

(24)

M.S. University of Baroda

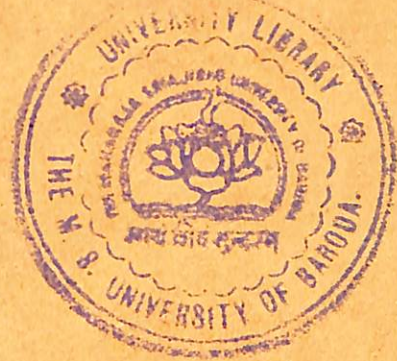
Twenty fourth
Annual Report

1972 - 72

Senate, 21 OCT 1973

**The Maharaja Sayajirao University
of Baroda**

NOT TO BE ISSUED

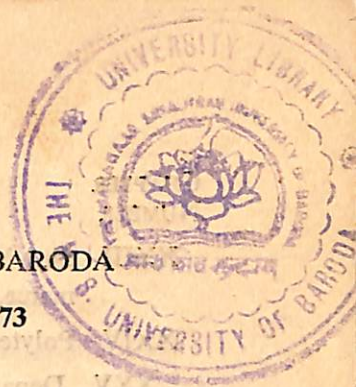
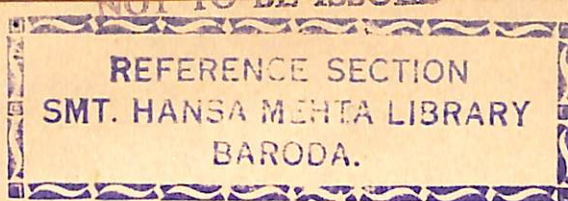


TWENTY-FOURTH ANNUAL REPORT

1972-73



BARODA



THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

TWENTY-FOURTH ANNUAL REPORT, 1972-73

(1st April, 1972 to 31st March, 1973)

CONTENTS

CHAPTER NUMBER	SUBJECT	PAGES
..	Introduction	1
I	General	9
II	Officers of the University	20
III	The Syndicate and the Senate	23
IV	Other Authorities of the University	27
V	Other Boards and Committees	36
VI	Research Work in the University	47
VII	Lectures and Deputations	59
VIII	Faculty of Arts	72
IX	Faculty of Science	88
X	(A) Faculty of Education and Psychology	112
	(B) University Experimental School	133
XI	Faculty of Commerce	138
XII	Faculty of Medicine:	
	(A) Medical College	141
	(B) Sheth Ujamshi Pitambardas Ayurvedic Research Unit	155
XIII	Faculty of Technology and Engineering	158
XIV	Faculty of Fine Arts	168
XV	Faculty of Home Science	176
XVI	Faculty of Social Work	182
XVII	Faculty of Law	189
XVIII	Oriental Institute	193
XIX	College of Indian Music, Dance and Dramatics	202
XX	Baroda Sanskrit Mahavidyalaya	206
XXI	Preparatory Unit—Arts and Commerce	210
XXII	Preparatory Unit—Science	212

CHAPTER NUMBER	SUBJECT	PAGES
XXIII	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	214
XXIV	Polytechnic	218
XXV	Department of Continuing/Adult Education	222
XXVI	Shrimati Hansa Mehta Library	225
XXVII	The M. S. University of Baroda Press	230
XXVIII	The Maharaja Sayajirao University Union	232
XXIX	General Education Centre	234
XXX	Students' Welfare Activities	237
Appendices		
I	Number of University Students	249
II	Number of Non-University Students	250
III	List of Degrees and Diplomas conferred at the Annual and Supplementary Convocations during the year 1972-73	251
IV	Number of Teachers	253
V	List of Candidates qualifying for the Ph.D. degree in 1972-73	254
VI	Results of University Examinations held in March/April, 1972	258
VII	Results of University Examinations held in October/November, 1972	265
VIII	Capital Accounts	271
IX	Revenue Accounts	273
X	Grants for Development and Research Schemes	280
XI	Number of Students admitted in various Halls of Residence	278



His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TWENTY-FOURTH ANNUAL REPORT, 1972-73

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 for 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 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 degree class students and the remaining reading for the under-graduate diploma or certificate courses. In the next twenty-three years, the total enrolment of students in the University has risen from 2,962 to 17,986 registering a six-fold increase. The average yearly increase in student enrolment since 1949 has been nearly 653.

In 1950, the total number of men students was 3,503. This number increased to 13,404 in 1972-73, registering a rise of over three times. The rise in the enrolment of women students has been more remarkable. Between 1950 and 1972-73 the enrolment of women students in the University increased from 484 to 4,582 which is a rise of nine times over the figure of 1950.

