagore Symposium Souvenir
	(ii) The uses of Art Criticism	Lalitkala (Contemporary)
(2) Prof. D. G. Godse	(i) Book "Sakti Saus-thava" on Aesthetics	Book published and won State Award 1972-73
	(ii) Three Act-Drama in Marathi "Kal Gangechya Kathi"	Published in February, 1974
(3) Dr. R. K. Parimoo	The Paintings of the three Tagores Abanindranath Gaganendranath, Rabin-dranath—Chronology and Comparative Study	Book published by the M. S. University with the help of U.G.C. Publication grant, December, 1973
(4) Shri Gulam Mohammed Sheikh	(i) Pablo Picasso	'Uhapoh' (Gujarati) April, 1973 and 'Kankavati' (Gujarati) June, 1973
	(ii) Poems	New writing in India published by Penguins (London) January, 1974
(5) Shri V. H. Bedekar	(i) "Classification of Indian Miniature Painting" "Art in India Today"	Published United Nations of Indian Youth, New Delhi, 1973
	(ii) "Museum in India" "Art in India Today"	Published by United Nations Council of Indian Youth, New Delhi, 1973
	(iii) "Some problems in the identification and classification of	A Commemorative volume in honour of Dr. P. H. Pott, Director,

<i>Name of the Teacher</i>	<i>Article/Paper</i>	<i>Name of the Journal wherein published</i>
	Pahari Painting " Museum and Culture "	National Museum of Ethnology, Leiden, the Netherlands, 1973
(6) Shri R. T. Parikh	(i) Newly discovered Sculpture of Matraka Vaishnavi from Tharad, District Banaskantha, North Gujarat	Jourual of the M. S. University of Baroda, 1973
	(ii) Unique Sculpture of Sakti Ganes of Ucchiste variety from Kumbharia, District Banaskantha, North Gujarat	Journal of the Oriental Institutes, M. S. University of Baroda Vol. No. XXII, No. 3, March, 1973
	(iv) Lecquer Work Industry of Sankheda	Journal of Indian Museum Vol. No. XXIX, 1973
	(iv) The newly discovered bronzes of Matraka Ambica Devi from Bhoral, District Banaskantha, North Gujarat	Journal of the M. S. University of Baroda 1973

(b) *Participation in Inservice and other Programmes :*

(1) The Graphic Arts Department of the Faculty gave facilities for Graphic Art Workshop conducted by the Amrita-Sher-Gill Exhibition Committee. Shree Gulam Mohammed Sheikh organised the Workshop in October-November, 1973.

(2) Shri R. M. Pandya has been assigned the translation in Gujarati of a book " Indian Architecture ", by Percy Brown on behalf of the Indian Council for Historical Research.

(3) Shri Gulam Mohammed Sheikh participated in Exhibition of Indian Arts sent to Eastern Europe by the Indian Council for Cultural Relation, New Delhi in November, 1973. He also participated in a Group Show at New Delhi in March, 1974.

(4) Shri M. D. Pandya participated in Artist Camp organised at Srinagar by the Akademi of Art and Culture and Languages in 1973. He is also appointed as a member on the Scholarship Committee for talented students of Secondary Schools.

(5) Shri G. C. Bhatt was nominated member of the Gujarat State Lalit Kala Akademi.

(6) Dr. Ratan Parimoo was awarded fellowship for a period of six months by the J. D. Rockefeller IIIrd Fund, New York, to observe the teaching major Museum and Gallery Collections. He proceeded to the U.S.A. in January, 1974.

(7) Shri R. M. Pandya under an assignment of Government of India made 14 portraits of National leaders on copper plates to be placed in the " Time Capsules ".

(8) Shri Jeram Patel was also appointed by the Gujarat Government as a member of the Gujarat State Lalitkala Akademi.

(9) Shri V. H. Bedekar gave a talk on " Internal Structure of Documentation for Art Museums, " at the Conference of the Museums Association of India, Mysore in September, 1973. He attended the meeting at Mysore in September 1973 of the Indian National Committee of ICOM. He continued to work as Chairman, National Committee for Museum Education. He was elected as a member of the Executive Committee, Museums Association of Gujarat. He was appointed by the C.S.I.R. as a Member of the Executive Committee of the Visvesvaraya Industrial and Technological Museum, Bangalore. He was invited by the Department of Science and Technology, Government of India to advise on the Biological Sections of its Natural History Museum in New Delhi. He is also appointed as Editor of Studies in Museology from 1st April, 1973.

(10) Shri R. T. Parikh continued to work as the Vice-President of the Museums Association of India and as the Zonal Secretary/(Western Zone) of the National Committee of ICOM. He has been elected as the Hon. Gen. Secretary of the Museums Association of Gujarat. He continued to work as the member of the Editorial Board of the " Studies in Museology ". He attended the annual general meeting of the Museums Association of India held at Mysore in September 1973 and read a paper on " Internal structure of Documentation for Archaeological Collection ".

(c) *Talks :*

(1) Shri H. R. Patel was invited to give lectures/demonstrations in Graphic Art, at the All India Art Teachers' Summer School, Jabalpur.

(d) *Research :*

Shri J. M. Bhatt is working on the Photographic and Pictorial Documentation of Wall paintings Mural & Fresco around the city of Baroda.

5. Exhibitions and other Activities :

- (1) Dr. Ratan Parimoo held a one-man show of Painting at the Pundole Art Gallery Bombay from 5th to 15th November, 1973.
- (2) The Photographs of Sculpture prepared by Shri G. C. Bhatt and Shri R. R. Panchal were included in Lalit Kala Contemporary 1974.
- (3) Kumari Nasreen Mohamedi Ashraf arranged one-man show in Bombay in April, 1973.
- (4) Kumari K. G. Patel arranged her individual independent Exhibition at the Jahangir Art Gallery, Bombay in 1973. She also exhibited in Indian Studio Potters Association in Bombay on 21-3-1974.
- (5) Shri R. M. Pandya organized N.S.S. Hobby Group Camp at Koshina and got 4 murals executed by the Fine Arts volunteers in November-December 1973. He also organised (YAF) Youth against Famine first Camp at Rangpur in April, 1973.
- (6) Shri Gyarsilal Mistry arranged a one man show at Jehangir Art Gallery in October 1973. He repaired the murals at Kirti Mandir, Baroda.
- (7) Shri Jeram Patel arranged one-man-show of his paintings in Bombay and New Delhi in 1973. He also arranged a one-man show of his drawings at Bombay in 1974.
- (8) Shri N. K. Sant organised a camp at Rangpur in April, 1973 on behalf of N.S.S.

6. Faculty Union Activities

- (1) A study tour to Ajanta, Ellora was organised in December 1973-January, 1974.
- (2) The following students and the members of the staff won prizes at various exhibitions :
 - (i) Shri M. S. Makwana Rs. 1,000/- for Painting at the Gujarat State Annual Art Exhibition
 - (ii) Shri Ajit Patel Prizes for Painting at Bombay Art Society and Gujarat State Annual Art Exhibitions
 - (iii) Kum. Kamlesh Hingorani } Prizes for Etching at the Gujarat State Annual Art Exhibition
 - (iv) Kum. Usha Nehru }

- (v) Shri G. C. Bhatt A prize of the Gujarat State Lalit Kala Academy
- (vi) Shri J. J. Narzarg A prize of the All India Fine Arts and Crafts Society, New Delhi
- (vii) Shri Deepak Kannal } A prize of the Gujarat State Lalit Kala Academy
- (viii) Smt. Latika Katt }
- (ix) Shri A. A. Saiyed A Prize for Photograph
- (x) Kum. Usha Nehru } A Prize for Graphics
- (xi) Shri Prayag Chillar }
- (xii) Shri Purshottam Dhumal }
- (xiii) Shri Jeram Patel National Award by the All India Lalit Kala Academy, New Delhi

7. Library

(A) *Books :*

The Library received a grant of Rs. 5,000/- from the University and it has been fully utilised. The following statement gives the details of the acquisitions of the Library during the year 1973-74.

	<i>Books (including back numbers of Journals)</i>	<i>Total value in Rs.</i>
(1) Number at the beginning of the year	5,793	95,603-08
(2) Number added during the year	56	5,142-65
(3) Number at the end of the year	5,849	1,00,745-73

(B) *Periodicals :*

The total number of periodicals and journals subscribed to now stands at 14. The amount spent for this purpose was Rs. 2,149-08. The amount spent for binding was Rs. 477-70.

(c) *Circulation of Books:*

The working hours of the Library are from 11-00 a.m. to 5-00 p.m. The statistics of the use of the Library are given below:

(1) Average number of students making use of the Library	47
(2) Average number of teachers making use of the Library	12
(3) Average number of books issued per day for home-reading	15
(4) Average number of books issued per day for reading on the permises	53

8. Museum, Laboratory, Studio, Workshop etc.

Sr. No.	Item	Cost of Equipment as on 1-4-1973 Rs.	Cost of Equipment written off during the year Rs.	Cost of Equipment added during the year Rs.	Cost of Equipment as on 31-3-1974 Rs.
(1)	Studios and Workshop	3,92,075-00	—	30,100-08	4,22,175-08
(2)	Museology Department	62,381-84	—	—	62,381-84

9. Distinguished Visitors:

- (1) Professor J. Tilakshree, Head of the Department of Sanskrit, University of Ceylon
November, 1973
- (2) Shri Sheikh Abdullah, Ex-Prime Minister of Jammu and Kashmir
November, 1973

CHAPTER XV—FACULTY OF HOME SCIENCE

1. Courses of Studies

There is provision for the following courses in the Faculty:

- (1) B.Sc. (Home), M.Sc. (Home) and Ph.D.
(i) Foods and Nutrition
(ii) Child Development
(iii) Clothing and Textiles
- (2) B.Sc. (Home) and M.Sc. (Home)
(i) Home Management
(ii) Home Science Education and Extension Education
- (3) Post-graduate Diplomas
(i) Nursery School Education
(ii) Dietetics

New Courses introduced during the year:

(1) A Ph.D. Programme of studies in Home Science Education and Extension Education was proposed and is accepted. It will be started from June, 1974.

(2) A new course on 'Basics of Agriculture' for Home Science Extension Educators started with Visiting Lecturers from the Research and Education Unit of the Gujarat Agricultural University located at the Model Farm, Baroda.

(3) The Master's programme was reorganized into a core programme and two optional groups (i) One oriented towards formal higher education and (ii) the second towards informal and extension education. The credit allotments also were revised, increasing the total credits for the Master's degree programme and for the statistics course. A special 'problems course' was introduced at the M.Sc. (Home) level.

(4) Two new courses were introduced by the Home Management Department for the B.Sc. Class—

- (i) "Decision making in Family living" was offered as an elective to all the majors.
- (ii) "Kitchen Planning" was offered to Home Management B.Sc. majors.

Courses modified during the year:

(1) The Undergraduate and Post-graduate Courses in the Child Development (including Post-graduate Diploma Courses in Nursery School Education) have been revised and will be effective from June, 1974.

(2) Optional courses have been introduced for the students of fourth year from the current academic year. M.Sc. Course of Clothing and Textiles has been oriented towards research by introduction of separate research methods course, thereby increasing the total credit to 60.

Some New Experiments began during the year:

(1) Summer School Courses for adults were conducted in this Faculty with the help of the Department of Continuing/Adult Education. Almost all departments offered courses of two or three weeks' duration.

(2) Introduction of optional courses at Undergraduate and Post-graduate levels has been the specific reform in the Department of Clothing and Textiles and the Faculty. This reform started initially for M.Sc., has now formed the primary basis for the present reform at both Undergraduate and Post-graduate levels.

2. Number of Students

Class	Men	Women	Total
(1) B.Sc. (Home)			
(i) First Year	—	182	182
(ii) Second Year	—	153	153
(iii) Third Year	—	119	119
(iv) Fourth Year	—	145	145
(a) Child Development		8	
(b) Foods and Nutrition		66	
(c) Clothing and Textiles		33	
(d) Home Management		21	
(e) Education and Extension		17	
Total		145	
Total	—	599	599
(2) Post-graduate Diploma			
(a) Nursery School Education	—	14	14
(b) Dietetics	—	15	15
Total	—	29	29
(3) Junior M.Sc. (Home)			
(a) Child Development	—	12	12
(b) Foods and Nutrition	—	13	13
(c) Clothing and Textiles	—	8	8
(d) Home Management	—	3	3
(e) Education and Extension	—	5	5
Total	—	41	41

Class	Men	Women	Total
(4) Senior M.Sc. (Home)			
(a) Child Development	—	4	4
(b) Foods and Nutrition	—	7	7
(c) Clothing and Textiles	1	13	14
(d) Home Management	—	5	5
(e) Education and Extension	1	9	10
Total	2	38	40
(5) Ph.D.			
(a) Clothing and Textiles	1	4	5
(b) Foods and Nutrition	—	4	4
Total	1	8	9
Grand Total	3	715	718

3. Staff

(a) Present Position:

The staff of the Faculty consisted of 3 Professors (one of whom is in the senior scale), 7 Readers, 33 Lecturers, 8 Teaching Assistants, 6 Assistant Lecturers, 2 Teachers, 17 Class III and 33 Class IV employees. The Faculty also continued to receive help of the teaching staff of other Faculties for teaching various courses in various Departments of the Faculty.

(b) New Appointments:

Kumari P. V. Annama, Smt. Rachel George and Kumari Ansuya Rana as Lecturers in Clothing and Textiles, Home Management and Home Science Education and Extension, respectively.

Smt. Nirmala Misra as Lecturer in Child Development, on temporary basis.

(c) Teachers upgraded to higher posts:

Smt. Anna Thomas (Clothing and Textiles), Kumari Jyoti Parikh and Smt. Meena Pathak (Child Development), Kumari Urmila Patel, Smt. Neenaz Anklesaria, Smt. A. Patil and Smt. S. Seshadri (Foods and Nutrition) who were working as Assistant Lecturers were upgraded and appointed as Lecturers in their respective departments.

(d) Teachers who left the University:

(i) Kumari Vidya Dave Lecturer in Child Development For higher studies

- (ii) Dr. (Kum.) G. G. Kapadia Assistant Lecturer in Child Development For better prospects
- (iii) Kum. S. Velayudhan Temporary Lecturer in Child Development For personal reasons
- (iv) Kumari Neela Bhatt Lecturer in Child Development For personal reasons

4. Professional Growth of the Staff

(a) Publications of articles/papers :

Name	Title	Where Published
(1) Dr. Nalini Ogale and Kum. Ranavata Gyaneshwari	The amount, use and values of leisure time of home makers	Indian Journals of Home Science, Vol 7, No. 1 April, 1973
(2) Dr. (Smt.) P. Phatak	Application of B.S.D. to Neurological cases	Indian Pediatrics Vol. X, No. 3, 1973

(b) Publication of Books/Brochures :

Child Development Department Staff	(i) Behaviour problems of normal school going boys and girls of 7, 8, 9 and 10 years of age as indicated by parents, boys and teachers	Child Development Department, Faculty of Home Science
	(ii) Mental and motor growth patterns and growth velocity of Indian babies	Child Development Department Faculty of Home Science
	(iii) Abridged mental and motor scales of Baylay Scales of Infant Development	Child Development Department Faculty of Home Science
	(iv) Manual for using Baylay Scales of Infant Development based on Baroda studies and Baroda norms	Child Development Department Faculty of Home Science

(c) Papers presented at Conference, etc. :

Dr. (Kum.) T. S. Saraswathi 9th Annual Conference of the I.A.P.E., Bangalore 27-29, December, 1973 Behaviour modification in the Nursery School

(d) Talks given at different Universities :

Dr. (Kum.) Nalini Ogale College of Home Science, Agriculture University, Pantnagar Art and Science of Home Management

(e) Participation in Inservice Programme :

Smt. Virbala Shah Seminar on 'Role of the Bal Sevikas in the Fifth Five Year Plan' held at Lucknow, 17-22 December, 1973 Participant

(f) Research Work in Progress :

- (1) Dr. (Smt.) P. Phatak and (Smt.) Parul Dave Study of the working Women in the M. S. University of Baroda
- (2) Dr. (Smt.) Anjali Mehta and associates Development of Objective Criteria for the selection of children for admission to the Laboratory Nursery School

5. Faculty Union Activities

- (1) Two students of the Faculty participated in the debate organised by the Dena Bank.
- (2) Welcome, farewell, festival and fund-raising programmes could not be arranged on account of the disturbed conditions of public life in the City in the second term.

6. Library

The Faculty Library amalgamated with Smt. Hansa Mehta Library and the staff and students make use of that Library. All the departments maintain a small reference library for the use of the staff, the Post-graduate students and the Research Scholars. The Faculty subscribes for various Scientific Magazines and Periodicals.

7. Museum Laboratory, Studios, Workshop etc.

Cost of equipment as on 1-4-1973	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1974
Rs. 5,000	Rs. 799 = 82	Rs. 21,135 = 43	Rs. 5,21,935 = 25

8. Faculty Publication

Faculty magazine could not be published on account of the agitation and closure of the Colleges in the second term.

9. Distinguished Visitors

Name	Date of Visit
(1) Smt. S. Moses, Head of Child Development Department, College of Home Science, Andhra Pradesh Agricultural University, Hyderabad	19-12-1973
(2) Shri Venkatramain, Reader, Child Guidance Department, Sri Venkateshwar University, Tirupati	7-7-1973
(3) Kumari Shanti Chakravarthy, Senior Home Economist, Directorate of Education, Ministry of Food and Agriculture, New Delhi	7-11-1973
(4) Dr. (Mrs.) Manec Kunapoonpol, UNESCO Specialist in Home Economics and Population Education	22-3-1974 & 23-3-1974

CHAPTER XVI—FACULTY OF SOCIAL WORK**1 Review of Progress of Reforms Introduced in the Faculty**

The Faculty Staff and Alumni Association jointly worked for the Admission Programme for new entrants during the month of June, 1973.

2 New Experiments-Study-Cum-Service Projects*(a) Special Features for the year :*

(i) At the instance of the Department of Social Welfare, Government of India, the Delhi School of Social Work undertook the evaluation of the working of Family and Child Welfare Projects all over the country for the past five years. The Delhi School of Social Work approached the Baroda Faculty in May, 1973 for the work in Gujarat State for Rajkot and Bhuj projects. Shri B. J. Pandya, a lecturer of this Faculty worked as a Research Officer and five alumni as Research Associates. 360 respondents were interviewed for this project and the evaluation of the project was completed in January, 1974.

(ii) The Faculty organised "Workshops on Field Work Supervision" (a teaching technique in Social Work) under the Directorship of Miss Olive Swoboda, Professor in the Faculty in fifties. The programme was arranged for 3 days from 21st to 23rd November, 1973 for Faculty teachers staff development.

(iii) After a lapse of some years, the Faculty's professional journal 'Social Work Review' was published.

(iv) The Child Guidance Clinic has been started on an experimental basis in collaboration with I.C.S.W., Baroda inter alia for F. W. training.

(b) Inservice Training :

(i) The Faculty organised the fourth training course for Community Organisers for Urban Projects from 4th to 30th June, 1973. It was financed by the Union Ministry of Works and Housing, Government of India. The object of this course was to prepare and/or refresh the organisers for the job particularly of working in slums.

Twenty-two community organizers (14 men and 8 women) working in various U.C.D. projects from the states participated in the training programme; a three day study tour to Surat U.C.D. project was arranged as part of training.

(ii) Under the joint auspices of the Department of Social Defence, Government of Gujarat and Central Bureau of Correctional Services, New Delhi, the faculty organised an orientation course for officers in Correctional Administration for 2 weeks commencing from 31st March, 1974. 17 Probation Officers participated. The object of organizing the course was to acquaint the

participants professionally with the latest thinking in the field of correctional administration and functionally to humanise the services to the Social Defence clientele.

Members of the Faculty, experts from other university departments, members of the judiciary and police department, social workers, psychiatrists and lawyers worked as Resource persons in the said course. The goal was to re-orient participants towards a client centred approach of functioning in correctional administration.

In the two courses under (b) the Social Work Education teaching methods were employed. The participants in both the cases were para professional in the field of Social Work.

(c) *N.S.S. Cell*

Under the direction of the Government of India, the NSS Cell conducted Yough Against Famine Campaign which involved students and non-student youths in Famine Relief and Famine Prevention Programmes. The cell was co-ordinator for all Gujarat Universities and Gandhi Peace Foundation.

(d) *Training Course*

The Baroda Citizen Council organised a training course of two weeks for its workers with the help of the Faculty.

3. Courses of Studies

The Faculty offers a two year Post-graduate Degree Course (M.S.W.) for a career in Social Work.

(a) *Class Room Work:*

The courses of study aim at preparing competent practitioners for professional jobs in the field of Social Welfare, Family and Child Welfare, Hospitals for Medical and Psychiatric Services, Rural and Urban Community Welfare, institutions for women and children in the State Department of Social Defence and Industrial Relations and Personnel Management etc.

(b) *Field Work (Practical Training):*

There are 44 agencies in and around Baroda City which share in partnership the training programme of the Faculty. The staff and students organised activities to further promote the work of the service agency. The Faculty continued its Community Welfare activities at the Rural as well as Urban Community Centres. It continued to get co-operation from agencies in Industrial Settings.

4. Number of Students

The number of students enrolled in junior and senior classes during the year 1973-74 was as under:

	Men	Women	Total
Junior Class	26	19	45
Senior Class	26	18	44
Total	52	37	89

5. Staff

(a) *Present Position:*

The staff of the Faculty consisted of 1 Professor, 2 Readers, 8 Lecturers, 1 Agency Supervisor, 9 Class III and 7 Class IV employees. Dr. G. B. Thaker was invited to teach a course on "Juvenile Delinquency and Correctional Administration" to students of the Faculty.

6. Professional Growth of the Staff:

(a) *Publication of articles or papers:*

Name of the Teacher	Article	Name of the Journal published
(1) Smt. Promila Maitra (Editor)	Professional Journal in the field of Social Work	Social Work Review, Journal of the Faculty of Social Work 1973

(b) *Papers presented at All India Seminars/Conferences etc.*

Name of the Teacher	Name, Place and Date of the Conference	Title of the Paper presented
Kum. Rekha Mukherji	(i) Annual International Conference of International Peace Research Association, Varanasi 4th to 8th January, 1974	Maldevelopment and Peacelessness—A Social Work point of view
	(ii) All India Seminar on "Current Trends in Criminology" Vigyan Bhavan, New Delhi	Nature of Socio-Economic Offences and some of the strategies to meet the challenge

(c) Talks given at Universities/other organizations :

Name of the teacher	University/organization	Subject of the Lecture
(1) Kum. Rekha Mukherji	Research Group meeting sponsored by "Amnesty International" at Gandhi Peace Foundation, New Delhi on 22nd and 23rd March, 1974	Torture and its Impact and Nature of Rehabilitation Programme for the affected.
(2) Smt. Varsha Anjaria	(i) Baroda Junior Chamber Jaycee Week Celebrations on 11th August, 1973	Baroda after 10 years

(d) Participation in Inservice and other Programmes :

Name of the teacher	Programme	Capacity in which participated
(1) Professor (Kum.) Indira Patel	(i) Summer Institute in Family Planning for Social Work Educators organised by All India Association of Schools of Social Work at Gandhi Gram, Madurai from 19th April to 31st May, 1973	Presided over the session as Vice-President of the Association of Schools of Social Work in India.
	(ii) Seminar on Social Curriculum in Social Work Education, Madurai 16th to 19th April, 1973	As an Office Bearer

Name of the teacher	Programme	Capacity in which participated
	(iii) Regional Meeting of the Central Social Welfare Board—held in Ahmedabad from 15th to 18th November, 1973	Special Invitee
	(iv) Annual International Conference of International Peace Research Association, Varanasi from 4th to 8th January 1974	Special Invitee
	(v) 49th Annual meeting of the Association of Universities in India held at Kharagpur from 30th January to 5th February, 1974	Paper presented for N.S.S.
	(vi) U.G.C. Committee Member for National Service Scheme—held at Delhi on 15th March, 1974	Special Member
(2) Shri K. M. Sharma	(i) Programme Planning Camp organised by N.S.S., Baroda at Rangpur	Resource Person
	(ii) Social Work Summer Institute Gandhi Gram, Madurai-May, 1973	Resource Person
	(iii) Baroda Citizens Council Training of Community Organizers during January, 1974	Resource Person

Name of the Teacher	Programme	Capacity in which participated
	(iv) Member High-powered Social Science, Social Work Group, to consider-re-examination of Unicef Programme for introducing F. P. Components, during November, 1973, New Delhi	Expert
	(v) Reactivation of F. P. Work in Baroda G.M.F. working group	Member
(3) Smt. Varsha Anjaria	(i) Summer Institute in Family Planning for Social Work Educators at Gandhi Gram, Madurai from 19th April to 31st May, 1973	Participant
	(ii) Inservice Programme for Urban Community Development Workers organised by Government of India in June, 1973	Lecturer and Person
	(iii) Programme Planning Seminar for "Programme Leaders" at Baroda, 2nd August, 1973	Resource Person
	(iv) Seminar on Revitalising Family Planning Work in Baroda City at Baroda, 25th August, 1973	Participant

Name of the teacher	Programme	Capacity in which participated
	(v) Camp on 'Leadership Training for future leaders' at Baroda, 24th to 27th December, 1973	Director
	(vi) Orientation and Inservice Training Programme for Community Organisers at Baroda, 1974	Lecturer
(4) Shri S. R. Yardi	U.C.D. Training Programme for Community Organizers at Baroda from 4th to 30th June, 1973	Co-ordinator
(5) Kum. Rekha Mukherji	Orientation course for Officers in Correctional Administration for 2 weeks at Baroda commencing from 31st March, 1974	Co-ordinator
(6) Smt. Promila Maitra	(i) Indian Council of Social Welfare Service Projects in Mental Health in Baroda during April, 1973	Expert
	(ii) Workshop on Supervision-Staff Development Programme of the Faculty on 21st November, 1973	Co-ordinator

7. Library

(a) Acquisition Notes :

The Faculty has a separate library. This year a grant of Rs. 6,000/- was received for books and Rs. 1,500/- for periodicals. The following statement gives the details of acquisition by the Library of the Faculty during the year under report :

	Books (including bound periodicals)	Pamphlets	Total value in Rupees
(1) Number at the beginning of the year	8,312	2,550	88,288-67
(2) Number added during the year	214	—	5,997-54
(3) Number written off	—	—	—
(4) Number remaining at the end of the year	8,526	2,550	94,286-21

(b) Periodicals

The total number of periodicals subscribed by the Library stands at 42 while 39 bound periodicals were added during the year.

(c) Circulation of Books:

The Library remained open from 8-00 a.m. to 6 p.m. on week days and 8-00 to 2-00 p.m. on Saturday.

The statistics of the use of the Library are as under:

(1) Daily average number of readers visiting the Library	60
(2) Average number of teachers visiting the Library	10
(3) Average number of books issued for home reading	80
(4) Average number of books issued per day for reference	50

8. Visitors

Name	Date of Visit
(1) Professor R. R. Brahmanand, Head, Department of Economics, Bombay University, Bombay	3-10-1973
(2) Shri Amrit Das, Gandhian Institute of Studies, Varanasi	8-10-1973
(3) Miss Olive Swoboda, Hon. Consultant Nizamia Women's Educational Centre, Hyderabad-2 (A.P.)	21-11-1973

9. Sir V. T. Krishnamachari Institute of Rural Development, Samiala :

The institute conducted training programmes under the Central Social Welfare Board Scheme and Panchayati Raj Training Scheme.

(1) Social Welfare Training

One Job Course of 10 months duration for Chief Organisers—Family and Child Welfare Project was conducted from April 1973 to January 1974. Out of 35 women workers admitted, 33 completed their training.

The teaching staff of the Centre helped in organising and conducting one Seminar.

(2) Panchayati Raj Training

Under this programme, the following courses were organised :

Name of the Course	Duration	Number of trainees
		Men
(i) Pre-service Basic Training for Village Panchayat Secretaries	4½ months (2 Batches)	79
(ii) Refresher Courses for V. P. Secretaries	3 weeks (2 courses)	68
(iii) Peripatetic Courses for V. P. Office Bearers	3 days	35

The staff of the Panchayati Raj Training scheme consisted of one Lecturer, three Assistant Lecturers, one Class III and two Class IV employees.

The staff helped in conducting 2 camps and organised one-day programme of All India Womens' Conference, Baroda Unit at the Institute.

The following were some of the distinguished visitors to the Institute :

- (i) Shri Amarsingh Chaudhari, Minister for Social Welfare, Gujarat State.
- (ii) Smt. Indumati Chimanlal Sheth, Ex-Minister for Education, Gujarat State.

CHAPTER XVII—FACULTY OF LAW

1. Courses of Studies

(1) Post-graduate Degree Courses:

- (a) Ph.D. in Law
- (b) Master of Laws (LL.M.)

(2) Post-graduate Diploma Courses:

- (a) Diploma in Taxation Laws and Practice (D.T.P.)
- (b) Diploma in Labour Laws and Practice (D.L.P.)

(3) Degree Courses:

- (a) Bachelor of Laws (General)
- (b) Bachelor of Laws (Special)

The Faculty offers a specialized study of Taxation Laws and Labour Laws as optional courses at the LL.B. (General) degree examination.

The Professional Course for the degree of LL.B. (Special) has been introduced as prescribed by the Bar Council of India. A detailed practical training requiring the students to attend regularly the Lawyers' Chambers and the Courts has been prescribed. Written home assignments in Drafting and Viva Voce Test have been incorporated as part of the final University examination.

2. Number of Students

Class	Men	Women	Total
(1) Degree Courses:			
(a) 1st LL.B. (General)	460	84	544
(b) 2nd LL.B. (General)	90	20	110
(c) LL.B. (Special)	52	4	56
Total	602	108	710
(2) Post-graduate Diploma Courses:			
(a) Diploma in Taxation Laws and Practice (D.T.P.)	186	14	200
(b) Diploma in Labour Laws and Practice (D.L.P.)	70	5	75
Total	256	19	275

Class	Men	Women	Total
(3) Post-graduate Degree Courses:			
(a) LL.M. Part I	33	1	34
(b) LL.M. Part II	4	2	6
Total	37	3	40
(4) Ph.D.	1	—	1
Grand Total	896	130	1026

3. Staff

(a) Present Position:

During the year the staff consisted of 1 Professor, 2 Readers, 2 Lecturers, 10 Part-time Professors, 2 Visiting Professors, 4 Class III and 4 Class IV Employees.

(b) New Appointments:

Shri J. C. Rathod was appointed as Lecturer in Law.

4. Professional Growth of the Staff

(a) Participation in Conferences/Symposia

Name	Conference/Seminar	Paper Read or Presented
(1) Prof. H. C. Dholakia	(i) Seminar on Judicial Process and Constitutional Law, at New Delhi	(i) Fundamental Rights
	(ii) Seminar on Legal Education, at Nagpur University	(ii) The Problem of Medium of Instruction
	(iii) Seminar on Law and changes, at the University of Bombay	(iii) Law and Social Change
	(iv) Seminar on Law relating to Sea-Bed, at New Delhi	(iv) Stockpiling of Arms
	(v) 13th All India Law Teachers' Conference at Bombay	(v) Post-graduate Studies in Law
(2) Shri N. N. Buch	13th All India Law Teachers' Conference at Bombay	Curriculum Reforms

(b) *Participation in Inservice and other Programmes :*

- (1) Professor H. C. Dholakia published the new issue of Baroda Law Review—a Journal dedicated to legal scholarship in which eminent scholars and jurists contributed articles.
- (2) Professor H. C. Dholakia has been re-appointed by the Government of India as a member of the Central Official Language Legislative Commission, New Delhi. His appointment as a member of the State Official Language Legislative Committee has been also renewed by the Government of Gujarat.
- (3) Under the supervision of Professor H. C. Dholakia, Shri S. N. Parikh, U.G.C. Fellow completed the work of preparing a text book on "Constitutional Law of India".

5. **Lectures**

The following eminent scholars were invited to deliver lectures to the students and the staff of the Faculty:

<i>Speaker</i>	<i>Subject</i>
(1) Justice Shri B. J. Diwan, Chief Justice, High Court of Gujarat	Laws of Taxation
(2) Justice Shri T. U. Mehta, Judge, High Court of Gujarat	Six lectures on Principles of Taxation Laws
(3) Shri H. M. Jhala Vice-President, Income Tax Appellate Tribunal, New Delhi	Four lectures on some Aspects of Company Taxation

6. **Symposium**

The Faculty arranged a symposium presided over by Shri D. C. Gheewala, District and Session's Judge, Baroda on 'Penal Law Reform' on 28th July, 1973 wherein eminent advocates and teachers participated.

CHAPTER XVIII—ORIENTAL INSTITUTE

1. The main work of the Institute is research and publication of important unpublished works on all subjects related to Indology. In the year 1949, when the Institution was taken over by the University, it had 109 volumes in the Gaekwad Oriental Series and 516 other books. The number of publications at the end of March, 1974 stood at 156 in the Gaekwad Oriental Series and 605 other books. The institute is also in charge of the scheme of preparing text-books in regional languages.

The publications are under the following series :

(1) Gaekwad Oriental Series, (2) M. S. University Research Series, (3) Journal of the Oriental Institute (Quarterly), (4) Gujarati Journal 'Svadhyaya' (Quarterly), (5) M. S. University Oriental Series (Published in the Journal of the Oriental Institute), (6) Critical and Illustrated Edition of the Valmiki Ramayana, (7) Maharaja Sayajirao Memorial Lecture Series, (8) Shri Sayaji Sahityamala, (9) Shri Sayaji Balajnanamala, (10) Shri Sayaji Gramavikasmala and (11) Shri Shishujanamala.

2. **Post-graduate Teaching :**

As a part of the scheme of co-ordination of the teaching of 14 Shastras of Sanskrit in the University 5 members of the Institute are recognised as Post-graduate teachers in Sanskrit and Gujarati for guiding M.A. and Ph.D. students.

During the year, the Director, the Deputy Director and the Head of the Ramayana Department and other recognised teachers of the staff of the Institute guided in all 2 Ph.D. students and 32 M.A. students (Part I-II) (Principal and Subordinate). Shri J. P. Thaker of this Institute has been teaching Prakrit at the Post-Graduate level. The Director of the Institute continued to work as the Professor and Head of the Gujarati Department of the Faculty of Arts.

3. **Staff**

During the year, the staff consisted of 1 Director (Senior scale of Professor), 1 Deputy Director (Reader's grade), 5 Research Officers (Lecturer's grade), 10 Class III and 6 Class IV employees. Dr. U. P. Shah was appointed as General Editor and Head of the Ramayana Department. Shri J. P. Thaker worked as Officiating Deputy Director.

4. Professional Growth of the Staff

(a) Publication by members of the staff :

Articles :

Sr. No.	Author	Title	Where published
(1)	Professor B. J. Sandesara	(i) Following chapters published in ગુજરાતી સાહિત્યનો इतिहास, Vol. I, planned by Gujarati Sahitya Parishad and financed by Government of Gujarat: Chapter VII—लौकिक कथा आदि Chapter VIII—गद्य	Gujarati Sahitya Parishad, Ahmedabad.
		(ii) प्राचीन वार्ता साहित्य (A Gujarat University Extension Lecture, delivered at the Arts and Science College, Godhara.)	Published by the Gujarat University in साहित्यविषयक व्याख्यानो in July, 1973.
		(iii) सोमेश्वरकृत उल्लाघराव नाटक	अभिनव भारती, नवम्बर, १९७३
		(iv) मिराते अहेमदी-गुजरातनी प्रमाणभूत फारसी तवारीख	गुजरात दीपोत्सवी अंक, सं. २०२२
		(v) हीराणंपकृत कलिकाल रास अने कलियुग वत्रीसी Two old Gujarati poems of the 15th Century A.D.	स्वाध्याय, ओक्टोबर, १९७३
		(vi) मानसोल्लास अथवा अभिलषितार्थ चिन्तामणि—एक सर्वसंग्रहात्मक संस्कृत ग्रन्थ	कुमार, सुवर्णमहोत्सव अंक, डिसेम्बर, १९७३
(2)	Dr. U. P. Shah	(i) गुजरातनी वे दुर्लभ प्रतिमाओ	कुमार, डिसेम्बर, १९७३, सुवर्णमहोत्सव अंक
		(ii) एकानंशा—एक अध्ययन मूर्तिविधाननी दृष्टि	गुजरात दीपोत्सवी अंक, ओक्टोबर, १९७३

Sr. No.	Author	Title	Where Published
		(iii) सुरतनी चित्रकला	हिन्दुमिलन मन्दिर, रजतमहोत्सव स्मृति अंक, डिसेम्बर, १९७३
		(iv) श्रीकृष्णनी वाळलीला	स्वाध्याय, पु. १०, अंक ४
		(v) गुजरातनुं गुप्तकालीन शिल्प —केटलीक नवीन उपलब्धओ तैमज विचारणा	स्वाध्याय, पु. ११, अंक १, दीपोत्सवी अंक
(3)	Shri J. P. Thaker	Interpretation of Uttara-dhyayanasutra, III. 12.	Journal of the Oriental Institute, Vol. 22, No. 3
(4)	Shri B. N. Bhatt	The Sacerdotal influence and its importance in shaping the course of events in Rama saga.	Journal of the Oriental Institute Vol. 22, No. 3
(5)	Shri P. H. Joshi	(i) Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 22 Nos. 3-4.
		(ii) Slokas and Gathas quoted in the Brahmana Literature-II (Aitreya-Brahmana)	Journal of the Oriental Institute, Vol. 22, No. 3.

Books :

Sr. No.	Author	Title	Publisher
(1)	Professor B. J. Sandesara	(i) माधवकृत रूपसुन्दरकथा (An Old Gujarati poem of the 17th century A.D.), Second revised edition	Forbes Gujarati Sabha, Bombay.
		(ii) अनुस्मृति	A collection of re-Gurjara Granth Ratna search papers and Karyalaya, Ahmedabad. lectures.
(2)	Dr. B. N. Bhatt	Srikanthacaritam—A Study	M. S. University of (M.S.U. Research Series Baroda, No. 14)

(b) Participation in Various Programmes :

Professor B. J. Sandesara was appointed as a member on the (i) Adhoc Committee for Eastern and Indian Culture by the South Gujarat University, (ii) Managing Board of Prakrit Texts Society, Varanasi, (iii) Executive Committee of the B. J. Institute of Learning and Research, Ahmedabad, (iv) State Advisory Board for Archaeology and (v) Editorial Board of Gujarat District Gazetteers. He continued to work as a member of the (i) University Book Production Board, Gujarat State and (ii) Editorial Board of the 'Gnan R24

Gangotri. He is also a nominated member of the Senate of the Sardar Patel University. He delivered a lecture on 'भाषा अने संस्कृति' at the South Gujarat University, Surat on 24-11-1973.

Dr. U. P. Shah worked as (i) Honorary Editor of the Journal of the Indian Society of Oriental Art, Calcutta, (ii) member of the Art Purchase Committee of the National Museum, New Delhi and (iii) member of Committee for purchase of antiquities, etc. for display in the Government Museum. He convened a Seminar on 'Jain Art and Architecture' from 15th to 18th November, 1973 at Ahmedabad on behalf of the Committee for the celebrations of the Mahavir Nirvana 2500 years Mahotsava, Bombay. At the seminar he delivered a lecture on 'Jain Bronzes' over and above the papers read by him.

5. Manuscripts Section

This section has a collection of 25,615 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian languages including a few in Persian and Arabic. Of these 131 were added during the year, out of which 45 were purchased and 130 were received as gift from (i) Shri Shanabhai Rana and (ii) Shri M. D. Desai both of Baroda

During the year, 18 manuscripts were lent out to other Institutions, 3 to local scholars and 85 were issued for work on the premises of the Institute, while 2 manuscripts were borrowed from outside.

6. Printed Books Section

The institute has a well-equipped library having a collection of 35,313 books.

(A) Books:

This year the library received a grant of Rs. 12,000 for Printed Section and Rs. 300 for Ramayana Department from the University. These grants have been fully utilised.

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

	Books including bound periodicals Rs.	Total value in Rs.
(1) Total number of Volumes of the year	34,723	3,47,674-92
(2) Number added during the year	439	11,997-91
	151 (Gift)	
Total	35,313	3,59,672-83

Out of the total number of books added during the year, 439 books were purchased at the cost of Rs. 11, 997-91 and 151 books were received as gift and/or on exchange basis.

(B) Periodicals :

The total number of periodicals and scholarly journals subscribed for and received on an exchange basis now stands at 197 (190 exchange and 7 subscribed).

7. Publications

Gaekwad Oriental Series :

Editing and publication of the Series is one of the main activities of this Institute. Up till now 156 volumes have been published under this Series. The following work was printed during the year :

- (1) Sabarabhasya, Vol. II (Printed by Photo Offset Method)

The following works are under print :

- (1) Krtiyakalpataru (Pratisthakanda), edited by Shri K. V, Rangaswami Aiyanger (pp. 1-24 printed)
 (2) Pancharatra Bibliography (pp. 1-496 printed)
 (3) Satyasiddhi (pp. 1-540 printed)
 (4) Agamapramanya (pp. 1-176 printed)
 (5) An Arabic History of Gujarat, Vol. II (On bindings Stage)
 (6) Yavanajataka (under print by Photo Offset Method)
 (7) Sabarabhasya, Vol. III (under print by Photo Offset Method)

The University Grants Commission has sanctioned a sum of Rs. 90,000 for Gaekwad Oriental Series Publications on sharing basis (50% UGC and 50% State Government) during the IVth Plan period.

8. Translation Branch

The following works were published in the following Series during the year :

Shri Sayaji Sahityamala

- (1) चरकनो स्वाध्याय, भाग १ : by Shri B. G. Vaidya
 (2) कहेवत कथानको (Second revised edition) : by Swami Shri Pranavathaji

The following works are under print :

- Shri Sayaji Sahityamala :
 (1) चरकनो स्वाध्याय, भाग २ : by Shri B. G. Vaidya
 Shri Sayaji Gramavikasamala :
 (1) आपणां सुशोभन वृक्षो : by Shri A. P. Kothari

9. Ramayan Department

I. Uttarakanda (Ed. Dr. U. P. Shah)

- (a) Concordance of the Critical Edition (Uttarakanda) with Bombay, Kumbhakonam, Gorresio and Lahore editions of Sargas 26 to 100 and App. I (Nos. 1 to 13) prepared.
- (b) Further Indexing of quarter verses of the critical Edition of Valmiki Ramayana. Nearly new 8000 Cards were prepared. (Total Cards ready 1,50,644).
- (c) Complete Concordance of Uttarakanda is sent to the Press.

II. (i) Pages 433 to 624 (Sargas 78 to App. I. No. 8) printed

- (a) Fascicule 2 upto Pages 504 is published
- (ii) Appendix I (Nos. 9 to 13) under print.
- (iii) Press Copy of Appendix II prepared.
- (iv) Press Copy of Appendix III under preparation.

10. Journal of the Oriental Institute

During the year Nos. 3 and 4 of Volume 22 and Nos. 1 and 2 of volume 23 were published. 148 subscribers were registered during the year for Vol. 22 and 159 copies were sent on exchange basis. The journal is specially devoted to research studies in Indology and also includes studied papers on Ramayan and allied topics concerning the epics and the puranas.

11. Gujarati Quarterly Journal 'Svadhyaaya'

Nos. 3 and 4 of Vol. X and Nos. 1 and 2 of Vol. XI were published during the year. 106 subscribers were registered during the year for Vol. XI and 31 copies were sent on exchange basis.

12. Distinguished Visitors

Sr. No.	Visitor	Date
(1)	Dr. Balkrishna Govind Gokhale, Director, Asian Studies Program, Wake Forest University, Winston-Salem-North Carolina, U.S.A.	2-6-1973
(2)	Shri S. S. Pande, Vice-Chancellor, Indian Music University, Khairagadh (M.P.)	11-6-1973
(3)	Shri Bimal Krisana Matilal, Professor, Department of Sanskrit and Indian Studies, University of Toronto, Toronto, Canada	8-8-1973

Sr. No.	Visitor	Date
(4)	Prof. Satis Chandra, Vice-Chairman, University Grants Commission, New Delhi	22-9-1973
(5)	Shri L. C. Jain, Secretary, Bharatiya Jnanpith, New Delhi	24-9-1973
(6)	Mr. Jikido Takasaki, Associate Professor, Faculty of Letters, Osaka University, Osaka, Japan.	22-10-1973
(7)	Prof. J. Tilkasiri, Head of the Department of Sanskrit, University of Ceylon, Colombo, Srilanka.	9-11-1973
(8)	Dr. B. A. Van Nooten, Associate Professor of Sanskrit, Department of South and Southeast Studies, University of California, Berkeley, California, U.S.A.	6-2-1974
(9)	Dr. Balaji Mundkur, Professor, University of Connecticut, Storrs, Connecticut 06268 U.S.A.	15-3-1974

During the second term of the academic year 1973-74, the students were not able to arrange any programme due to disturbances.

5. Library

The following statement shows the acquisition of books and periodicals in the library during the year:

	Number	Cost in	
		Rs.	P.
(1) Books (including back numbers of Journals) as on 1-4-1973	6,629	55,137	58
(2) Books written off during the year	—	—	—
(3) Books added during the year	957	9,002	27
(4) Books as on 31-3-1974	7,586	64,139	85
(5) Journals subscribed during the year	60	1,498	40
(6) Amount spent on binding during the year	—	318	20
(7) Total amount spent on Library and/or Reading Room during the year		10,818	87

The College Library remained opened from 9-00 a.m. to 12-00 a.m. and from 5-00 p.m. to 8-00 p.m.

The average daily attendance of students and teachers is as follows:

(1) Average number of students making use of the library and/or the reading room daily	195
(2) Average number of teachers making use of the library and/or the reading room daily	45
(3) Total number of books issued to students during the year	5,655
(4) Total number of books issued to teachers during the year	3,510

6. Museum Laboratory, Studies, Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1973	Cost of equipment etc. written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1974
		Rs.	Rs.	Rs.	Rs.
1	Deadstock and Equipment	1,61,852-54	—	3,397-91	1,65,250-45

CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA

1. Courses of Studies

The institution offers the following courses of studies :

(i) Vachaspati	By research
(ii) Acharya and Shastri (Special Pandit Courses)	(i) Dharma Shastra, (ii) Jyotish Shastra, (iii) Nyaya and Vaisheshik Darshan, (iv) Purva Mimansa Shastra, (v) Sahitya Shastra, (vi) Sankhya Yoga and Vedant Darshan, (vii) Shuddhadwaita Vedant and (viii) Vyakaran Shastra
(iii) Visharad (Madhyama Kaksha)	(i) Astrology and Astronomy, (ii) Grammar and Literature (with English upto the S.S.C. standard compulsory for both the branches)
(iv) Certificate (Pratham Kaksha)	(i) Puran, (ii) Rigved Yajniki, (iii) Shukla Yajurved, (iv) Yajurved Yajniki (with Grammar and Literature compulsory for all four branches)

2. Number of Students

Number of students enrolled in various classes during the year 1973-74 was as under :

(1) Pratham Kaksha (Certificate) :

	Men Students	Women Students	Total
1st Year	44	—	44
2nd Year	12	—	12
3rd Year	12	1	13
Total	68	1	69

	Men Students	Women Students	Total
(2) <i>Madhyam Kaksha (Visharad)</i> :			
(i) Vyakaran Shastra :			
1st Year	4	1	5
2nd Year	2	1	3
3rd Year	2	1	3
4th Year	1	1	2
5th Year	—	—	—
(ii) Jyotish Shastra			
1st Year	13	1	14
2nd Year	3	—	3
3rd Year	2	—	2
4th Year	—	—	—
5th Year	—	—	—
Total	27	5	32
(3) <i>Uttam Kaksha (Shastri)</i> :			
(i) Vyakaran Shastra :			
1st Year	2	1	3
2nd Year	—	—	—
(ii) Jyotish Shastra :			
1st Year	1	—	1
2nd Year	1	1	2
(iii) Dharma Shastra :			
1st Year	2	—	2
2nd Year	—	—	—
(iv) Sahitya Shastra :			
1st Year	2	—	2
2nd Year	—	—	—
(v) Voluntary English :			
1st Year	1	—	1
Total	9	2	11
(4) <i>Uttam Kaksha (Acharya)</i> :			
(i) Vyakaran Shastra :			
1st Year	—	—	—
2nd Year	—	—	—
(ii) Jyotish Shastra :			
1st Year	2	—	2
2nd Year	—	—	—
(iii) Dharma Shastra :			
1st Year	1	—	1
2nd Year	1	—	1

	Men Students	Women Student	Total
(iv) Sahitya Shastra :			
1st Year	1	—	1
2nd Year	2	2	4
Total	7	2	9
(5) Vachaspati :			
	2	—	2
Grant Total	113	10	123

3. Staff

During the year under report the staff of the institution consisted of the Principal, 12 Adhyapakas, One Honorary Adhyapaka, 2 Class III and 4 Class IV employees. Principal Shri H. C. Mehta left the Sanskrit Mahavidyalaya during the year.

4. Library

The institution has a small library and a reading room. The following are the figures showing average daily attendance in the reading room and the circulation of books.

Sr. No.	Particulars	Number
(1)	Average number of students making use of the library and/or the reading room daily	20
(2)	Average number of teachers making use of the library and/or the reading room daily	12
(3)	Total number of books issued to teachers during the year	400

The following figures show the stock and expenditure on the maintenance of the library and reading room during the year :

Sr. No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals) as on 1-4-1973	5,111	19,339-59
(2)	Books written off during the year	—	—
(3)	Books added during the year	47	150-26
(4)	Books as on 31-3-1974	5,158	19,489-85
(5)	Journals subscribed during the year	8	108-15
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for Library and Reading room during the year	—	258-41

5. Publications by the Members of the Staff

The following research articles by the members of the staff were published in the annual issue of "Surabharati" 1973-74 :

Sr. No.	Name of the Contributor	Title
(1)	Shri S. Y. Mishra, Pradhyapak in Vyakaran Shastra	शुद्धाद्वैततत्त्वविमर्शः
(2)	Shri J. R. Pathak, Pradhyapak in Vyakaran Shastra	धर्म वेदस्य स्वतःप्रामाण्यम्
(3)	Shri S. V. Bhattbhatt, Honorary Pradhyapak in Dharmashastra	षडंगो वेदः
(4)	Shri J. B. Shukla, Upadhyapak in Yajurved Yajniki	यज्ञो वै विष्णुः
(5)	Shri I. G. Shukla, Pradhyapak in Sahityashastra	स्वातन्त्र्य रजतजयन्ति महोत्सवः
(6)	Shri L. J. Zha, Pradhyapak in Jyotishshastra	गणितायुधि अरिष्टविचारः

6. Literary, Cultural and Other Activities

(1) Extension lecturers under auspices of Shardopasak Mandal :

Sr. No.	Subject	Date	Lecturer
(1)	रसस्वरूपम्	21-7-1973	Shri S. Y. Mishra
(2)	समाजहिताय धर्मप्रवृत्तिः	29-9-1973	Shri L. G. Shukla
(3)	आयुर्वेदीया चिकित्सापद्धतिः	28-12-1973	Shri J. R. Pathak

7. Other Important Events

(1) The eleventh issue of "Surabharati"—the annual publication of the Baroda Sanskrit Mahavidyalaya in Sanskrit was published with the co-operation of the members of the teaching staff and students.

(2) The institution celebrated the Sanskrit Day on 16-8-1973 jointly with the Baroda Sanskrit Vidvat Sabha and Arya Kanya Mahavidyalaya, Baroda. A Shobha Yatra was organized to popularise the importance of Sanskrit.

CHAPTER XXI—PREPARATORY UNIT—ARTS AND COMMERCE

1. Courses of Studies

The Unit provides Preparatory courses of one year's duration in Arts and Commerce as shown below :

- (1) English Language and Literature
- (2) Indian Literature :
 - (i) Hindi Higher Level, Hindi Lower Level
 - (ii) Gujarati/Marathi/Sindhi/Urdu/Additional English
- (3) Social Studies
- (4) General Science
- (5) General English/Mathematics
- (6) Indian History and Culture (For Arts)
- (7) Book-Keeping (For Commerce)
- (8) Second Language; Sanskrit/Pali/Persian/German/French/Geography (For Arts) Commercial Geography (For Commerce)

2. Number of Students

The number of students enrolled in different classes in the year 1973-74 was as under :

Class	Men	Women	Total
(1) Preparatory Courses in Arts	428	317	745
(2) Preparatory Course in Commerce	507	302	809
Total	935	619	1554

3. Staff

There are on the staff of the Unit, a Head, one Assistant to the Head, 5 Class III and 6 Class IV employees. The teaching work is shared by the teachers of the Faculties of Arts, Commerce, Science and of the Department of General Education. About 50 teachers from various Departments participated in the teaching work of the Unit.

4. Library

Under the University scheme of amalgamation of Library of Institutions, the Library of this Unit was amalgamated with the main University Library. New books are being added every year costing about Rs. 1000. Books are selected particularly suited to the needs of the Preparatory students, in English, Indian Language, Social Studies, Science, etc.

5. Co-curricular and Other Activities

The orientation programme for fresh students in groups was arranged in the beginning of the academic year. Lectures on the importance of medical check-up and personal hygiene were also arranged. This was followed by detailed medical examination of all Preparatory students. One extra mural lecture on 'Approach to the Fifth Plan' was given by Dr. V. S. Vyas Professor of Economics and Dean, Faculty of Arts, Sardar Patel University, Vallabh Vidyanagar.

The students of the Unit participated in various activities such as Debates, Sports, Cultural Programmes, NCC, NSS etc.

CHAPTER XXII—PREPARATORY UNIT—SCIENCE

1. Courses of Study

The Unit provides instructions in Preparatory Science Course of one year's duration.

2. Number of Students

During the year there were 873 men students and 204 women students. The total number of students was 1,077.

3. Staff

There are on the staff of the Unit a Head, 5 Class III and 6 Class IV employees.

No separate teaching staff is appointed on the establishment of the Unit but teachers from different departments in the Faculties of Arts, Science and the General Education Department teach the students admitted to the Preparatory Science Course.

4. Library

Special arrangements are made for reading in the cellar of the General Education Building for all preparatory students.

5. Faculty Union Activities

(1) At the commencement of the year an Orientation Programme was arranged from 25th to 27th June, 1973.

(2) Members of the Medical Examination Board of the M. S. University of Baroda gave lectures on the importance of Medical check-up and Personal Hygiene to the students of Preparatory Unit—Science on 31st July, 1973.

(3) Under the scheme of Extra Mural Grant, Shri Chhotubhai Suthar of Anand gave a lecture on 11th September, 1973 on "અવકાશી નૃત્યોત્પત્તિઓની અભિવ્યક્તિ"

(4) Students of the Unit participated in the Inter-Faculty debates and sports tournaments held by the M. S. University Union.

(5) Students of the Unit participated in Group Song, Ras, Light Vocal Music, Classical Music, Dance etc. in the 23rd University Youth Festival held from 7th to 10th January, 1974.

(6) This year 27 students registered and appeared for the National Science Talent Search Examination held in January, 1974.

(7) Regular guidance was arranged for the weak students in Chemistry, Physics, Mathematics, Biology and English. In all 141 students took advantage of these extra classes in the first term and 316 in the second term.

(8) The Preparatory Unit—Science Students Association collected and contributed Rs. 1,059=25 towards the Drought Relief Fund.

CHAPTER XXIII—SHRI M. K. AMIN ARTS AND SCIENCE
COLLEGE AND COLLEGE OF COMMERCE, PADRA

1. Courses of Studies

There was provision for the following courses during the year:

- (1) Preparatory Courses in Arts, Science, Commerce
- (2) (a) B.A. (Major) Economics, History, Gujarati and Hindi
(b) B.A. (Minor) History, Geography, Gujarati, Hindi, Political Science, Psychology and Ancient Indian Culture
- (3) B.Com. Accounting and Auditing, Banking and Business Management

2. Number of Students

Year/Class	Men	Women	Total
(1) Preparatory Arts	182	11	193
(2) Preparatory Science	106	2	108
(3) Preparatory Commerce	357	13	370
Total:	645	26	671
(4) F.Y.B.A.	81	12	93
(5) S.Y.B.A.	28	11	39
(6) T.Y.B.A.	13	5	18
Total:	122	28	150
(7) F.Y.B.Com.	219	8	227
(8) S.Y.B.Com.	158	8	166
(9) T.Y.B.Com.	148	11	159
Total:	525	27	552
Grand Total:	1292	81	1373

3. Staff

(a) Present Position:

During the year, the staff of the College consisted of one Principal, 24 Lecturers, 4 Temporary Assistant Lecturers, 7 Part-time Teachers, one Physical Instructor, 16 Class III and 14 Class IV employees.

4 Professional Growth of the Staff

(a) Publication of Books:

Name	Title	Publishers
(1) Dr. Y. M. Naik and Smt. Nandini Pathak	માનવ અવનલક્ષી અવવિજ્ઞાન	Bindu Publishing House, Baroda, December, 1973
(2) Sarvashri M. C. Patel, D. S. Pathak and M. R. Vyas	Elements of Economic Theory	Bindu Publishing House, Baroda, September, 1973

(b) Research Work in Progress:

- (1) Shri M. C. Patel
A study of the problems of pricing Transport Services in a developing economy with reference to India
- (2) Shri M. A. Patel
Anandrao Gaekwad and his relations with the indigenous Bankers.

5 Library

The College has a separate library. It received from the University a grant of Rs. 15,000/ for books, Rs. 3,000/ for periodicals and Rs. 2,000/ for binding. The working hours of the College Library are from 8-00 a.m. to 5-30 p.m. on all working days and from 8-00 a.m. to 3-00 p.m. on Saturdays.

Particulars:

- (1) Average number of students making use of the College Library and/or the Reading Room daily 500
- (2) Average number of teachers making use of Library and/or the Reading Room daily 50
- (3) Total number of books issued to students during the year 33,000
- (4) Total number of books issued to teachers during the year 7,000

Following figures show the stock and expenditure on the Library and/or the Reading Room:

	Number Rs.	Cost in Rs.
(1) Books (including Back Numbers of Journals) as on 1-4-1973	6,726	86,626-46

	Number Rs.	Cost in Rs.
(2) Books written off during the year	—	—
(3) Books and Back Volumes of Journals added during the year	2,023	14,996-49
(4) Books and Back Nos. of Journals as on 31-3-1974	8,749	1,01,622-97
(5) Journals subscribed during the year	95	2,998-45
(6) Amount spent on binding during the year	—	1,348-10
(7) Total amount spent for Library and/or Reading Room during the year	—	19,343-04

6. Museum, Laboratory, Studios, Workshops etc.

The following is the statement of the cost of equipments in the College :

Sr. No.	Name of the Department	Cost of equipment as on 1-4-73 Rs.	Cost of equipment etc. written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment as on 31-3-1974 Rs.
(1)	Physics	12,130-47	—	—	12,130-47
(2)	Chemistry	11,659-16	—	—	11,659-16
(3)	Biology	3,033-78	—	—	3,033-78
Total :		26,823-41	—	—	26,823-41

CHAPTER XXIV—POLYTECHNIC

1. Courses of Studies

The Polytechnic offers the following courses:

- (1) Three Year Diploma courses in Civil, Mechanical and Electrical Engineering.
- (2) Four Year State (Extended) Diploma Courses in Civil, Mechanical and Electrical Engineering on Part-time basis.
- (3) Three Year and Ten month (Sandwich) Model Diploma courses in (a) Technology of Processing of Oil and Gas, (b) Technology of Production of Synthetic Resins and Plastics and (c) Technology of Production of Fertilizers and Acids. These courses are on Semester pattern.

2. Number of Students

	Men	Women	Total
<i>(A) Regular Diploma Courses:</i>			
(1) Civil Engineering	325	1	326
(2) Mechanical Engineering	356	—	356
(3) Electrical Engineering	253	—	253
Total	934	1	935
<i>(B) State (Extended) Diploma Courses:</i>			
(1) Civil Engineering	40	—	40
(2) Mechanical Engineering	134	—	134
(3) Electrical Engineering	132	—	132
Total	306	—	306
<i>(C) Model Diploma Courses in Petro-Chemical Technology:</i>			
(1) Technology of Processing of Oil and Gas	75	1	76
(2) Technology of Production of Synthetic Resins and Plastics	85	2	87
(3) Technology of Production of Fertilizers and Acids	78	1	79
Total	238	4	242
Grand Total	1478	5	1483

3. Staff

(a) Present Position:

During the year under report the staff of the Polytechnic as on 31-3-1974 consisted of 1 Principal (Professor), 3 Readers, 55 Lecturers, 25 Senior Instructors, 1 Assistant Lecturer, 62 Class III and 58 Class IV employees. Mr. O. V. Stefanski and Dr. V. Y. Zezekalo, USSR experts in Technology of Oil and Gas and Technology of Synthetic Resins and Plastics helped the Polytechnic in teaching as well as organising Model Diploma courses in O.P.F. Technology. Seven visiting lecturers from the Faculty of Technology and Engineering and Industries also participated in the teaching work of the Polytechnic.

(b) New Appointments:

- (1) Shri M. R. Thakkar as Reader and Head of Civil Engineering Department.
- (2) Shri V. N. Panchal as Lecturer in Electrical Engineering Department.
- (3) Shri K. T. Oza as Lecturer in Chemical Engineering.
- (4) Shri N. D. Jadhav as Lecturer in Chemistry.

(c) Teachers upgraded to higher posts:

- (1) Shri A. G. Telpande, Senior Instructor in Chemical Engineering was promoted as Lecturer in Chemical Engineering.

4. Professional Growth of the Staff

(1) Sarvashri S. N. Moghe, K. Ethirajulu and N. M. Surana completed their training in Process Control and Automation, Production of Oil and Gas, and Production of Mineral Fertilizers and Acids respectively in U.S.S.R. for 1½ to 2 years, under the INDO-USSR Credit Agreement of December, 1966.

(2) Sarvashri M. N. Champaneria and D. B. Parikh, Senior Instructors in Mechanical Engineering and C. K. Parmar, Senior Instructor in Electrical Engineering were deputed for 18 months Technical Teachers' Training Programme for Diploma holders at the T.T.T. Institute at Bhopal.

5. Faculty Union Activities

The students formed their Association during the year and carried out some activities of their interest—curricular and ex-curricular—in the first term. Due to disturbances in the second term the association was not able to stage any programme.

6. Library

(a) Books:

Books were purchased from University's recurring grant of Rs. 15,000/- and from U.G.C.'s Non-recurring grant of Rs. 30,000/-.

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

	<i>Books and Bound periodicals</i>	<i>Total value in Rupees</i>
(1) Number at the beginning of the year	15086	2,45,978-43
(2) Number added during the year	917	19,277-05
(3) Number withdrawn from the record	88	980-51
(4) Number remaining at the end	15915	2,64,274-97

(b) Periodicals:

During this year the library subscribed to 60 periodicals. The total amount spent for the subscription of the periodicals was Rs. 3,765-05 and the amount spent for binding was Rs. 1,525-31.

(c) Circulation of Books etc.:

The working hours of the Library for the whole academic year were from 8-00 a.m. to 8-00 p.m. except on Sunday, s and other holidays of the University, while for the month of May and June the timings were from 11-00 a.m. to 5-30 p.m.

(d)

The Polytechnic also runs a Book Bank for the students of the Extended (State) Diploma courses in the evening.

(e) Other Statistics:

The number of readers registered was as under:

- (1) Students 1069 (including deposit members 36)
- (2) Teachers 176

Statistics for the use of the Library are given below:

- (1) Daily average number of readers making use of the library 277
- (2) Daily average number of books issued to the readers for home reading 65

7. Museum, Laboratory, Studios, Workshop etc.

The Institution is fully equipped with 16 Laboratories and 9 Workshops for imparting practical training to students in the relative subjects.

Information about the equipment etc. and the value of the same is given below :

Sr. No.	Item	Cost of Equipment/ Machinery as on 1-4-1973 Rs.	Cost of Equipment/ Machinery etc. written off during the year Rs.	Cost of Equipment/ Machinery etc. added during the year Rs.	Cost of Equipment/ Machinery as on 31-3-1974 Rs.
(1)	Laboratories	7,43,589-40	—	3,27,416-35	10,71,005-75
(2)	Workshop	4,06,903-25	—	—	4,06,903-25

The following four laboratories of the Model Diploma Courses in Petrochemicals have been equipped and started functioning during the year.

(1) Inorganic Chemistry and Inorganic Synthesis Laboratory; (2) Organic Chemistry and Organic Synthesis Laboratory; (3) Physical and Colloidal Chemistry Laboratory and (4) Analytical Chemistry Laboratory.

8. Co-curricular Activities

(1) Exhibition of Education Film :

Five film shows were arranged during the year to supplement class room teaching.

(2) Co-operative Stores :

The Store sells at a reasonable price articles for the normal use of an engineering student.

XXV—DEPARTMENT OF CONTINUING/ADULT EDUCATION

1 Programmes and Activities

Some of the processes and activities initiated last year for developing an infra-structure for the new Department were continued to ensure its effective functioning and gradual growth. Some of these processes will continue till the Department becomes a viable organization within the University structure.

The educational programmes and activities undertaken during the current year are described below :

(1) Summer School : The Department organized its first Summer School during April-May, 1973 in collaboration with several Departments and Faculties of the University and offered 25 Short-term Courses in a variety of fields such as Social Sciences, Humanities, Education, Home Science, Fine Arts, and Music. These courses were meant for teachers of Primary and Secondary Schools, housewives, students and general public, and were well received. Following courses were successfully conducted during the year :

Sr. No.	Title of the Course	Duration	Enrolment	Men	Women
(i)	Workshop for Nursery School Teachers	2 weeks	28	—	23
(ii)	Programme Learning for Primary School Teachers	2 weeks	15	3	12
(iii)	Use of various Skills in Day-to-Day Teaching	8 days	23	10	13
(iv)	Introductory Courses in Linguistics and Language Teaching	2 weeks	10	4	6
(v)	Training Course for Teacher Librarian	3 weeks	16	12	4
(vi)	Methods of Evaluation in Secondary Schools	2 weeks	11	11	—
(vii)	Methods of Museum Education and Taxidermy	10 days	12	9	3
(viii)	Health Education	3 days	23	11	12
(ix)	Light Music	4 weeks	13	4	9
(x)	Tabla Accompaniment	4 weeks	14	12	2
(xi)	Interior Decoration	2 weeks	22	1	21

Sr. No.	Title of the Course	Duration	Enrolment	Men	Women
(xii)	Stitching of Sari, Blouses and Baby Frocks	2 weeks	24	—	24
(xiii)	Photography for Beginners (In three Batches)	2 weeks	35	30	5
(xiv)	Creative Sculpture	2 weeks	21	11	10
(xv)	Batik on Textiles	2 weeks	28	2	26
(xvi)	Handmade Pottery	2 weeks	21	7	14

(2) Part-time Post-graduate Certificate Course in Industrial Purchasing and Materials Management (One year duration) started in August, 1973. 68 participants enrolled.

(3) Part-time Post-graduate Certificate Course in Tax Management (4 months duration) began in December, 1973. 39 participants enrolled.

(4) Part-time Post-graduate Certificate Course in Marketing Management (one-year duration) was launched in March, 1974. 50 participants enrolled including one as a non-collegiate student.

(5) A Short-time Course in Applied Nutrition Training (2 weeks' duration) for women from low-income families. 28 women completed the course.

(6) Remedial Course in English for Researchers. The course was specially designed for Ph.D. students in Biochemistry and offered in collaboration with English Department. 25 Ph.D. Scholars including some members of the academic staff of the Biochemistry Department participated.

The following are the programmes for which the planning efforts were initiated this year but the programmes will be launched during the next year.

(1) Part-time Certificate Course in Library Science of 4 months duration (1 Semester) at the under-graduate level. It will be offered twice a year starting for the first time in July, 1974.

(2) A Short-term Course for Expectant Mothers (2 weeks duration) to be started in summer, 1974.

2. Consultative Role of the Department

(1) The Department hosted the Committee appointed by the Indian University Association for Continuing Education on 27th and 28th June, 1973. The Committee met to develop a plan regarding Continuing Education in the Fifth Five Year Plan for submission to the U.G.C. Dr. S. Kapoor presented a discussion paper at the meeting.

(2) The Department acted as a resource institution in developing a training programme for university adult educators at the national level. The training programme was developed at the request of I.U.A.C.E.

(3) The Department provided advice through correspondence to a number of Universities regarding the development of continuing education programmes at the University level.

(4) Dr. S. Kapoor was consultant to the University of Udaipur regarding the establishment of a new Centre for Continuing Education of the University.

3. Staff

(a) Present Position :

The staff of the Department constituted of one Professor, 3 Lecturers, 2 Class III and one class IV employees.

(b) New Appointment :

Dr. Amar Singh Abani was appointed as Lecturer in February, 1974.

4. Professional Growth of the staff

Shri Z. M. Quraishi, Lecturer in the Department obtained his doctorate in the field of Educational Psychology.

a Publication of Articles/Papers

Name	Title	Where published
(i) Prof. S. Kapoor	(i) M. S. University of Baroda Launches a Department of Continuing Education	Indian Journal of Adult Education, May, 1973.
	(ii) Offering Summer Courses for Adults—A Report of an Experience	PRASAR Vol. 1, No. 3, October, 1973
	(iii) Social and Adult Education—A Trend Report	A Survey of Research in Education published by the Centre of Advanced Study in Education, M. S. University.
	(iv) Department of Continuing Education—Purposes and Mode of Operation	University News, November, 1973

(b) Papers presented at Conferences, Seminars etc.

Name	Conference	Title
(i) Prof. S. Kapoor	(i) Committee meeting of the Indian University Association for Continuing Education, held at Baroda on 27-28 June, 1973	Continuing Education in Fifth Five Year Plan —Some Observations and Suggestions
	(ii) Meeting of all Indian University Adult Educators held at Jaipur on 1-3 October, 1973	Departments of Adult Education in Indian Universities —Some Issues and Concerns

(c) Participation in Inservice and other programmes :

Sr.No.	Teacher	Programme, Place and Date
(i)	Prof. S. Kapoor	Attended a meeting of All India University Adult Educators at Jaipur from 1st to 3rd October, 1973.
(ii)	Prof. S. Kapoor Dr. A. M. Quraish and Kumari T. P. Bhavnagri	Attended the 26th All India Adult Education Conference at Jaipur from 4th to 6th October, 1973
(iii)	Kumari T. P. Bhavnagri	
(iv)	Dr. Z. M. Quraishi	Conducted Workshop for the Rural Workers of Family and Child Welfare Scheme at Khultabad in Aurangabad Dist. from 18-25 February, 1974.
		Attended a Seminar on "Resource Personnel Training" held at Bhavnagar from 28th to 31st March, 1974

(d) Research :

Sr.No.	Name	Subject
(i)	Prof. S. Kapoor, Dr. Z. M. Quraishi and Kumari T. P. Bhavnagri	A Survey of Extension and Extra-Mural type activities carried on by various Faculties and Academic Departments of the M. S. University during the last six years, 1967-1973
(ii)	Dr. Z. M. Quraishi	(1) Teacher Morale and Organization Climate—An Exporatory Study. The Progress of Education in India, February 1973

Sr. No.	Name	Subject
(2)		Regression Analysis and Predication. Accepted for publication in the 5th Volume of the Indian Journal of Psychometry and Educational Research, Patna.
(iii)	Prof. S. Kapoor and Dr. Z. M. Quraishi	A Study of Selected Aspects of Correspondence Education in Indian Universities in collaboration with I.U.A.C.E.
(iv)	Prof. S. Kapoor	A study of Selected Aspects of Departments of Adult and Continuing Education in Indian Universities.
(v)	Kum. T. P. Bhavnagari	(1) A Survey of the training needs of Nursery School Teachers of Baroda. (2) A Survey of Parent-Teacher Associations in the English Medium Schools of Baroda.

5. Library

215 books in the field of Adult and Continuing Education have been acquired in the Department Library. A number of technical books dealing with the various courses have been purchased and kept in the Hansa Mehta Library for the benefit of students enrolled in the evening courses run by the Department.

During the year, 13 journals were subscribed to, while for the next year many more have been ordered out.

6. Visitors

This year with the purchase of 5 films, a small film library was initiated :

- | | |
|--|---------------------|
| (1) Prof. James Draper, Professor of Continuing Education with O.I.S.E., University of Toronto, Canada | 10-13th March, 1973 |
| (2) Dr. K. D. Gangrade, Delhi School of Social Work, Delhi | 5th December, 1973 |
| (3) Shri M. N. Palsane, Hon. Director, Centre of Continuing/Adult Education, Poona University | 24th December, 1973 |
| (4) Mr. Ralph Noble, Director of Public Services, Michigan Technological University | 1st February, 1974 |
| (5) Shri Chunibhai Bhatt, Secretary, Social Education Committee, Surat. | 5th March, 1974 |

The following statement gives the details of the Bookstock of Smt. Hansa Mehta Library during the year.

	Books	Bound Vols of Periodicals	Pamphlets	Manuscripts	Maps, Charts etc.	Total value in Rs.
(i) Number at the beginning of the year	2,56,635	34,626	16,434	248	816	51,91,827-47
(ii) Number added during the year	10,544	1,246	524	—	46	5,73,430-32
(iii) Number withdrawn from the records	82	—	456	—	—	1,057-51
(iv) Number remaining at the end of the year	2,67,097	35,872	16,502	248	862	57,64,300-28

(2) Periodicals:

The Library subscribed for 905 periodicals and scholarly journals during the year. 1246 volumes of bound periodicals were added to the stock.

2. Cataloguing Section

The activity of the Cataloguing Section is reflected in the following statistics during the year:

(A) Books classified and catalogued:

(a) New Accessions to University Library	10,544
(b) New Accessions to the Faculty Libraries	7,351
(c) Bound periodicals catalogued and classified	2,233
Total	17,895

(B) Other details of the work of the section incidental to the above are as follows:

CHAPTER XXVI—SHRIMATI HANSA MEHTA LIBRARY

1. Acquisition Notes

(1) Books:

The grant of Rs. 2 lakhs sanctioned by the University Grants Commission in the year 1973 has been fully utilized. The total grants thus paid for purchase of books and journals to the University Library by the University Grants Commission during the IVth Plan period amounted to Rs. 7.1 lakhs.

The University Library also received a sum of Rs. 2,16,000/- from the University towards the recurring expenditure on subscription of periodicals.

The number of acquisitions in various institutions of the University are as follows:

Institution	Number of Books
Smt. Hansa Mehta Library (which includes Books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science, Preparatory Unit—Arts, Commerce and Science, Department of Museology and the Centre for Continuing/Adult Education and Community Services)	10,544
General Education Centre	89
Faculty of Technology and Engineering	2,018
Faculty of Fine Arts	56
Faculty of Social Work	214
College of Indian Music, Dance and Dramatics	957
Oriental Institute (Printed Section)	590
Polytechnic	1,145
Sanskrit Mahavidyalaya	47
Centre of Advanced Study in Education	920
M. K. Amin Arts and Science College and College of Commerce, Padra	1,237
Chetan Balwadi	78
Total	17,895

Out of these 17895 books, 1697 were received as gift.

Shri Rangildas M. Kapadia of Gandevi (Dist. Bulsar) donated his valuable collection of 5001 books to the University Library. These books are being processed.

	For University Library	For Faculty Libraries	Total
(1) Card typed	31,632	36,755	68,387
(2) Cards filed in the Catalogue	31,632	36,755	68,387

3. Circulation Section

As usual, the working hours of the Library for the whole academic year *i.e.* from April to March (except in the month of May and June) were from 8-00 a.m. to 10-00 p.m. The Library also remained open on almost all Sundays and Holidays during the academic year. From 10th May to 10th June 1973, the Library remained open from 7-00 a.m. to 1-00 p.m. (on week days) and 7-00 a.m. to 11-00 a.m. (on Saturdays) in response to the request of the students. For the remaining days in the months of May and June 1973, it remained open from 11-00 a.m. to 5-30 p.m. only. It remained closed on Sundays and Holidays during these two months.

From the midst of August, 1973 the Cellar of the General Education Building was kept open for reading purpose for the Preparatory Arts, Commerce and Science students. This reading room accommodates 200 readers and contains all the prescribed and recommended books for the Preparatory students.

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

(1) Post-graduate Students	1,285
(2) Under-graduate Students	6,399
(3) Research Scholars, Assistants, Fellows	78
(4) University Teachers	590
(5) Others	478
	Total 8,830

The statistics of the use of Library are given below:

(1) Daily average number of readers visiting the library	2,500
(2) Daily average number of readers visiting the reading room of General Education <i>i.e.</i> Cellar	200
(3) Total numbers of books issued per day for reading	944
(i) Average number of books issued per day for the home reading from General Collection	287
(ii) Average number of books issued per day from curricular collection	273

(iii) Average number of books issued per day from reading room of the General Education <i>i.e.</i> Cellar	36
(iv) Average number of books issued per day from the Central Hall Reading Room	3
(v) Average number of books issued per day for reference from Stacks	345
(4) Average number of books issued per reader in the year	25

4. Reference Section

(1) Reference Service to Readers:

Reference service has been playing an important role in the academic life of the University. The reference Section conducted a number of activities such as answering queries of readers personally, by correspondence and on phone, providing guidance to students and teachers for the better use of library's resources, etc.

(2) Orientation Programme:

In the beginning of the academic session, the Reference Section conducted an orientation programme intended to familiarize the new entrants to the working of the various sections of the Library. The various practices and procedures followed by the library, the arrangement of books on the shelves and other technical devices were explained to them which would enable them to make the best use of the library and help themselves in finding out their requisite materials.

(3) Exhibitions:

From time to time the Reference Section puts up exhibitions of books and other reading materials on different topics suited to the occasion. During the period under review the exhibitions of books, pamphlets and photographs on the following topics and persons were arranged:

(a) Special Exhibition:

(i) Ideal life, (ii) U.N. Day, (iii) University Declaration of Human Rights, (iv) Vocational Guidance, (v) Sardar Vallabhbhai Patel, (vi) Shri Aurobindo and (vii) Sarvodya.

(b) Weekly Exhibitions:

Selected new books were displayed every week in the University Library.

(4) Bibliographical Activity:

Bibliographies on the following topics were compiled during the period:

(i) Ancient Indian Political Thought, (ii) Knitting and Sewing, (iii) Student Unrest, (iv) Pearl Buck and (v) Embroidery.

(5) *UNESCO Information Centre :*

To popularise the activities of the UNO and UNESCO, a separate UNESCO Information Centre has been kept in the Reference section.

(6) *The National Library Week :*

In response to the appeal of the Indian Library Association regarding the celebration of the Sixth National Library Week, the Reference Section carried out the following activities :

(i) A special exhibition of books, pamphlets, photographs, etc. was arranged on the "Use of books and libraries" during the library week.

(ii) Students of the different schools of Baroda were invited in groups to visit the library. A brief talk was given to them on "How to make the best use of the library".

(7) *Theses and Dissertations :*

(i) During the period, 217 theses and dissertations were added to the collection of 2570, bringing the total collection to 2787. This collection is kept separately and is in constant use.

(ii) During the period, 1177 readers consulted the theses and dissertations.

(iii) The Reference Section published the descriptive list of Ph.D. theses received in the library from January 1973 to December, 1973.

(8) *Reference Material :*

During the period 1362 readers consulted the reference books and other reference material.

(9) *Extension Services :*

Under the Extension Service Programme of the United States Information Service, Bombay; this library received books on loan basis. These books were kept on the open shelves in the Reading Room for the use of the readers.

The reference Section has a sizable collection of pamphlets. The following statement gives the details of pamphlet collection in the Library during the year.

(i) Number at the beginning of the year	16438
(ii) Number added during the period	524
(iii) Number withdrawn from the record	456
(iv) Number remaining at the end of the period	16506

5. *Teaching of Library Science*

Out of 22 students who appeared at the Bachelor of Library Science Examination, 17 were declared successful—2 in first class, 12 in second class and 3 in pass class.

CHAPTER XXVII—THE MAHARAJA SAYAJIRAO UNIVERSITY
OF BARODA PRESS1. *Staff*

During the year, the staff of the Press consisted of a Manager, a Head Clerk (Accounts and Stores), one Head Proof-Reader, one Senior Proof-Reader, one Junior Proof-Reader and a Clerk. There are 39 permanent workers in the Press.

2. *Machinery*

The Press has machinery worth Rs. 3,44,121 including machines worth Rs. 1,19,350 purchased from the grant of the University Grants Commission and the State Government.

3. *Printing Activities*

During the year 1166 plus 284 examination papers were printed under conditions of secrecy for various University Examinations. The Press also printed Syndicate and Senate proceedings, Details of Establishment, Magazines, Annual Accounts, Budget Estimates, Questionnaires, Pamphlets, Certificates, General Forms, Prospectus, Souvenirs etc. of the Faculties and Institutions. The University Press works for the University Publications, Magazines, Stationery, Printed forms etc. purely as a Service Department from April, 1967.

(A) The following is the list of books printed by the Press and published during the year :

<i>Name of the Book</i>	<i>Publishers</i>
(1) Kahevat Kathanako	Oriental Institute
(2) Ring Frame	TAIRO
(3) Sabara Bhasya, Vol. II Adhyayas IV-VIII	Oriental Institute
(4) Statistical Summary of Medical Examination Report 1969-70 and 1970-71	Statistical Service Unit, Faculty of Science
(5) Akasha na Diva	Oriental Institute
(6) Mata ane Balaka	Oriental Institute
(7) Annual Report 1972-73	University Office
(8) Sabar Bhasya, Vol. III	Oriental Institute
(9) Maithili Natak ka Udbhav Aur Vikas	Hindi Department, Faculty of Arts

<i>Name of the Book</i>	<i>Publishers</i>
(10) Srikanthacaritam	Department of Sanskrit, Faculty of Arts
(11) Capital Outunt Relations in Indian Manufacturing 1946-64	Economics Department, Faculty of Arts
(12) Review of Research on Theory of Teaching	CASE
(13) Diagnosing School Personality	CASE
(14) The Faintings of the three Tagores	Faculty of Fine Arts
(15) Vividha Vyakhyano—Guchchh III	Gujarati Department, Faculty of Arts
(16) Charakno Swadhyaya—Part I	Oriental Institute
(17) Zafar Ul waliah Bi Mazaffar wa Alihi	Oriental Institute
(18) Linguistic Foundations of Human Knowledge	Department of Linguistics, Faculty of Arts
(19) Microteaching in Teacher Education	CASE
(20) A Comparative Study of English and Gujarat Syntaxes	Faculty of Education and Psychology

(B) The following Journals were printes during the year : The Journal of M. S. University of Baroda, (2) The Journal of Oriental Institute (Quarterly), (3) The Journal of Animal Morphology and Physiology (Half yearly), (4) Swadhyaya (Quarterly), (5) Journal of Technology and Engineering (Half yearly), (6) The Baroda Journal of Nutrition (Half yearly), Studies in Museology (yearly).

4. University Stationery Unit

This Unit is a service department of the University and is under the supervision and control of the University Press Manager. It purchases and distributes stationery every quarterly to all Faculties and Institutions and the University Office. It has a staff of one Senior Clerk, one Stationery Clerk, one Riksha Driver-cum-Stationery Distributor and one helper. During the year Stationery worth Rs. 2,13,437/- was purchased and Stationery worth Rs. 2,39,129/- was distributed.

5. University Publication Sales Unit

This Unit is also under the control and supervision of the University Press Manager. The establishment consists of a Senior Clerk, a Clerk and one outdoor work assistant/attendant. It is working as the book-shop for University Publications. The total sales during the year was Rs. 1,26,542/-.

CHAPTER XXVIII—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

1 Executive Committee

For the academic year Professor R. C. Patel and Shri C. D. Amin were appointed as President and Treasurer respectively of the M. S. University Union. Prof. R. C. Patel however, resigned as President and in his place Dr. A. R. Mehta was appointed as President from 23rd October, 1973.

Election of Vice-President and General Secretary and Faculty Representatives were held on 14th July, 1973. Shri Jai Patel was elected as Vice-President and Shri D. F. Barot as General Secretary. Th representatives of various Faculties and Institutions were elected by the students of respective faculties and institutions. The following members were nominated by the Syndicate :

- (1) Shri Aswin Hathi
- (2) Shri Naginbhai Patel

The following members were nominated by the Executive Committee on various Boards of the Universities :

- | | |
|---------------------------------------|-----------------------------|
| (1) University Board of Sports | (1) Kumari Promina Dasgupta |
| (2) University Students Welfare Board | (2) Shri A. B. Kanitkar |
| (3) University Students Aid Fund | (1) Shri Deepak G. Desai |
| | (2) Shri Mukesh H. Patel |
| | (3) Shri C. V. Pillay |
| | (1) Shri D, F. Barot |
| | (2) Shri R. P. Patel |
| | (3) Shri Mukesh H. Patel |

2. During the year the Sectional Secretaries conducted various activities with enthusiasm and interest. The activities are described briefly as under :

(1) Indoor Games Committee

Table Tennis Teams were sent to take part in the Inter University Tournament held at Hyderabad and reached quarter final stage.

Kumari Lata George put up a commendable performance at the National Level.

(2) Badminton Committee

Teams took part in the Inter University Tournament held at Indore. Girls' Team took part in the All Gujarat Open Tournaments held at Sikka and won a number of prizes. The Boys teams participated in All Gujarat Open Tournaments at Ahmedabad, Nadiad and Vallabh Vidyanagar.

(3) Entertainment Committee

This committee was very active on the Cultural Front. A discussion was held with Kumari Rehana Sultana, the 'Urvashi Award Winner' and with Smt. Urmila Bhatt, the 'Rashtrapati Award Winner' on 12th August, 1973. Shri Shailendra Singh's Musical Night was staged on 1st December, 1973. An entertainment programme was organised with the help of the Music College students during the Conference of the Vice-Presidents and General Secretaries of the Unions of various Universities in early January, 1974.

(4) Emester Editorial Board

Shri Jitendra Tiwari, the Convener, with the help of other members published two issues of the Emester.

(5) Film Club

The Film Club under the Secretaryships of Sarvashri Pillay and Kanitkar exhibited two films : (i) ANITA and (ii) MERA GAON MERA DESH. The first was a ticket show and the second, free and open to all.

(6) Hiking Club

A tracking programme on bicycles was organised at Pavagadh for two days wherein about 35 to 40 students participated. It is now proposed to send a team of selected hikers to Mount Abu and Manali during the next year holidays for training in basic course in Rock-climbing and advanced training in Ice and Show Craft respectively.

(7) Social Service Committee

The activities which were planned for this year and the activities actually performed during this year by this committee are as follows :

In collaboration with the N.S.S., a village Vejalpur was selected near Vaghodia for welfare activities for the Rural area. Some N.S.S. volunteers and some of the Committee members under the leadership of Shri Chudasama took part in this activity. A contact road from village to the highway was repaired. An overall medical check-up of all the villagers was done ; and some preventive medicines were given, for which the Taluka Panchayat of Vaghodia bore the expenses. Two roofs were rebuilt during the heavy rain and the expenditure of the same was borne by the volunteers.

(8) The Discussion Committee, the Debate Committee, the U.N.O. Committee and the Public Relation Committee had planned several programmes which could not be implemented on account of disturbances. Professor P. G. Mavalanker, M. P. gave a talk on 'youth where thou art ?

(9) An open programme was organised to felicitate Shri Sunil Gavasker, the well known cricketer on 21st December, 1973. A Reception to the Bombay and Baroda Ranjit Trophy teams was held on this occasion.

CHAPTER XXIX—GENERAL EDUCATION CENTRE

During the formative years of the University considerable thinking was done on the place of General Education in the academic programme of the University. It was felt that while making provision for specialized studies, a University should also ensure that every student, no matter what his speciality, has some understanding of the physical world in which he lives, has an appreciation of the complex social relationships by which he is surrounded and has a grasp of human values which can be developed through contact with Art, Literature of the Humanities. In other words, it was necessary to find a place for the elements of liberal education alongside highly specialised studies.

To this end, the University accepted the principle that General Education should be an important complement to specialisation, and from 1953 a programme of General Education lectures and discussions was arranged for the students of the Arts, Science and Commerce degree classes. From June, 1957 this was extended to the Preparatory classes and the First and Second Year Degree classes in Arts, Science, Commerce, Fine Arts and Home Science as well as the Pre-Medical year and the First Year of the Engineering. Till 1969-70 General Education was a required subject for students of the University but since then it has been made optional.

2. Organisation

The Advisory Committee which consists of the Vice-Chancellor, Pro-Vice-Chancellor, Deans and other Heads, meets at least twice a year and considers recommendations of the General Education Sub-committee on Humanities, Social Sciences and Natural Sciences. The Sub-committees meet as often as necessary and consider problems of revising the syllabi in their own field recommend reading material and teaching arrangements for the General Education courses in various Faculties.

3. Building and Equipment

Classes meet in the General Education Centre. The Centre constructed and equipped with the Ford Foundation grant of \$ 4,30,000 has been in existence from June, 1963.

4. Students under the Programme

The General Education Programme was organised this year for the Faculties of Arts, Commerce, Science (including Pre-Medical), Home Science, Fine

Arts and Technology and Engineering. The Programme in each of these Faculties was offered to the first and second year of the Three Year Degree Course as an optional course.

5. Distribution of Courses

The following courses were offered :

- (1) Human Civilization
- (2) Social, Political and Economic Problems of India
- (3) Science and its Impact on Society
- (4) Readings from Literature and Art Appreciation
- (5) On Values of Life.

The above General Education courses are distributed over two years of the Degree courses, though the actual distribution of the courses would differ from Faculty to Faculty and from class to class.

The Advisory Committee for General Education in its meeting held on 15-2-1972 had appointed a Committee to prepare report on reorganising General Education programme and exploring how best it could be integrated in the pattern of Degree courses. Pending that, the Committee felt that the pattern of present General Education programme be changed and that the Department may offer courses which are more utility oriented, the Department worked out the following scheme of programme and offered some of them during the year :

I Utility Courses :

- (1) Plumbing, (2) Carpentry, (3) Wire-man, (4) Spray-work,
- (5) Batick-work, and (6) Clay-modelling etc.,

II Self-learning Courses :

Self-learning courses through audio-visual media could be organised along the following lines :

- (1) Learning a language, (2) Developing study habits, (3) Preparing for examinations, (4) What does the employer expect, (5) The developing World, (6) The World of the Planets, (7) The World of the Atom, (8) The World of the Moon, (9) Thus spoke the Philosophers, (10) Thus spoke the Scientists, (11) Thus spoke the Diplomates, (12) Thus spoke the Political Leaders and (13) Thus spoke the Religious Leaders, etc.

III Exhibitions :

- (1) Exhibition of books, (2) Exhibition of art pieces, (3) Exhibition of fashions, (4) Exhibition of House-hold Sciences and (5) Exhibition of General Biology, etc.

IV Setting up Clubs :

- (1) Listeners' Club, (2) Art Club, (3) Film Club, (4) Science Club, (5) Photography Club, (6) Music Club, (7) Painting Club, (8) Writers' Club, (9) Speakers' Club and (10) Dramatic Club.

V Educational Tours :

Educational tours could be organised keeping in mind the following :

- (1) Know your faith, (2) Know your Industries, (3) Know your people, (4) Know your surrounding, (5) Know your planets, (6) Know your Rivers, and (7) Know your Mountains, etc.

Inter-disciplinary comprehensive special write ups-of each place of visit could be prepared.

VI Practical Art Appreciation :

This programme could be organised on the following lines :

- (1) Display of films and discussion on them, (2) Present drama and evaluate it, and (3) Exhibit art objects and assess them etc.

During the year under report, General Education Programme was offered to the Pre-Medical students on 'Art Education' (lecture/slides) and 'Man, Science & Society'.

6. Teaching Staff

The General Education Centre has a nucleus staff of one Reader and five Lecturers who not only teach General Education and the Pre-University Classes, but also serve as liason and help in the preparation of reading material and organisation of the programmes.

CHAPTER XXX—STUDENT WELFARE ACTIVITIES

1. Halls of Residence

The University being a residential University makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949, the University had accommodation for 200 men in rented buildings and another 200 men in University owned buildings. There was no hostel accommodation for women students. At the end of the year 1973-74, there were twelve Halls of Residence for men and four Halls for women students. One Hall for men is under construction and is likely to be ready for occupation by October, 1974. The general policy of the University is to distribute students from various faculties in different Halls so that every Hall has students from different faculties.

There is a great demand from students for residential accommodation in the University Halls of Residence. In order that the students may not be put to difficulties for searching accommodation in private houses in the city where the rents are exorbitant and facilities comparatively poor, the University had to continue the procedure of admitting 3 students in most of the rooms in the year under review also.

At the end of the year under report, 2473 men and 839 women were in residence in different Halls as against 2368 and 844 respectively at the end of the previous year. The statement showing the break-up of these students by Halls and Institutions is given in Appendix XI.

In the men's Halls of Residence, there is one honorary Warden and in the women's one paid full-time Superintendent to look after the residents. The administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and Wardens' Committee. All Halls have been provided with common rooms which are generally used as Library-cum-Reading room also. Indoor games are also provided in the Halls.

The Chief Warden's Office has a staff of 9 Class III and 2 Class IV employees.

The Central Committee and the following three sub-committees were formed :—(1) Inter-Hostel Food Committee, (2) Inter-Hostel Sports Committee and (3) Inter Hostel Entertainment Committee. The Chief Warden, Halls of Residence was the President of the Central Committee.

On account of the difficult food position, the Food Committee remained busy throughout the year. It represented the difficulties of the Halls to the Government authorities and through their cooperation succeeded in securing

the food stuffs and other commodities at reasonable rates. The Sports Committee arranged the Inter-Hostel competitions in different games. The Entertainment Committee organised a Fun-Fair during the year. In addition to these committees in order to help the Chief Warden, the following sub-committees were also formed.

- (1) Standing Committee,
- (2) Purchase Committee,
- (3) Maintenance Committee.

Students are also members on the Standing Committee. Apart from these Committees each Hall of Residence had its own Executive Committee composed of the student-members duly elected by the students. These committees worked under the guidance of the Wardens. Students participated actively in nearly all matters pertaining to the affairs of the Hall, except finance.

The residents of Hall always responded to all the calls in respect of Famine Relief Campaign, critical food situation, etc.

2. University Health Centre

The staff of the Health Centre consisted of one Medical Officer, one Part-time Lady Doctor, one Nurse, one Sanitary Inspector, one Compounder-cum-Clerk, one Laboratory-cum-X-ray technician, three Hamal-cum-Sweepers and two Honorary Physicians, one Surgen, one Lady Gynaecologist, one male and one female Family Planning doctors and two Family Planning Welfare workers (one male and one female).

The Health Centre provides preventive and curative services to the students, members of the staff and their families. Hostels are visited twice a month—once pre-arranged and other by surprise for inspecting maintenance of sanitation and hygiene in hostels and the attached kitchens.

The new entrants to the University were given a medical check-up by the Medical Inspection Board in S.S.G. Hospital. Out of the total 4629 entrant students scheduled for medical check-up 3727 (80.513) reported. Out of the 3727 students examined, 1646 (44.16) were recommended follow-up treatment to be taken either at the Health Centre, or at the S.S.G. Hospital or at private Clinic for various disorders viz. skin, eye, ear, nose, throat, heart, etc. The follow-up of health check-up was continued till the end of the year. On Miniature Chest X-ray examination of the students during the Medical Check-up 98 students were suspected of T.B. and called at the Health Centre for further scrutiny by way of X-ray and Laboratory investigations. Out of these 98 students, 4 students were found to be suffering from T.B. and were referred to T.B. Hospital for further treatment. They are improving. 2648 S.Y. level students were also called for medical check-up but only 17 students reported for it.

The Mess servants were given health check-up at the Health Centre.

During the year, the total attendance of the patients at the Health Centre Clinic was 24,993 (15,602 students and 9,391 were members of the staff and their families). The average daily attendance was 90.88% during the year.

The total number of Laboratory investigations was 676. The total number of fluroscopy examination was 523 and X-ray film 92. The Health Centre runs a Family Planning Unit for the employees of the University and gives free advice and aids.

It was difficult for the employees staying outside the Campus in the city to take advantage of the Health Centre situated in the University area. To provide health facilities to these employees two centres were established—one near Kothi and other at Bajwada and Pratapnagar area Dr. G. S. Apte is in charge of the centre near Kothi and Dr. N. R. Dalal is in charge of the Centre in Bajwada and Pratapnagar area, A good number of employees and their families availed of the facilities at these two Centres.

3. Physical Education Department

(1) Staff: The staff consisted of one Director, 2 Senior Physical Instructors, 5 Physical Instructors, 2 Swimming Trainers, one Coach and one Clerk.

(2) Physical Training: Physical training was imparted to 1954 men and 1306 women students.

(3) Major Games: (i) Cricket, (ii) Tennis, (iii) Hockey, (iv) Football, (M. & W.), (vi) Kho-kho (M. & W.), (vii) Kabbadi, (viii) Track and Field events (Athletic) (ix) Volleyball (M. & W.), (x) Throwball (xi) Net-ball, (xii) Swimming, (xiii) Boating and (xiv) Shooting.

There were 707 men and 54 women members in Swimming. In Boating, the number was 132 men and 12 women students. Coaches were also appointed for Cricket, Hockey, Tennis, Football Volleyball, Basketball, Swimming, Shooting, Kabbadi and Kho-kho.

(4) Participation in Tournaments and Competitions.

(a) Inter University Tournaments :

Name of the game	Venue	Result	Remarks
(i) Kho-Kho (Women)	Poona	All India Runners up	Lost against Poona in Final
(ii) Kho-Kho (Men)	Poona	Lost in Semi-Final	—

Name of the game	Venue	Result	Remarks
(iii) Cricket	Baroda	Runners up (West-Zone)	Lost against Bombay
(iv) Athletics	Gwalior	One position secured	VI in Decathlon
(v) Badminton	Indoor	Lost in 2nd round	Against Poona
(vi) Table Tennis	Hyderabad	Lost in 2nd round	—
(vii) Hockey (Men)	Kolhapur	Lost in 1st Round	
(viii) Tennis (Men)	Nagpur	Lost in 1st Round	
(ix) Basketball (Men)	Aurangabad	Lost in 1st Round	
(x) Volleyball	Bhopal	Lost in 1st Round	
(xi) Kabaddi	Guntur	Lost in 1st Round	

The University played host and organized the All India Inter-University Cricket Tournament (West Zone) for the Rohinton Baria Trophy in December, 1973. Twenty-one Universities participated. Bombay University was the winner and the M. S. University of Baroda was the Runner up, A Souvenir was published on this occasion

(b) State Tournaments :

(i) Athletic :

Athletic team consisting of four men and one woman participated in State Athletic Championship held at Ahmedabad. Shri M. M. Das secured 1st position in Decathlon and was selected to represent the State in the National Championship and in the Inter-State he secured sixth position.

(ii) Basketball :

Our university women team participated in Gujarat State Championship held at Rajkot. Kum. Usha Patel and Kum. Anjali Padte were selected to represent Gujarat State in National Championship.

(iii) Volleyball (M & W) :

Our men and women teams participated in Gujarat State Championship held at Ahmedabad. Our women team also participated in Mahajan Shakti Dal Volley-ball Competitions at Nadiad.

(iv) *Badminton (M & W)* :

Shri Chand Chatur became Champion in the State Championship held at Ahmedabad. Shri Brahmhatt took General Championship by sweeping all five titles—Men's Singles, Men's Doubles, Mixed Doubles, Boy's Singles and Boy's Doubles, and Kum. Sukhbir and partner became champions in Ladies Doubles in the Open Gujarat State Ranking Championship held at Sikka.

(c) *Other Tournaments* :(i) *Hockey* :

University Hockey Team participated in Baroda District League Tournament, and O.N.G.C. knock-out Tournament. Our team was runner up in Baroda District League Tournament. Shri Harish Patel was adjudged one of the best players.

(ii) *Football* :

Two Football Teams participated in Baroda District Association Football League Tournament and knock-out Tournament organized by the Junior Chamber. We were winners of Baroda District League Tournament. 5 players were selected to represent Baroda District Team.

(iii) *Cricket* :

University A & B teams took part in Zaveri League Tournament and 'A' team participated in Randle Cup and Ghia Trophy.

(iv) *Boating* :

Members of the University Boating Club participated in the competitions organised by Hind Vijay Gymkhana and won prizes.

(v) *Swimming* :

Member of the University Swimming Club participated in the competitions organised by the Baroda District Swimming Association and won prizes.

(vi) *Volley Ball* :

Volley Ball Women Team for the first time participated in Volley Ball Tournament held at Nadiad.

(d) *Campus Tournaments and Competitions* :*Inter-Faculty* :

Games	Winners	Runners
(i) Football	Technology and Engineering	Faculty of Commerce
(ii) Cricket	Faculty of Commerce	Faculty of Law

Other Inter-Faculty Tournaments and Annual Athletic Competitions could not be organised because of the disturbances.

Inter-Group (Intramural) :

These competitions are organised only for those who come and attend regular classes for Physical Education.

Game	Winner	Runner
(i) Kho-Kho (Women)	S.Y.B.Sc. (Home)	Preparatory Commerce
(ii) Throwball (Women)	F.Y.B.Sc. (Home)	F.Y.B.A.

The tournaments for other games could not be organised because of disturbances in the second term.

(5) *Other Important Events* :

(i) Kum. Achala Deore of the Kho-Kho team was awarded the scholarship of Rs. 100/- p.m. by the Inter-University Sports Board.

(ii) Ten women students of the Kho-Kho team secured the Gujarat State Scholarship of Rs. 50/- p.m. each.

(iii) Sarvashri A. D. Gaekwad and V. V. Hazare were selected to represent the West Zone University Team for Vizzy Trophy. Shri A. D. Gaekwad captained the team. Dr. G. M. Oza was selected as the Manager of the West Zone Team for the Vizzy Trophy Tournament held at Delhi in February, 1974.

(iv) Shri A. D. Gaekwad played for the Rest of India XI against the Indian Team which toured to Ceylon.

(v) Sarvashri C. R. Mohite and A. D. Gaekwad were adjudged as the cricketers of the year in the M. S. University to receive Ranji Century award for the year 1972-73 and 1973-74 respectively.

(vi) Kumari Lata George was selected to go to Japan as one of the members of the Indian Women Team in Table Tennis.

(vii) It has been decided to reserve 1% of the total seats in Preparatory Arts, Science and Commerce, for outstanding sports talents.

4. National Cadet Corps(1) *Training* :

Training of the following units started in June-July, 1973 and terminated in February, 1974:

Name of Unit	Officers	Cadets
(i) 3 Gujarat Battalion N.C.C.	8	603
(ii) 12 Gujarat Battalion N.C.C.	4	609
(iii) 1 Gujarat Compo Tech Regt N.C.C.	2	300
(iv) 5 Gujarat Girls Bn. N.C.C.	2	308
(v) 2 Gujarat Naval Unit N.C.C.	4	175
(vi) 1 Gujarat Air Sq. N.C.C.	2	198
(vii) 3 Gujarat Tech Air Sq. N.C.C.	2	56

(2) Camps :

The Units held their Annual Training Camps as shown below :

Unit	Camp	Attended by Offrs. Cadets	
(i) 3 Gujarat Battalion N.C.C.	(a) Combined Annual Training Camp at Dohad from 1-5-73 to 12-5-73	3	43
	(b) Combined Annual Training Camp at Dabhoi from 28-10-73 to 8-11-73	5	85
(ii) 12 Gujarat Battalion N.C.C.	(a) Combined Annual Training Camp at Dohad from 1-5-73 to 12-5-73	3	37
	(b) Combined Annual Training Camp at Dabhoi from 18-10-73 to 8-11-73	3	106
(iii) 1 Gujarat Compo Tecb. Regt N.C.C.	Combined Annual Training Camp at Dabhoi from 28-10-73 to 8-11-73	1	23
(iv) 5 Gujarat Girls Bn. N.C.C.	Combined Annual Training Camp at Kapadwanj from 29-10-73 to 7-11-73	1	136
(v) 2 Gujarat Naval Unit N.C.C.	Combined Annual Training Camp at Padra from 28-10-73 to 8-11-73	1	13
(vi) 1 Gujarat Air Sqn. N.C.C.	Combined Annual Training Camp at Baroda from 13-10-73 to 24-10-73	—	8

(3) Camps and/or Courses :

The following number of Officers and Cadets attended the various camps and/or courses during the year 1973-74 :

Unit	Name of Camp/ Courses	Nos. Attended Offrs. Cadets
(i) 3 Gujarat Bn. N.C.C.	(a) Advanced Leadership Course at Narangi	— 3
	(b) Ins Nau-Sainik Camp, Vishakhapatnam	— 1

Unit	Name of Camp/ Courses	Nos. Attended Offrs. Cadets
	(c) Attachment to regular Army Units	1 8
(ii) 12 Gujarat Bn. N.C.C.	(a) Attachment to regular Army Units	— 11
	(b) Advanced Leadership Course at Manali	— 1
	(c) All India Summer Training Camp at Tiruchirapally	1 4
(iii) 1 Gujarat COMPO REGTL. N.C.C.	(a) Attached to regular Army Units	— 5
	(b) All India Summer Training Camp at Tiruchirapally	— 2
(iv) 5 Gujarat Girls Bn. N.C.C.	(a) Advanced Leadership Course at Mysor	— 1
	(b) All India Summer Training Camp at Pachamari	— 8
	(c) Shooting Competition Camp at Kapadwanj	— 10
	(d) Republic Day Contingent, Delhi	— 1
(v) 2 Gujarat Naval Unit NCC	(a) Advanced Leadership Course at Narangi	— 1
	(b) All Indian Summer Training Camp, Bangalore	— 2
	(c) Advanced Leadership Course at Cochin	— 3
	(d) Ins Nau Sainik Camp, Vishakhapatnam	— 7
	(e) Attachment Ins Dharni	— 2
	(f) Sea Training, Bombay	— 2
	(g) Republic Day Contingent, Delhi	— 2
(vi) 1 Gujarat Air Sqn. NCC	(a) All India Summer Training Camp, Tiruchirapally	— 2
	(b) Advanced Leadership Course, Manali	— 1

Unit	Name of Camp/ Courses	Nas. Attended Offrs. Cadets
	(c) Air Force Attachment	— 2
	(d) All India Vayu Sainik Camp, Shrinagar	1 10
	(e) All India Summer Training Camp, Bangalore	— 1
(vii) 3 Gujarat Tech Air Sqn. NCC	(a) All India Summer Train- ing Camp, Sagaon	— 2
	(b) Air Force Attachment	— 2
	(c) Ins Nau Sainik, Visha- khatnam	— 1
	(d) All India Vayu Sainik Camp, Shrinagar	— 10

(4) *Special Events :*

Silver Jubilee NCC Week was celebrated from 25 Dec., 1973. As a part of the celebrations a cultural show was staged in the University auditorium on 25, 26 and 28 December, 1973. A ceremonial parade was staged at the University Pavilion ground on 30 December, 1973. Both Senior and Junior Division Cadets (Boys and Girls) participated. The parade was followed by various demonstrations of continuity drill, Bayonet Fighting, Semaphore drill, Civil Defence, Platoon attack and Aeromodelling display. Justice N. K. Vakil, Vice-Chancellor of M. S. University, Baroda presided over the function and gave away the prizes.

(5) *Certificate Examinations :*

The examinations for the year under review have not yet been completed due to unforeseen reasons.

(6) *Republic Day Parade :*

7 Boys and 3 Girls under this Group Headquarters were selected for Republic Day parade held at New Delhi on 26 January, 1974. Cdt. under Officer Gujar Udeysing Prataprao of the Faculty of Technology and Engineering belonging to 3 Guj. Tech. Air Sqn. NCC was selected as best cadet of Gujarat State.

(7) *Shooting Competition :*

The team of Senior Division cadets of 3 Gujarat Bn. NCC Baroda stood first in the Inter Group Burdwan Shooting Competition held at Jamnagar.

5. National Service Scheme

(a) *Staff :*

The staff of the National Service Scheme consisted of a Director, a Deputy Director, a Programme Coordinator, 12 N.S.S. Officers, 4 Class III and 3 Class IV employees.

(b) *Students :*

The total number of students enrolled from various Faculties and Institutions under the N.S.S. Programme was 2574—2214 Boys and 360 girls. These students were spread over various groups viz : (1) Construction Group, (2) Co-operative Group, (3) Cultural Group, (4) Film Group, (5) Health and Medical Service Group, (6) Literacy Group, (7) Hobby Group, (8) Mobile Library Group, (9) Services to Physically Handicapped, (10) Youth Welfare Group, (11) Survey Group, (12) Traffic Education Group, (13) Village Group, (14) Padra Project, (15) Friends Society, (16) Y.A.F. Group.

(c) *Youth Against Famine Camps :*

The N.S.S. organised the following Youth Against Famine Camps during April, May and June, 1973 :

Sr. No.	Place	No. of Participants	Duration	Work
		Students		
(1)	Rangpur	61	7-4-73 to 21-4-73	Afforestation
(2)	Khorka	88	7-4-73 to 21-4-73	Lift Irrigation
(3)	Akhteshwar	90	7-4-73 to 21-4-73	Lift Irrigation
(4)	Rangpur	113	21-4-73 to 5-5-73	Afforestation
(5)	Khorka	115	21-4-73 to 5-5-73	Lift Irrigation
(6)	Rajupura	99	21-4-73 to 5-5-73	Kotar Bunding
(7)	Mankodi	110	5-5-73 to 21-5-73	Lift Irrigation
(8)	Rajupura	73	5-5-73 to 21-5-73	Kotar Bunding
(9)	Vaghjipura	107	5-5-73 to 21-5-73	Deepening of per- colation Tank
(10)	Rangpur Jamba }	145	21-5-73 to 3-6-73	Lift Irrigation and Road Construction
(11)	Jamba	98	3-6-73 to 17-6-73	Road Construction
	Total :	1099		(841 Male and 258 Female)

(d) Other Camps:

The N.S.S. also organised the following Camps:

Sr. No.	Place	No. of Participants			Duration	Work
		Students	+	Teachers		
(1)	Rangpur	59	+	1	25-5-73	Orientation (Padra College)
(2)	Rajupura	49	+	1	6, 7-10-73	Orientation
(3)	Boriavi	35	+	1	1-7-73	Orientation
(4)	Shekhadi (Dholka)	69	+	2	1-11-73 to 21-11-73	Rehabilitation
(5)	Fazalpur (Vasad)	43	+	1	20-11-73 to 23-11-73	Camp Planning Camp
(6)	Mota Poshina	38	+	3	5-11-73 to 12-11-73 and 13-11-73 to 16-11-73	Social Service Camp for Hobby Group
		for 9 persons				
(7)	Sewashi	285	+	8	5-1-74 to 7-1-74	Labour Camp
(8)	Chorwad (Junagadh)	60	+	2	29-10-73 to 6-11-73	Programme Planning Camp
(9)	Marwad	79	+	1	20-10-73 to 24-10-73	Programme Planning Camp
(10)	Vedachhi	32	+	1	14-11-73 to 18-11-73	Volunteer Sachiv Camp
(11)	Kotali	35	+	1	9-9-73	One day
	Kotali	72	+	2	12-10-73	Manual Work
	Kotali	27	+	1	21-10-73	
	NSS	26				
	Local	26				
(12)	Rangpur	43	+	1	16-11-73 to 20-11-73	Youth Worker s Camp
(13)	Karadi	55	+	3	4-11-73 to 9-11-73	Leadership Training Camp
(14)	Rajpipla	40	+	1	21-11-73 to 25-11-73	Youth Welfare Training

Sr. No.	Place	No. of Participants			Duration	Work
		Students	+	Teachers		
(15)	Galabpura	63	+	3	22-9-73 to 23-9-73	Flood Relief Camp
(16)	Gujarat Vidyapeeth (Ahmedabad)	59	+	1	13-10-73 to 14-10-73	Study Camp of Literacy Group
(17)	Jambughoda	48	+	2	30-9-73	Orientation
(18)	Community Development Week:					
	Padra	26	+	1	} In the month of October	} One day Camps
	Dabhoi	74	+	1		
	Waghodia	20	+	1		
(19)	Guidance and Information Centres at different Faculties and Institutions			31	3-6-73 to 11-6-73	
(20)	Pawagadh	64	+	1	15-8-73	Orientation
(21)	Ajwa	33	+	1	22-7-73	Camp
(22)	Rajupura	36	+	1	15-11-73 to 22-11-73	Social Service Camp
(23)	Vedchhi	32	+	1	10-11-73 to 16-11-73	Achievement Motivation Camp
(24)	Vejalpur	21	+	1	} 11, 12-8-73 25-8-73 22-9-73 6-10-73	} Village Camps
	II	16	+	1		
	III	11	+	1		
	IV	4	+	1		

(e) Visits:

(1) A study tour was arranged on 16-12-1973 for one teacher and 43 volunteers of Physically Handicapped Group at Ahmedabad to visit the Blind Association and Blind Home.

(2) Visits were arranged for one teacher and 34 students of Construction Group at G.S.F.C. and Experimental Farm.

(f) Gujarat State YAF Evaluation Meet: 7th and 8th July, 1973:

The N.S.S. organised the above Meet in collaboration with the YAF State Co-ordinating Committee for the purpose of conducting informal evaluation

of YAF Gujarat Camps by Camp Organisers, Campers and Project holders. 123 delegates from all over the Universities of Gujarat attended. About 70 YAF Camps were organised in Gujarat. The Meet which was presided over by Shri Narayan Desai was graced by Justice Shri N. K. Vakil, Dr. R. N. Mehta, Dean, Faculty of Arts and Shri Babalbhai Mehta. The Meet complimented the University and Community Youths for building up permanent assets in the Famine-stricken areas.

(g) *Programme Seminar:*

With a view to strengthen the activities of the volunteers a Programme Seminar was held on 2-8-1973 in which 25 Heads of Social Welfare Agencies participated. The Seminar suggested that the N.S.S. should carry out Educational-cum-Service Projects for the volunteers in collaboration with the Agencies.

(h) *Celebration of Community Development Week :*

As per directive of Government of India, the Community Development Week was celebrated from 2nd to 8th October, 1973 for providing exposure to students in rural areas, 180 students and 4 Teachers (27 visited Dabhoi, 75 visited Padra, 21 visited Waghodia and 61 visited Savali) paid visits to different Community Development Blocks, namely Padra, Savali, Waghodia and Dabhoi. The T.D.O's and the Presidents of Taluka Panchayat explained the programmes of Extension Work which were carried out by the Blocks.

(i) *Achievements of N.S.S. Volunteers :*

- (1) Dug 55,698 feet long irrigation channels bringing about 850 acres of land under irrigation at Akhteshwar and Chhota-Udepur.
- (2) Did terracing of 6174 meters in 6 hectameters at Rangpur in Chhota-Udepur forests.
- (3) Constructed 1200 feet long and 16 feet wide road at Rangpur.
- (4) Levelled 140 bras in Farms at Kailash Ashram Rajpura.

6. Students' Common Rooms

There are three Common Rooms for University students. Two Rooms are on the campus—one for men students and the other for women students. The third room generally known as Non-Resident Students' Centre is near the Faculty of Technology and Engineering. The women students' common room and the Non-Resident Students' Centre were built with financial assistance from the University Grants Commission and the State Government.

A cafeteria is attached to each of the three Common Rooms. There are facilities for indoor games such as carrom, draughts, chess, table tennis, etc.

and reading material like daily newspapers, periodicals and a small collection of books. Committees consisting of the members of the teaching staff look after the upkeep and arrangements of the rooms. The rooms are also used for meetings of the Students' Association, Socials, Indoor games and tournaments.

7. Hobby Workshop

The M. S. University Hobby Workshop provided instructions to 144 students in various hobbies during 1973-74 as mentioned below :

<i>Hobby</i>	<i>Students</i>
(i) Carpentry	15
(ii) Assembling electrical and electronic appliances	15
(iii) Music	30
(iv) Clay-Modelling	15
(v) Photography	50
Total :	125

8. University Employment Information and Guidance Bureau

The Bureau carried out the following activities :

	<i>Number of students</i>
(i) Registration of students	725
(ii) Submission	2621
(iii) Placement	89
(iv) Supply of information to individuals	1560
(v) Guidance to students	1
(vi) Group Talks	48
(vii) Visitors	2564

The Bureau also conducted courses in Stenography, English and Gujarati Typewriting under Educated Unemployment Relief Scheme of the Government of Gujarat.

Sr. No.	Institution	*Post-graduate Courses		Degree Courses		Diploma Courses		Grand Total 1973-74	Grand Total 1972-73	Grand Total 1971-72
		Men	Women	Men	Women	Men	Women			
		Total								
1	Faculty of Arts	222	172	973	868	46	10	1241	1050	2291
2	Faculty of Science	304	124	784	392	17	—	1105	516	1621
3	Faculty of Education and Psychology	90	43	84	231	—	20	174	294	468
4	Faculty of Commerce	300	52	1931	672	16	2	2247	726	2973
5	Faculty of Medicine	98	49	555	76	—	—	653	125	778
6	Faculty of Technology and Engineering	88	1	2258	67	274	—	2620	68	2688
7	Faculty of Fine Arts	15	8	58	45	†120	†9	193	62	255
8	Faculty of Home Science	3	116	—	599	—	—	3	715	718
9	Faculty of Social Work	52	37	—	—	—	—	52	37	89
10	Faculty of Law	294	22	602	108	—	—	896	130	1026
11	Preparatory Unit—Arts and Commerce	—	—	935	619	—	—	935	619	1554
12	Preparatory Unit—Science	—	—	873	204	—	—	873	204	1077
13	M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	1292	81	—	—	1292	81	1373
14	College of Indian Music, Dance and Dramatics	12	10	40	41	—	—	52	51	103
15	Baroda Sanskrit Mahavidyalaya	9	2	9	2	27	5	45	9	54
16	Polytechnic	—	—	—	—	1478	5	1478	5	1483
TOTAL...		1,487	636	10,394	4,005	1,978	51	13,619	4,692	18,551

* Includes Ph.D., Master Degree and Post-graduate Diploma students.

† Includes Post-Diploma Students.

Statement showing the number of Non-University Students in the year 1973-74

Institution	Men	Women	Total 1973-74	Total 1972-73	Total 1971-72
(A) Diploma Courses :					
(1) College of Indian Music, Dance and Dramatics	354	294	648	675	548
(B) Certificate Courses :					
(1) Faculty of Arts	335	58	393	525	301
(2) Faculty of Fine Arts	12	—	12	3	10
(3) Baroda Sanskrit Mahavidyalaya	68	1	69	58	60
(C) S.S.C. Courses :					
(1) University Experimental School	271	237	508	515	492
(D) Nursery Courses :					
(1) Chetan Balwadi	31	26	57	61	71
(2) Kindergarten	22	6	28	24	14
Total :	1093	622	1715	1861	1496

List of Degrees and Diplomas conferred at the Annual and Supplementary
Convocations during the year 1973-74

Sr. No.	Degree/Diploma	Annual Convocation December 1973	Supplementary Convocation March 1974	Total
1	Ph.D. (Arts)	3	5	8
2	Ph.D. (Science)	18	5	23
3	Ph.D. (Edu. & Psy.)	15	4	19
4	Ph.D. (Medicine)	3	—	3
5	Ph.D. (Home Science)	—	1	1
6	M.D.	11	12	23
7	M.S.	5	8	13
8	M.A.	111	—	111
9	Acharya	5	—	5
10	B.A.	670	55	725
11	Shartri	4	—	4
12	Bach. of Lib. Sc.	17	—	17
13	M.Sc.	139	—	139
14	B.Sc.	264	56	320
15	M.Ed.	33	1	34
16	B.Ed.	184	3	187
17	M.Com.	40	—	40
18	B.Com.	749	88	837
19	P. G. Dip. in Banking	41	4	45
20	P. G. Dip. in Co.-op.	3	—	3
21	M.Sc. (Medical)	2	2	4
22	M.B.B.S.	42	89	131
23	B.Physiotherapy	7	3	10
24	D.O.	1	4	5
25	D.A.	1	3	4
26	D.C.H.	1	2	3
27	D.V. & D.	1	1	2
28	D.G.O.	4	3	7
29	M.E.	4	13	17
30	M.Text. (Engg.)	3	1	4
31	B.Tech.	—	15	15
32	B.E.	337	9	346

Sr. No.	Degree/Diploma	Annual Convocation December 1974	Supplementary Convocation March 1974	Total
33	B.Text (Engg.)	10	—	10
34	B.Text (Tech.)	23	3	26
35	B.Arch.	25	13	38
36	P.G. Dip. in Ref. & Air-Cond.	—	2	2
37	LL.M.	6	—	6
38	LL.B. (Special)	40	5	45
39	LL.B. (General)	82	34	116
40	D.T.P.	62	6	68
41	D.L.P.	24	2	26
42	M.Mus.	3	—	3
43	B.A. Fine	9	—	9
44	Dip. in Museology	—	2	2
45	B.Mus.	11	—	11
46	M.Sc. (Home)	16	14	30
47	B.Sc. (Home)	104	21	125
48	Dip. in Nurs. Sch. Edu,	12	1	13
49	Dip. in Dietetics	17	—	17
50	M.S.W.	27	4	31
		3189	494	3683

Statement showing the number of Teaching Staff of various Faculties and Institutions as on 31st March, 1974

Institution	Pro-fessors	Readers	Lecturers	Teaching	Hono-	Total
				Assistants Lecturers Senior/ Junior Instru- ctors	rary Part- time Re- search and others	
Arts	11	21	62	2	4	100
Science	13	26	133	—	—	172
Education and Psychology	4	8	19	1	—	32
Commerce	2	8	17	—	6	33
Technology and Engineering	17	39	117	32	8	213
Fine Arts	2	7	20	2	1	32
Home Science	3	7	33	14	—	57
Social Work	1	2	9	—	—	12
Law	1	2	2	—	12	17
Oriental Institute	1	1	5	—	—	7
College of Indian Music, Dance and Dramatics	1	3	13	22	6	45
Baroda Sanskrit Mahavidya- laya	—	1	3	9	1	14
Polytechnic	1	3	55	26	7	92
M. K. Amin Arts and Science College and College of Commerce, Padra	—	1	24	4	7	36
Total :	57	129	512	112	52	862

List of Students qualifying for the Ph.D. degree during the year 1973-74

Sr.No.	Name	Subject	Title of the Thesis
Faculty of Arts			
1	Shri Surajbhan Ratansingh Chaudhari	Archaeology	Prehistoric Archaeology of the Sarasvati and Drisadvati Valleys (Haryana) (C 2300—1500 BC)
2	Shri Swarnakamal Bhowmik	Archaeology	Early Copper and Bronze Tech- nology of Gujarat
3	Shri Bakulrai Harshadrai Dholakia	Economics	The Sources of Economics Growth in India.
4	Shri Dinanath Bhalchandra Gupte	Economics	Exports in a developing Economy: A case study of India.
5	Shri Babubhai Bhaichand Patel	Economics	The structure of Inter-District, Inter-Sectoral, and Inter-Industry Wage—Differentials in Gujarat.
6	Shri Manoharnath Manishanker Vyas	Hindi	Hindi Avam Gujarati Ke Bhramar Geet Kavya Ka Tulnatamak Adhyayan.
7	Shri Vishnuprasad Bajjnath Chaturvedi	Hindi	Goshwami Hariray Aur Unka Brajbhasha Sahitya.
8	Shri Gajanan Shivanath Purohit	Hindi	Prasad Aur Nanalal Ke Kavyo Ka Tulnatmak Adhyayan.
9	Shri Dasharathlal Gaurishanker Vedia	Sanskrit	Venkatadhrins Vishvaganadarsa- compy. A critical study.
Faculty of Science			
10	Shri C. Gopinathan Kartika	Physics	Ultrasonic studies of Liquid crystals.
11	Kumari Saroj Gordhanbhai Patel	Chemistry	Studies in Phenylstyryl Ketones and Flavones.
12	Shri N. Radha- krishnan	Zoology	Historical and histo-physiological studies on the normal and regenera- tion tail of the Scincid Lizard Mabuya Carinata

Sr.No.	Name	Subject	Title of the Thesis
13	Shri Dineshchandra Mahendralal Dholakia	Bio-Chemistry	Arginine Metabolism in Plant Tumour Tissues.
14	Shri N. V. Mani	Chemistry	Studies in Isoflavones.
15	Shri Shreekrishna Vinayak Deshpande	Geology	Geology of the Wagad hills eastern Kutch with special reference to stratigraphy and structure.
16	Shri Piyaro Lal Ganju	Micro-Biology	Studies on some chains species and their Antibiotics.
17	Shri Bharat Jaidevbhai Mehta	Physics	Optical study of Etch and Dehydration Figures on crystal surfaces.
18	Shri Vinod Bhavanbhai Gohel	Physics	Study of Potential Energy functions of some Ionic Diatomic Molecules.
19	Kumari Sheela Sirkar	Botany	The Respiratory Processes of Manganese Toxic Cotton Plants.
20	Shri Ishwarlal Popatlal Mavani	Chemistry	Studies in some Metallic complexes in mixed ligand systems.
21	Kumari Nandini Vishwanath Vaishampayan	Physics	Optical studies on crystal surfaces selenium.
22	Shri Chandrashekhar Rangnath Jejurkar	Chemistry	Studies in heterochelates of some Transition Metal Ions.
23	Kumari Elizabeth Jacob	Bio-Chemistry	Studies on Brain Metabolism.
24	Shri Shirish Gajanan Palkar	Statistics	Some Problems of Educational statistics in group prediction of College success.
25	Shri Kiritkumar Bapalal Shah	Chemistry	Metal Complexes of Oximino Ligands.
26	Shri Champaklal Punjalal Shah	Geology	Geology of the Area around Garampani District Nainital, U.P.
27	Shri Satyendra Narayanrao Padte	Botany	Studies on the Flora and Vegetation of Savli Taluka.
28	Shri Devendra Pal	Geology	Geology of the area around Nainital, Dist.: Nainital, U.P.

Sr.No.	Name	Subject	Title of the Thesis
29	Kumari Manjusha Chakrvarty	Physics	Study of the spectra of some Diatomic Molecules (CsF and Br ₂).
30	Shri Purshottam Deokrishna Kulkarni	Botany	Primary Productivity of Periphyton and Macrophytes in Sayaji Sarovar at Baroda, India.
31	Shri Bhaskar Roy	Geology	Pattern and causes of Inundation of the Rann of Kutch.
Faculty of Education and Psychology			
32	Shri Kuldip Kumar	Education	Social Climate in School and characteristics of Pupils.
33	Shri Zahiruddin Mansooruddin Quraishi	Education	Personality Attitudes and Classroom behaviour of Teachers.
34	Shri Nand Kishore Jangira	Education	Classroom Behaviour Training of Teachers and its Relationship with some selected measures of pupils Effectiveness.
35	Smt. Sushma Nirmal Bhagia	Education	Perception of the characteristics of Innovation related to their diffusion in the schools of Gujarat.
36	Kumari Sumitra Lallubhai Patel	Psychology	An Investigation to study self-esteem changes as a function of counselling Therapy.
37	Shri Romeshchandra Kalyanrao Parlikar	Psychology	An Investigation to study Vocational Maturity of High School students.
38	Shri Narendra Nath Pangotra	Psychology	A study of the effect of Feedback from different sources on the classroom behaviour of student-teachers using the technique of Interaction Analysis.
39	Smt. Kalpana Moreshwar Pandit	Psychology	The Adjustment problems of the gifted Children and their Reaction to Frustration.
40	Shri Kulin Dhimantram Pandya	Education	Standardization of a language ability test in Gujarati for College Entrants.

Sr.No.	Name	Subject	Title of the Thesis
41	Shri Gajanan Raghunath Sudame	Education	A study of the Effect of Library use of Academic Achievement of post-graduate students in the M. S. University of Baroda.
42	Shri Gadiraju Pattebhiram	Education	An Evaluation of Nationalized Text-book for Higher Classes in Social Studies in Secondary Schools of Andhra Pradesh.
43	Shri V.L.N. Reddy	Education	A study on certain Factors Associated with Academic Achievements in the First Year Degree Examination.
44	Shri Jagdish Chimanlal Parikh	Psychology	A study of some perceptual characteristics as related to Personality.
45	Shri Mukundlal Chandulal Shah	Education	The Scope, Utility and Limitation of Educational Television in India.
46	Shri Motilal Ramlalji Sharma	Education	An Investigation into Organizational climate of Secondary School of Rajasthan.
47	Kumari Saraswati Shantipriya Pandit	Education	A Critical study of the contribution of the Arya Samaj to India Education.
Faculty of Medicine			
48	Shri Purshottam Bhogilal Shah	Bio-chemistry	Studies on Acid Base and Electrolyte status in the National Infants.
49	Shri Sureshchandra Chimanlal Parikh	Bio-chemistry	Studies on Carbohydrate Metabolism in the National Infant.
50	Shri Dhananjay Ichharam Panchal	Pharmacology	Role of Acetylcholine in Adrenergic Nerve Transmission.
Faculty of Home Science			
51	Smt. Anjali Dhawal Mehta	Child Development	Sex Role Identification in Pre-School Children.
Faculty of Technology and Engineering			
52	Shri Kiritkumar Keshavlal Thakkar	Electrical Engineering	Developments in Static Relays for Transmission line protection.

Results of the University Examinations of March/April, 1973.

Sr. No.	Examination	Number Passed																		Percentage of Passes
		Number appeared									Number Passed									
		Men									Women									
1																				19
		No. Regd.	No. Absent	Men	Women	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	Grand Total			
1	Prep. Arts	1275	25	812	438	1250	—	4	66	293	363	—	12	86	170	268	631	50.76%		
2	F.Y.B.A.	823	22	463	338	801	—	9	55	166	230	—	14	119	120	253	483	59.57%		
3	*S.Y.B.A.	660	27	442	191	633	—	—	—	153	153	—	—	—	194	194	347	55.29%		
4	T.Y.B.A.	818	23	472	323	795	3	12	95	180	290	2	19	177	203	401	691	87.34%		
5	*M.A. (Part I)	159	10	87	62	149	—	—	—	80	80	—	—	—	58	58	138	90.62%		
6	M.A. (Part II)	115	4	64	47	111	—	11	22	24	57	1	8	24	12	45	102	94.36%		
7	M.A. (O. C.)	8	2	5	1	6	—	—	1	4	5	—	—	—	1	1	6	100.00%		
8	Acharya	5	—	4	1	5	—	—	2	1	4	—	—	—	—	—	5	100.00%		
9	Shastri	5	—	4	1	5	—	—	—	1	4	—	—	—	—	—	5	100.00%		
10	Bachelor of Lib. Science	22	—	5	17	22	—	—	2	—	2	—	2	10	3	15	17	77.27%		
11	P.G. Dip. in German Lang.	6	3	3	—	3	—	—	—	—	3	—	—	—	—	—	3	100.00%		
12	Dip. in German Lang.	31	2	26	3	29	—	9	12	2	23	—	3	—	—	—	26	89.65%		
13	Dip. in Russian Lang.	5	2	3	—	3	—	1	1	—	2	—	—	—	—	—	2	66.66%		
14	Prep. Science	1230	21	1034	175	1209	—	178	274	167	619	—	34	48	33	115	734	60.63%		
15	Pre-Medical	158	—	137	21	158	—	53	66	12	131	—	9	8	2	19	150	48.8%		
16	F.Y.B.Sc.	376	6	253	117	370	—	15	42	42	99	—	15	38	24	79	176	47.84%		
17	*S.Y.B.Sc.	425	9	288	128	416	—	—	—	—	186	186	—	—	108	108	294	70.84%		

* No Class is awarded.

18	T.Y.B.Sc.	423	9	286	128	414	13	27	69	48	157	7	28	47	20	102,259	63.32%		
19	*M.Sc. (Previous)	214	8	161	45	206	—	—	—	125	125	—	—	—	44	44	169	82.44%	
20	M.Sc. (Final)	146	2	109	35	144	1	31	45	23	100	3	12	16	3	34	134	94.64%	
21	M.Sc. (Appl. Geology)	3	—	3	—	3	—	2	1	—	3	—	—	—	—	—	3	100.00%	
22	(M.Ed.	38	1	29	8	37	—	1	18	2	21	—	2	4	—	6	27	90.00%	
23	(B.Ed.	188	—	82	106	188	—	9	66	5	80	—	7	91	2	100	180	99.44%	
24	(Dip. in Early Childhood Edu.	18	1	—	17	17	—	—	—	—	—	—	1	11	5	17	17	94.44%	
25	Prep. Commerce	1304	18	998	288	1286	2	74	301	295	669	2	27	115	87	229	898	70.15%	
26	F.Y.B.Com.	1311	40	968	303	1271	—	36	198	322	556	—	20	105	95	220	776	60.10%	
27	*S.Y.B.Com.	1165	53	926	186	1112	—	—	—	576	576	—	—	—	135	135	711	64.19%	
28	T.Y.B.Com.	1004-31	—	—	—	973	2	44	281	257	584	—	8	69	66	143	727	74.71%	
29	*-do-(under O.Com. 25)	3	—	2	1	3	—	—	—	—	—	—	—	—	1	1	1	33.33%	
30	*-do-(under O.Com. 27)	26	2	20	4	24	—	—	—	13	13	—	—	—	5	5	18	75.00%	
31	*M.Com.—Part I	53	9	41	3	44	—	—	—	33	33	—	—	—	2	2	35	79.55%	
32	M.Com.—Part II	41	2	31	8	39	—	—	—	10	20	30	—	1	6	1	8	38	97.43%
33	M.Com. (O. C.)	2	—	2	—	2	—	—	—	1	1	2	—	—	—	—	—	2	100.00%
34	*P.G.Dip. in Banking	51	3	34	14	48	—	—	—	31	31	—	—	—	10	10	41	85.41%	
35	*P.G.Dip. in Co-operation	5	—	4	1	5	—	—	—	2	2	—	—	—	1	1	3	60.00%	
36	*U.G.Dip. in Co-operation	11	1	8	2	10	—	—	—	6	6	—	—	—	2	2	8	88.88%	
37	*II M.B.,B.S.	129	1	112	16	128	—	—	—	57	57	—	—	—	11	11	68	53.13%	
38	*II M.B.,B.S. (July, 1973)	66	2	59	5	64	—	—	—	50	50	—	—	—	5	5	55	85.94%	
39	*III M.B.,B.S.	37	—	33	4	37	—	—	—	31	31	—	—	—	4	4	35	94.60%	
40	*III M.B.,B.S. (Condensed)	5	—	3	2	5	—	—	—	1	1	—	—	—	1	1	2	40.00%	
41	*M.D. (Br. I—Medicine)	7	—	7	—	7	—	—	—	2	2	—	—	—	—	—	2	28.56%	
42	*M.D. (Br. II—Pathology)	2	—	1	1	2	—	—	—	—	—	—	—	—	—	—	—	00.00%	
43	*M.D. (Br. III—Pharmacology)	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	100.00%	
44	*M.D. (Br. V—Obst. & Gyna.)	4	—	1	3	4	—	—	—	—	—	—	—	—	2	2	2	50.00%	
45	*M.D. (Br. VI—Paediatrics)	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%	
46	*M.D. (Br. VII—Anaesthesia)	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.00%	
47	*M.D. (Br. VIII—Prev. & Soc. Med.)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%	
48	*M.S. (Br. I—Surgery)	6	—	6	—	6	—	—	—	4	4	—	—	—	—	—	4	45.45%	
49	*M.S. (Br. III—Ortho.)	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	00.00%	

* No Class is awarded.
 ‡ From 1968 Examination, Grades are awarded to the candidates but the results are declared in classes (i.e. I Class Dist., I Class, II Class and Pass Class).

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
50	*M.S. (Br. V—Ophthalmology)	3	—	3	—	3	—	3	—	—	—	—	—	—	—	1	1	1	33.33%		
51	*Dip. in Lab. Techniques	8	—	8	1	—	8	—	—	—	8	8	—	—	—	—	—	8	100.00%		
52	*Dip. in Ophthalmology	1	—	1	—	1	—	1	—	—	—	—	—	—	—	—	—	1	100.00%		
53	*Dip. in Anaesthesiology	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100.00%		
54	*Dip. in Child Health	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	50.00%		
55	*Dip. in Venereology & Dermatology	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100.00%		
56	*Dip. in Clinical Pathology	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%		
57	*Dip. in Tuberculous Diseases	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%		
58	*Dip. in Obstetrics & Gynaecology	5	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	4	80.00%		
59	M.Sc. (Medical)—Part I	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%		
60	M.Sc. (Medical)—Part II	3	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	66.66%		
61	*F.Y.B. Physiotherapy	13	—	—	—	—	—	—	—	—	—	—	—	—	—	5	5	7	53.84%		
62	*S.Y.B. Physiotherapy	11	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	3	7	63.63%	
63	*T.Y.B. Physiotherapy	11	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	5	7	63.63%	
64	*F.Y.B. Physiotherapy (Suppl.)—June, 1973	5	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	4	80.00%		
65	*S.Y.B. Physiotherapy (Suppl.)—June, 1973	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
66	F.Y. Dip. (CME)	425	5	419	1	—	420	—	—	—	—	1	1	—	—	—	—	—	1	50.00%	
67	S.Y. Dip. (CME)	209	2	211	1	—	212	—	—	—	—	13	59	39	111	—	—	—	160	37.82%	
68	*I Sem. of S.Y. Dip. (CME)—Extd. Course	76	11	65	—	65	—	65	—	—	—	20	20	—	—	—	—	—	111	51.86%	
69	II Sem. of S.Y. Dip. (CME)—Extd. Course	64	2	62	—	62	—	62	—	2	4	16	22	—	—	—	—	—	22	35.48%	
70	*I Sem. of Final Year Dip. (C.M.E.)—Extd. Course	1	—	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	—	100.00%	
71	*I Sem. of Final Year D.M.E.—Extd. Course	7	1	6	—	6	—	6	—	—	—	2	2	—	—	—	—	—	—	—	
72	*I Sem. of Final Year D.E.E.—Extd. Course	10	2	8	—	8	—	8	—	—	—	6	6	—	—	—	—	—	2	33.33%	
																				6	75.00%

* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
73	II Sem. of Final Year																		
	D.C.E.—Extd. Course																		
74	II Sem. of Final Year	4	—	4	—	4	—	4	—	—	2	2	—	—	—	—	—	—	2
	D.M.E.—Extd. Course	8	1	7	—	7	—	7	—	—	3	3	—	—	—	—	—	—	3
75	II Sem. of Final Year	11	3	8	—	8	—	8	—	—	4	4	—	—	—	—	—	—	4
	D.E.E.—Extd. Course	57	1	56	—	56	—	56	—	15	20	16	51	—	—	—	—	—	51
76	Diploma in Civil Engg.	111	5	108	—	108	—	108	—	12	24	18	54	—	—	—	—	—	54
77	Diploma in Mech. Engg.																		
78	*Diploma in Mech. Engg. (Under O.T.E. 155)	27	—	27	—	27	—	27	—	—	26	26	—	—	—	—	—	—	26
79	Diploma in Elect. Engg.	81	4	77	—	77	—	77	—	9	13	18	40	—	—	—	—	—	40
80	*Diploma in Elect. Engg. (Under O.T.E. 162)	56	4	52	—	52	—	52	—	—	30	30	—	—	—	—	—	—	30
81	D.T.C.	26	1	25	—	25	—	25	—	3	4	7	14	—	—	—	—	—	14
82	D.T.C. (Under O.T.E. 184)	85	3	82	—	82	—	82	—	17	38	16	71	—	—	—	—	—	71
83	D.T.T.	24	1	23	—	23	—	23	—	6	8	5	19	—	—	—	—	—	19
84	*I Sem. of F.Y. Dip. (OPF)	11	2	9	—	9	—	9	—	—	5	5	—	—	—	—	—	—	5
85	II Sem. of F.Y. Dip. (OPF)	52	—	52	—	52	—	52	—	4	21	12	37	—	—	—	—	—	37
86	*I Sem. of S.Y. Dip. (OPF)	25	—	25	—	25	—	25	—	—	12	12	—	—	—	—	—	—	12
87	II Sem. of S.Y. Dip. (OPF)	91	—	91	—	91	—	91	—	8	31	19	58	—	—	—	—	—	58
88	F.Text. (Engg. & Tech.)	46	—	46	—	46	—	46	—	2	9	14	3	28	—	—	—	—	28
89	S.Text. (Engg. & Tech.)	53	—	53	—	53	—	53	—	3	20	8	31	—	—	—	—	—	31
90	T.Text. (Engg.)	18	—	18	—	18	—	18	—	2	15	—	17	—	—	—	—	—	17
91	T.Text. (Tech.)	34	—	34	—	34	—	34	—	1	7	21	—	—	—	—	—	—	29
92	B.Text. (Engg.)	11	—	11	—	11	—	11	—	2	6	—	10	—	—	—	—	—	10
93	B.Text. (Tech.)	27	—	27	—	27	—	27	—	1	9	13	—	—	—	—	—	—	23
94	*M.Text.—Part I	4	—	4	—	4	—	4	—	—	2	2	—	—	—	—	—	—	2
95	*M.Text.—Part II	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	2
96	*M.Text.—Part III	4	—	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	4
97	M.Text.—Part IV	3	—	3	—	3	—	3	—	2	1	—	—	—	—	—	—	—	3

*No Class is awarded.

98	*I Sem. of B.E. I (CME., Chem., Met.)	136	1	135	—	135	—	135	—	—	88	88	—	—	—	—	—	—	88
99	II Sem. of B.E. I (CME., Chem., Met.)	443	—	443	—	443	—	443	—	18	52	159	56	285	—	—	—	—	285
100	*I Sem. of B.E. II (CME., Chem., Met.)	161	2	159	—	159	—	159	—	—	60	60	—	—	—	—	—	—	60
101	II Sem. of B.E. II (CME., Chem., Met.)	412	2	410	—	410	—	410	—	22	51	142	54	269	—	—	—	—	269
102	*I Sem. of B.E. III (CME., Chem., Met.)	110	2	108	—	108	—	108	—	—	42	42	—	—	—	—	—	—	42
103	II Sem. of B.E. III (CME., Chem., Met.)	330	2	328	—	328	—	328	—	16	58	133	34	241	—	—	—	—	241
104	*I Sem. of B.E. IV (CME., Chem., Met.)	74	3	71	—	71	—	71	—	—	46	46	—	—	—	—	—	—	46
105	II Sem. of B.E. IV (CME., Chem., Met.)	338	3	335	—	335	—	335	—	34	50	125	44	253	—	—	—	—	253
106	*I Sem. of B.E. V (Civil)	1	—	1	—	1	—	1	—	—	1	1	—	—	—	—	—	—	1
107	*I Sem. of B.E. V (Mech.)	1	—	1	—	1	—	1	—	—	1	1	—	—	—	—	—	—	1
108	*I Sem. of B.E. V (Elect.)	8	—	8	—	8	—	8	—	—	4	4	—	—	—	—	—	—	4
109	*I Sem. of B.E. V (Chem.)	9	—	9	—	9	—	9	—	—	6	6	—	—	—	—	—	—	6
110	*I Sem. of B.E. V (Met.)	3	—	3	—	3	—	3	—	—	3	3	—	—	—	—	—	—	3
111	*I Sem. of B.E. V (Electro.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
112	II Sem. of B.E. V (Civil)	82	—	82	—	82	—	82	—	28	39	13	—	80	—	—	—	—	80
113	II Sem. of B.E. V (Mech.)	94	1	93	—	93	—	93	—	55	31	6	—	92	—	—	—	—	92
114	II Sem. of B.E. V (Elect.)	63	—	63	—	63	—	63	—	8	16	28	2	54	—	—	—	—	54
115	II Sem. of B.E. V (Chem.)	42	2	40	—	40	—	40	—	17	11	8	1	37	—	—	—	—	37
116	II Sem. of B.E. V (Met.)	39	—	39	—	39	—	39	—	12	16	10	1	39	—	—	—	—	39
117	II Sem. of B.E. V (Electro.)	17	—	17	—	17	—	17	—	8	7	2	—	17	—	—	—	—	17
118	*I Sem. of B.E. I (Electro.)	4	—	4	—	4	—	4	—	—	2	2	—	—	—	—	—	—	2
119	II Sem. of B.E. I (Electro.)	27	—	27	—	27	—	27	—	2	7	10	—	19	—	—	—	—	19
120	*I Sem. of B.E. II (Electro.)	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—
121	II Sem. of B.E. II (Electro.)	25	—	25	—	25	—	25	—	3	5	10	1	19	—	—	—	—	19
122	*I Sem. of B.E. III (Electro.)	7	—	7	—	7	—	7	—	—	4	4	—	—	—	—	—	—	4
122	II Sem. of B.E. III (Electro.)	20	—	19	—	19	—	20	—	—	5	11	1	17	—	—	—	—	17

* No. Class is awarded.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
123			9	—	9	—	9	—	—	—	—	6	6	—	—	—	—	6	66.66%
124			14	2	12	—	12	—	—	—	—	5	5	—	—	—	—	5	41.66%
125			14	3	10	1	11	—	—	—	—	3	3	—	—	—	—	3	27.27%
126			7	—	7	—	7	—	—	—	—	6	6	—	—	—	—	6	85.72%
127			3	—	3	—	3	—	—	—	—	2	2	—	—	—	—	2	66.66%
128			5	—	5	—	5	—	—	—	—	5	5	—	—	—	—	5	100.00%
129			7	—	7	—	7	—	—	—	—	7	7	—	—	—	—	7	100.00%
130			10	—	10	—	10	—	—	—	—	10	10	—	—	—	—	10	100.00%
131			7	—	7	—	7	—	—	—	—	7	7	—	—	—	—	7	100.00%
132			1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100.00%
133			2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	2	100.00%
134			1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100.00%
135			5	—	5	—	5	—	—	—	—	3	3	—	—	—	—	3	60.00%
136			1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100.00%
137			7	—	7	—	7	2	2	3	2	—	7	—	—	—	—	7	100.00%
138			2	—	1	1	2	—	—	—	—	1	1	—	—	—	—	1	2 100.00%
139			42	—	31	11	42	1	3	19	2	25	—	1	9	—	10	35	83.33%
140			11	—	11	—	11	—	—	—	—	8	8	—	—	—	—	8	72.73%
141			39	—	32	7	39	—	—	—	10	11	21	—	4	3	7	28	71.79%
142			42	1	30	11	41	—	2	10	6	18	1	1	6	1	9	27	65.84%
143			47	4	36	7	43	2	2	11	5	20	—	5	—	5	25	59.52%	
144			401	115	237	49	286	—	3	41	20	64	—	10	5	15	79	27.62%	
145			137	12	114	11	125	—	—	68	7	75	—	6	1	7	82	65.60%	
146			51	4	42	5	47	—	—	32	4	36	—	1	2	3	39	84.78%	
147			116	16	91	9	100	†	—	—	58	59	—	—	3	3	62	62.62%	
148			47	8	31	8	39	—	—	—	20	20	—	—	4	4	24	61.53%	
149			21	7	11	3	14	—	—	—	4	4	—	—	2	2	6	42.86%	
150			22	3	18	1	19	—	—	—	—	6	6	—	—	—	—	6	31.58%

* No Class is awarded. † Pass with Distinction.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
151			5	—	1	4	5	—	—	1	—	—	—	—	4	—	4	5	71.42%
152			1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%
153			3	—	1	2	3	—	—	—	—	—	—	—	2	—	2	3	100.00%
154			3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	3	100.00%
155			2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	2	100.00%
156			11	—	11	—	11	—	—	—	—	11	—	—	—	—	—	11	100.00%
157			4	—	2	2	4	—	—	—	—	2	—	—	—	—	—	3	75.00%
158			16	1	8	7	15	1	3	2	—	6	1	3	1	—	5	11	73.3%
159			31	2	21	8	29	—	6	10	4	20	—	1	1	4	11	23	79.30%
160			12	—	12	—	12	—	—	—	—	—	—	4	3	—	1	11	91.66%
161			5	1	3	1	4	—	—	—	—	—	—	—	—	—	—	4	100.00%
162			2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%
163			103	—	1	129	130	—	—	—	—	—	—	†90	†10	—	100	101	85.5%
164			19	4	—	15	15	—	—	—	—	—	—	†12	3†	—	15	15	100.00%
165			17	—	—	17	17	—	—	—	—	—	—	†4	†13	—	17	17	100.00%
166			17	—	—	17	17	—	—	—	—	—	—	—	—	—	—	—	—
167			17	—	14	13	27	—	—	—	—	—	—	†4	†7	—	12	12	70.58%
168			27	—	3	—	3	—	—	—	—	14	14	—	—	—	13	13	27 100.00%
169			3	—	3	—	3	—	—	—	—	3	3	—	—	—	—	—	3
170			18	—	14	4	18	—	—	—	—	14	14	—	—	—	4	4	18
171			15	—	11	4	15	—	—	—	—	11	11	—	—	—	4	4	15
			3	—	3	—	3	—	—	—	—	3	3	—	—	—	—	—	3

* No Class is awarded.
 † Passes 'A' Grade.
 ‡ Passes 'B' Grade.
 † Passes 'C' Grade.

Results of the University Examinations, October-November 1973.

Appendix VII

Number appeared

Number passed

Men Women

Percentage of passes

Sr. No.	Examination	No. Absent		Men		Women		Total		I Class Dist.		I Class		II Class		Pass Class		Grand Total	Percentage of passes	
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			19
1	2																			
1	Prep. Arts	435	40	277	118	395			7	79	86				2	46	48	134		34.9%
2	F.Y.B.A.	265	32	160	73	233				79	79					39	39	118		50.64%
*3	S.Y.B.A.	262	29	150	83	233				62	62					44	44	106		45.49%
4	T.Y.B.A.	84	7	58	19	77				34	34					17	18	52		67.53%
5	Prep. Science	246	17	222	25	247			4	55	59	118			5	6	12	130		52.68%
6	F.Y.B.Sc.	152	14	105	33	138				4	46	50				22	23	73		52.57%
*7	S.Y.B.Sc.	118	13	84	21	105					43	43				15	15	58		55.24%
8	T.Y.B.Sc.	139	14	103	13	116			2	10	31	43				8	8	51		43.97%
9	Prep. Commerce	280	20	212	48	260			1	8	91	100			2	27	29	129		50.19%
10	F.Y.B.Com.	493	60	356	77	433				2	140	142				35	35	177		40.88%
*11	S.Y.B.Com.	422	61	310	51	361					161	161				33	33	194		53.74%
12	T.Y.B.Com.	284	41	206	17	223				8	61	69			2	9	11	80		37.38%
13	T.Y.B.Com. (Under O.Com. 25)	12	9	3		3				1	1	1						1		33.33%
14	T.Y.B.Com. (Under O.Com. 27)	15		15		15				4	4	4						4		45.45%
15	P.G. Diploma in Banking	6	1	4	1	5				3	3	3						1	4	80.00%
*16	M.D. (Br. I)—Medicine	13	1	11	1	12					5	5				1	1	6		50.00%
*17	M.D. (Br. II)—Pathology	2		1	1	2										1	1	1		50.00%
*18	M.D. (Br. V)—Obst. & Gyn.	3		1	2	3										2	2	2		66.66%

* No Class is awarded

*19	M.D. (Br. VI)—Pediatrics	3		3		3					1	1						1		38.33%	
*20	M.D. (Br. III)—Preventive & Social Medicine	1		1		1					1	1						1		100.00%	
21	M.D. (Br. IX)—Radiodiagnosis	1		1		1					1	1						1		100.00%	
*22	M.S. (Br. I)—Surgery	6		6		6					3	3						3		50.00%	
*23	M.S. (Br. III)—Orthopaedics	4		4		4					4	4						4		100.00%	
*24	M.S. (Br. V)—Ophthalmology	2		2		2					2	2						1	1	50.00%	
*25	M.Sc. (Medical)—Part I	14	1	13	7	13					2	2						7	9	69.23%	
*26	M.Sc. (Medical)—Part II	7	1	6	1	6					2	2						2	2	33.33%	
*27	Diploma in Ophthalmology	4		4		4					3	3						1	1	100.00%	
*28	Diploma in Anaesthesiology	4		4		4					1	1						2	3	75.00%	
*29	Diploma in Laryngology and Otology	1		1		1					1	1						1		100.00%	
*30	Diploma in Child Health	2		2		2										2	2	2		100.00%	
31	Diploma in Venereology and Dermatology	1		1		1					1	1						1		100.00%	
*32	Diploma in Clinical Pathology	1		1		1												1		100.00%	
*33	Diploma in Obstetrics and Gynaecology	5	1	4	4	4												3	3	75.00%	
*34	Diploma in Medical Radio-diagnosis—Part I	2		2		2					2	2								100.00%	
*35	First M.B.B.S.	157	3	141	15	154					2	2						12	12	102	66.23%
*36	First M.B.B.S. (Suppl.)	54		52	2	54					18	18						2	2	20	37.3%
*37	Third M.B.B.S.	122	2	107	13	120					65	65						9	9	74	61.67%
*38	Third M.B.B.S. (Cond.)	3		2	1	3					1	1						2	4	100.00%	
*39	T.Y.B. Physiotherapy	4		2	2	4					2	2						2	2	71	31.27%
40	F.Y. Diploma (C.M.E.)	231	3	228		228					1	70	71							47	36.15%
41	S.Y. Diploma (C.M.E.)	137	5	132		132					47	47								2	40.00%
42	Diploma in Civil Engg.	5		5		5					1	1								18	37.50%
43	Diploma in Mechanical Engg.	51	3	48		48					3	15	18								
44	Diploma in Mechanical Engg. (Under O.T.E. 155)	1		1		1					1	1								1	100.00%
45	Diploma in Electrical Engg.	29	3	26		26					1	6	7							7	26.99%

* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*46 Diploma in Electrical Engg. (Under O.T.E. 162)	14	4	10	—	—	—	10	—	—	—	2	2	—	—	—	—	—	2	20.00%
47 Diploma in Textile Chemistry	12	1	11	—	—	—	11	—	—	—	1	1	—	—	—	—	—	1	9.09%
48 Diploma in Textile Chemistry (Under O.T.E. 184)	12	5	7	—	—	—	7	—	—	—	4	4	—	—	—	—	—	4	57.14%
49 Diploma in Textile Technology	2	—	2	—	—	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*50 I Sem. of S.Y. Dip. (CME)-EDC	103	8	95	—	—	—	95	—	—	—	28	28	—	—	—	—	—	28	29.47%
*51 II Sem. of S.Y. Dip. (CME)-EDC	30	25	5	—	—	—	5	—	—	—	4	4	—	—	—	—	—	4	16.00%
*52 I Sem. of Dip. in Civil (EDC)	8	—	8	—	—	—	8	—	—	—	6	6	—	—	—	—	—	6	75.00%
*53 I Sem. of Diploma in Mechanical (EDC)	48	5	45	—	—	—	45	—	—	—	34	34	—	—	—	—	—	34	75.55%
54 I Sem. of Dip. in Electrical (EDC)	41	5	36	—	—	—	36	—	—	—	9	9	—	—	—	—	—	9	25.00%
55 II Sem. of Dip. in Civil (EDC)	2	—	2	—	—	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
*56 II Sem. of Dip. in Mechanical (EDC)	6	3	3	—	—	—	3	—	—	—	1	1	—	—	—	—	—	1	33.35%
57 II Sem. of Dip. in Electrical (EDC)	10	4	6	—	—	—	6	—	—	—	1	1	—	—	—	—	—	1	16.66%
*58 I Sem. of F.Y. Dip. (OPF)	48	—	48	—	—	—	48	—	—	—	41	41	—	—	—	—	—	41	85.40%
*59 II Sem. of F.Y. Dip. (OPF)	8	—	8	—	—	—	8	—	—	—	4	4	—	—	—	—	—	4	50.00%
*60 I Sem. of S.Y. Dip. (OPF)	57	—	57	—	—	—	57	—	—	—	47	47	—	—	—	—	—	47	82.45%
*61 II Sem. of S.Y. Dip. (OPF)	27	—	27	—	—	—	27	—	—	—	20	20	—	—	—	—	—	20	74.7%
*62 I Sem. of Dip. (OPF)	74	—	74	—	—	—	74	—	—	—	64	64	—	—	—	—	—	64	86.48%
*63 II Sem. of Dip. (OPF)	77	—	77	—	—	—	77	—	—	—	74	74	—	—	—	—	—	74	96.10%
64 F. Text. (Engg. & Tech.)—O.C.	17	1	16	—	—	—	16	—	—	—	10	10	—	—	—	—	—	10	62.5%
65 S. Text. (Engg. & Tech.)	22	1	21	—	—	—	21	—	—	—	12	12	—	—	—	—	—	12	57.14%
66 T. Text. (Engg.)	1	—	1	—	—	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
67 T. Text. (Tech.)	4	—	4	—	—	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%
68 B. Text. (Technology)	4	—	4	—	—	—	4	—	—	2	1	3	—	—	—	—	—	3	75.00%
69 M. Text. (Engg.)—Part I	2	—	2	—	—	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
70 M. Text. (Engg.)—Part II	4	2	2	—	—	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
71 M. Text. (Engg.)—Part IV	1	—	1	—	—	—	1	—	—	—	—	—	—	7	—	—	—	7	85.3%

* No Class is awarded.

72 I Sem. of F. Text. (Engg. and Tech.)	61	1	60	—	—	—	60	—	—	—	32	32	—	—	—	—	—	32	55.17%
*73 I Sem. of B.E. I (CME, Chem., Met.)	401	5	396	2	398	—	—	—	—	—	311	311	—	—	2	2	313	78.64%	
74 II Sem. of B.E. I (CME, Chem., Met.)	140	4	135	1	136	—	—	—	—	—	88	88	—	—	1	1	89	65.44%	
*75 I Sem. of B.E. II (CME, Chem., Met.)	514	1	510	3	513	—	—	—	—	—	570	370	—	—	3	3	373	72.85%	
76 II Sem. of B.E. II (CME, Chem., Met.)	97	2	95	—	95	—	—	—	—	—	55	55	—	—	—	—	55	58.51%	
*77 I Sem. of B.E. III (CME, Chem., Met.)	438	2	435	1	436	—	—	—	—	—	335	335	—	—	—	—	335	77.00%	
78 II Sem. of B.E. III (CME, Chem., Met.)	54	2	52	—	52	—	—	—	—	—	29	29	—	—	—	—	29	56.86%	
*79 I Sem. of B.E. IV (CME, Chem., Met., Electro.)	329	5	324	—	324	—	—	—	—	—	251	251	—	—	—	—	251	77.46%	
80 II Sem. of B.E. IV (CME, Chem., Met., Electro.)	46	1	45	—	45	—	—	—	—	—	22	22	—	—	—	—	22	52.38%	
*81 I Sem. of B.E. V (Civil)	69	3	66	—	66	—	—	—	—	—	60	60	—	—	—	—	60	90.90%	
*82 I Sem. of B.E. V (Mech.)	99	—	99	—	99	—	—	—	—	—	87	87	—	—	—	—	87	87.87%	
*83 I Sem. of B.E. V (Elect.)	77	1	76	—	76	—	—	—	—	—	73	73	—	—	—	—	73	96.05%	
*84 I Sem. of B.E. V (Chem.)	40	—	40	—	40	—	—	—	—	—	34	34	—	—	—	—	34	85.00%	
*85 I Sem. of B.E. V (Met.)	29	—	29	—	29	—	—	—	—	—	28	28	—	—	—	—	28	89.65%	
*86 I Sem. of B.E. V (Electro.)	14	—	14	—	14	—	—	—	—	—	12	12	—	—	—	—	12	85.71%	
87 II Sem. of B.E. V (Mechanical)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	100.00%
88 II Sem. of B.E. V (Electrical)	15	1	14	—	14	—	—	—	—	—	3	12	—	—	—	—	—	12	85.71%
89 II Sem. of B.E. V (Chem.)	8	—	8	—	8	—	—	—	—	—	1	6	—	—	—	—	6	75.00%	
90 II Sem. of B.E. V (Met.)	4	—	4	—	4	—	—	—	—	—	1	4	—	—	—	—	4	100.00%	
*91 I Sem. of B.E. I (Electro.)	28	—	27	1	28	—	—	—	—	—	22	22	—	—	—	1	23	82.14%	
92 II Sem. of B.E. I (Electro.)	6	—	6	—	6	—	—	—	—	—	6	5	—	—	—	—	5	83.33%	
*93 I Sem. of B.E. II (Electro.)	28	—	28	—	28	—	—	—	—	—	24	24	—	—	—	—	24	85.71%	
94 II Sem. of B.E. II (Electro.)	4	—	4	—	4	—	—	—	—	—	3	3	—	—	—	—	3	75.00%	
*95 I Sem. of B.E. III (Electro.)	26	—	26	—	26	—	—	—	—	—	20	20	—	—	—	—	20	76.92%	

* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
96	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
*97	3	—	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	66.66%
*98	3	—	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	33.33%
*99	10	—	10	—	10	—	10	—	—	—	—	—	—	—	—	—	—	—	—	30.00%
*100	7	—	7	—	7	—	7	—	—	—	—	—	—	—	—	—	—	—	—	85.71%
*101	6	1	5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	100.00%
*102	4	1	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	66.66%
*103	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	100.00%
104	2	—	2	—	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	100.00%
105	8	—	8	—	8	—	8	1	6	1	—	—	—	—	—	—	—	—	—	100.00%
106	4	—	4	—	4	—	4	—	2	1	—	—	—	—	—	—	—	—	—	75.00%
107	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.00%
108	2	—	2	—	2	—	2	1	1	—	—	—	—	—	—	—	—	—	—	100.00%
109	8	—	8	—	8	—	8	—	—	—	—	—	—	—	—	—	—	—	—	87.50%
*110	29	1	21	7	28	—	—	—	—	—	7	7	—	—	—	—	—	—	—	96.43%
*111	47	—	33	14	47	—	—	—	—	—	20	20	—	—	—	—	—	—	—	65.95%
*112	6	—	5	1	6	—	—	—	—	—	5	5	—	—	—	—	—	—	—	100.00%
*113	42	—	31	11	42	—	—	—	—	—	19	19	—	—	—	—	—	—	—	70.72%
114	8	—	8	—	8	—	8	—	—	—	4	4	—	—	—	—	—	—	—	50.00%
*115	38	—	31	7	38	—	—	—	—	—	30	30	—	—	—	—	—	—	—	97.36%
116	13	—	13	—	13	—	—	—	—	—	5	5	—	—	—	—	—	—	—	38.46%
117	24	4	18	2	20	—	—	—	—	—	11	11	—	—	—	—	—	—	—	65.00%
118	151	54	86	11	97	—	—	—	—	—	34	35	—	—	—	—	—	—	—	38.14%
119	50	9	39	2	41	—	—	—	—	—	1	31	32	—	—	—	—	—	—	82.93%
120	8	2	5	1	6	—	—	—	—	—	2	2	4	—	—	—	—	—	—	83.33%
121	7	3	3	1	4	—	—	—	—	—	2	2	—	—	—	—	—	—	—	50.00%
122	18	5	12	1	13	—	—	—	—	—	5	5	—	—	—	—	—	—	—	38.46%

* No Class is awarded.

123	14	—	—	14	14	—	—	—	—	—	—	—	—	†4	—	—	—	—	—	—	11	11	78.57%
124	26	4	—	22	22	—	—	—	—	—	—	—	—	—	‡2	§12	14	14	—	—	—	—	82.9%
125	2	—	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	50.00%
126	8	—	5	3	8	—	—	—	—	—	2	2	—	—	—	—	—	—	—	—	4	4	50.00%
127	5	—	5	—	5	—	—	—	—	—	5	5	—	—	—	—	—	—	—	—	5	5	—
128	5	—	4	1	5	—	—	—	—	—	4	4	—	—	—	—	—	—	—	—	1	1	—
129	4	—	4	—	4	—	—	—	—	—	4	4	—	—	—	—	—	—	—	—	4	4	—
130	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—

† Passed with A Grade.

‡ Passed with B Grade.

§ Passed with C Grade.

CAPITAL ACCOUNTS

Appendix VIII

I—University General Fund
(Subject to Audit)

1973-74

<i>Receipts</i>	<i>Rs.</i>	<i>P.</i>	<i>Payments</i>	<i>Rs.</i>	<i>P.</i>
Opening Balance as on 1-4-1973					
Interest					
Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	7,16,833-30		Building Work	5,66,697-87	
Loan for construction of Hostel for the Development of Department of Architecture and Degree Courses in Electronics Engineering	1,959-00		Advance to the Press	—	
Loan for construction of a Students Hostel for 150 students under the Scheme of Introduction of 5 year Integrated Degree Courses in Metallurgy.	3,75,000-00		Purchase of Furniture	—	
Balance of Fidelity Gurantee Insurance Fund transferred to this fund vide S.R. No. 1 (2) dated 27-1-1973	2,00,000-00		Closing Balance	9,32,587-29	
60% of the Income from additional seats in the Faculty of Commerce transferred to this fund towards the construction of additional Class-Rooms, Staff-Rooms etc.	90,000-00				260
	7,492-86				
Total	1,08,000-00		Total	14,99,285-16	

II—Ayurvedic Research Fund

(Subject to Audit)

1973-74

<i>Receipts</i>	<i>Rs.</i>	<i>P.</i>	<i>Payments</i>	<i>Rs.</i>	<i>P.</i>
Opening Balance as on 1-4-1973	12,88,534-40		Amount transferred for the excess recurring expenditure of the Unit over and above the State Government Grant	18,931-02	
Interest	52,800-48		Closing Balance	13,22,403-86	
Total	13,41,334-88		Total	13,41,334-88	

III—Post-graduate Instruction and Research Fund

(Subject to Audit)

1973-74

<i>Receipts</i>	<i>Rs.</i>	<i>P.</i>	<i>Payments</i>	<i>Rs.</i>	<i>P.</i>
Opening Balance as on 1-4-1973	48,65,852-55		(i) Expenditure on Research		
Interest	1,78,543-50		and		
			(ii) Scheme (including Research Assistant)	34,755-03	
			(iii) Two Post-Doctoral Fellowships at Rs. 400/- p.m. each and Contingent Grant @ Rs. 1,000/- p.a. each	6,866-48	
			(iv) 12 Scholarships of Rs. 250/- p.m. each and Continent Grant of Rs. 500/- p.m. per Scholar	23,047-27	
			(v) Closing Balance	49,79,727-27	
Total	50,44,396-05		Total	50,44,396-05	

1	2	3	1	2	3
(h) Towards filling up of vacant posts (subject to Government's approval)		—	(p) Polytechnic		15,86,506-50
(i) Grant from the State Government towards maintenance of M. K. Amin Arts and Science College and College of Commerce, Padra		—	(q) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering		76,954-86
II Fees from Students (A + B + C)		61,35,312-26	XIII University Library		7,09,874-73
(A) Academic :			XIV University Guest House		20,681-28
(i) Tuition Fees and Miscellaneous Income from Faculties and Institutions		49,30,286-30	XV University Auxiliary Services		7,03,567-02
Faculties :			(a) M. S. University of Baroda Press (Sadhana Press)		4,44,859-32
(a) Faculty of Arts		6,94,882-00	(b) M. S. University Stationery Unit		2,34,858-77
(b) Faculty of Science		9,28,907-25	(c) M. S. University Publication Sales Unit		23,848-93
(c) Faculty of Education and Psychology		2,21,734-00	XVI Halls of Residence for Students		11,32,200-46
(d) Faculty of Commerce		8,27,059-15	XVII Sheth U. P. Ayurvedic Research Unit		49,352-72
(e) Faculty of Technology and Engineering		9,59,053-59			
(f) Faculty of Law		2,22,686-00			
(g) Faculty of Fine Arts		56,044-10			
(h) Faculty of Home Science		2,76,292-75			
(i) Faculty of Social Work		42,324-00			

264

1	2	3	4	5	6
Institutions :					
(j) College of Indian Music, Dance and Dramatics		56,061-36			
(k) Preparatory Unit : Arts and Commerce		—			
(l) Preparatory Unit : Science		—			
(m) Sanskrit Mahavidyalaya		13-00			
(n) Shri M. K. Amin Arts and Science College and College of Commerce, Padra		3,37,678-00			
(o) Polytechnic		2,32,687-10			
(p) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering		30,074-00			
(ii) Fees for Enrolment etc. :		45,290-00			
(a) For Enrolment Certificate		39,400-00			
(b) For Post-graduate Registration		5,890-00			
(B) Examination Fees		8,17,872-76			
(C) Other Fees		3,87,153-20			
III Income from Halls of Residence for Students		5,51,726-00			
IV Income from Buildings, Lands and Other Properties		3,00,604-73			

265

Grants for Development and Research Schemes—1973-74

1	2	3	4	5	6
V	Health Services—University Health Centre	12,189-37			
VI	University Auxiliary Services	7,07,468-91			
	(a) Income from M. S. University of Baroda Press (Sadhana Press)	4,18,829-61			
	(b) Income from M. S. University Stationery Unit	2,39,728-60			
	(c) Income from Publications	48,910-70			
VII	Miscellaneous Receipts	1,48,085-08			
VIII	Sheth U.P. Ayurvedic Research Unit	49,352-72			
	(1) State Government Grant	30,000-00			
	(2) Income from Out Patient Ward	421-70			
	(3) Excess Recurring Expenditure met from Ayurvedic Research Fund	18,931-02			
IX	Transfer from Insurance Fund towards payment of Insurance Premium on Insurance of Buildings, Equipment, Books etc.	1,15,718-03			
	Total Receipt	1,54,24,546-10			
	Excess of Disbursements over Receipts i.e. Deficit	52,80,187-74			
	Grand Total	2,07,04,733-84			
	Total Disbursements	2,07,04,733-84			
	Grant Total	2,07,04,733-84			

Sr. No.	Name of the Agency	Amount of Grant Rs.
1.	University Grants Commission	32,01,202-85
2.	Ministry of Education, Government of India	4,24,710-48
3.	Ministry of Health, Government of India	54,500-00
4.	Ministry of Defence, Research and Development Organisation	14,200-00
5.	Council of Scientific and Industrial Research	19,242-42
6.	Indian Council of Social Science Research	7,495-00
7.	Indian Council of Historical Research	3,750-00
8.	Indian Council of Cultural Programme	500-00
9.	Government of Gujarat (Matching Grant)	11,47,483-00
10.	Government of Gujarat (Research and Other Schemes)	2,19,894-89
11.	United States Departments of Agriculture (AM-PL-480 Programmes)	4,27,762-00
12.	Unichem Laboratories	10,000-00
13.	Grant from Government of India, Department of Atomic Energy	2,760-00
14.	Inter University Board of India and Ceylon	1,000-00
15.	Government of India, Director General, Archaeological Survey of India	7,500-00
16.	Gujarat Electricity Board	30,000-00
17.	Central Social Welfare Board	1,54,000-00
	Total:	57,26,000-64

THE MAHARAJA SAYAJIRAO

Statement of student residents

Faculty/Institution	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Shri Maharsih Arvind Hall	Shri Sardar Patel Hall	Professor T. K. Gajjar Hall	Dr. Jivraj Mehta Hall
Preparatory Science	9	13	17	23	18	18
Preparatory Arts and Commerce	2	9	3	3	8	3
Arts	1	6	4	5	19	4
Commerce	13	10	8	21	17	19
Science	35	23	57	28	20	25
Education and Psychology	—	—	—	2	2	1
Technology and Engineering	96	110	79	94	114	81
Polytechnic	2	7	5	2	7	11
Medicine	10	9	12	3	14	18
Social Work	1	—	1	—	—	1
Fine Arts	3	—	2	1	8	2
Music	—	—	—	—	—	—
Law	3	2	—	1	5	—
Home Science	—	—	—	—	—	—
Padra College	4	2	1	2	1	3
Total:	179	191	189	182	233	186

UNIVERSITY OF BARODA

during 1973-74

Lal Bahadur Shastri Hall	8th Hall	Shri Dadabhai Naoroji Hall	Shri Rabindra-nath Tagore Hall	Shri M. Vish-vesaraya Hall	Shri Siddharaj Jaisinh Hall	Boys Total	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Kasturba Gandhi Hall	Girls Total	Grand Total
16	43	2	30	24	23	236	12	5	7	4	28	264
3	13	2	9	5	6	64	5	2	10	3	20	84
17	10	9	13	16	11	115	29	36	25	18	108	223
8	20	9	28	16	37	206	13	18	12	6	49	255
10	16	16	37	35	19	318	37	32	34	14	117	435
4	5	2	—	15	1	32	10	6	13	2	31	63
59	24	12	128	94	108	999	8	10	8	1	27	1026
5	10	—	41	50	70	210	—	—	—	—	—	210
10	6	1	20	8	17	128	16	15	9	6	46	174
4	—	—	1	1	6	15	2	3	11	1	17	32
5	2	3	4	14	4	48	18	7	5	8	38	86
—	1	2	1	3	1	8	1	—	7	8	16	24
2	—	8	9	2	9	41	4	—	3	3	10	51
—	—	2	—	—	—	2	135	74	85	32	326	328
—	20	4	7	4	3	51	5	1	—	—	6	57
143	170	72	328	287	315	2473	295	209	229	106	839	3312