The enrolment trends over the last twenty-three 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	4883	-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

Sex-Ratio in different Faculties: The table below gives ratio of men to women students in the various Faculties and Institutions of the University for the years 1950-51, 1960-61, 1970-71 and 1972-73:

	1950-51		1960-61		1970-71		1972-73	
	Men %	Women %	Men %	Women %	Men %	Women %	Men %	Women %
Arts	72.1	27.9	65.7	34.3	47.5	52.5	52.5	47.5
Science	—	—	87.5	12.5	72.2	27.8	71.4	28.6
Education and Psychology	87.2	12.8	63.0	37.0	39.7	60.3	41.8	58.2
Commerce	—	—	82.6	17.4	82.6	17.4	76.5	23.5
Medicine	89.8	10.2	82.6	17.4	84.0	16.0	83.6	16.4
Technology and Engineering	99.6	0.4	99.0	1.0	97.7	2.3	97.9	2.1
Fine Arts	—	—	83.6	16.4	73.0	27.0	74.8	25.2
Home Science	—	100.0	—	100.0	0.1	99.9	0.5	99.5
Social Work	85.8	14.2	75.0	25.0	56.0	44.0	53.7	46.3
Law	—	—	—	—	89.3	10.3	89.0	11.0
College of Indian Music, Dance and Dramatics	80.0	20.0	63.3	36.7	44.1	55.9	48.4	51.6
Baroda Sanskrit Mahavidyalaya	—	—	85.7	14.3	80.3	20.0	25.0	25.0
Preparatory Units	—	—	80.7	19.3	75.2	24.8	72.4	27.6
Polytechnic	—	—	99.6	0.4	99.4	0.6	99.6	0.4
Shri M. K. Amin Arts & Science College and College of Commerce, Padra	—	—	—	—	90.8	9.2	88.2	11.8

Student Enrolment in Post-graduate Courses: The enrolment of students in various post-graduate courses offered in the 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 stood at 1,723 in 1972-73. The number of post-graduate men students between 1950-51 and 1972-73 has increased by 929 and that of women students by 490.

Growth of Enrolment in Degree Courses: In 1950-51 there were 2,161 students reading for the first degree in the under-graduate classes of the different faculties and institutions of the University. The figure for 1972-73 is 14,417. Thus, between 1950-51 and 1972-73 the under-graduate student population of the University has increased by six hundred percent. The increase in case of men students and women students during the same period is 8,539 and 3,727 respectively.

Percentage Increase in Student Enrolment

Faculty	1968-69	1969-70	1970-71	1971-72	1972-73
Arts	11.6	12.4	12.2	12.9	12.2
Science	9.6	9.9	9.9	9.5	9.0
Education and Psychology	2.9	2.4	2.8	2.7	2.5
Commerce	11.6	11.9	14.7	14.7	15.4
Medicine	4.7	4.6	4.7	4.6	4.4
Technology and Engineering	18.5	17.9	17.1	15.8	14.5
Fine Arts	1.5	1.3	1.3	1.3	1.3
Home Science	4.2	4.3	4.3	4.7	4.6
Social Work	0.5	0.5	0.5	0.6	0.5
Law	3.5	3.6	3.9	4.5	4.9
Preparatory Unit—Arts and Commerce	11.7	12.0	9.3	9.4	8.8
Preparatory Unit—Science	7.5	6.9	6.9	6.4	5.8
M. K. Amin Arts and Science College and College of Commerce, Padra	2.9	4.1	4.1	4.8	8.1
College of Indian Music, Dance and Dramatics	0.6	0.5	0.4	0.5	0.5
Sanskrit Mahavidyalaya	0.3	0.3	0.3	0.3	0.3
Polytechnic	8.5	7.4	7.7	7.3	7.2
	100.0	100.0	100.0	100.0	100.0

University Teachers

University Teachers and the Staff-student Ratio : The total number of teachers (including Assistant Lecturers and Part-time Lecturers) in the Faculties and Institutions of the University during the year under report is 954 (including 126 teachers of Medical College) as against the total student enrolment of 17,986. This gives an over-all teacher-student ratio of 1:18.85. The staff-student ratio over the last five years is indicated below :

Year	No. of University Teachers	Student Enrolment	Staff-Student Ratio
1968-69	856	14396	1:16.8
1969-70	867	15311	1:17.6
1970-71	887	15930	1:17.9
1971-72	914	16590	1:18.1
1972-73	954	17986	1:18.85
			Say 1:19.00

Hostel and Health Services

Halls of Residence : With the rapid increase in student enrolment, the pressure of demand from students for residential accommodation in the University Halls of Residence has been on the increase. The University has been taking all possible steps to increase the hostel facilities for the students. At its start in 1949, the University had accommodation for 400 men students and no accommodation for women students. At the end of the year under review there were 11 halls for men and 4 for women students. There were 2368 men students and 844 women students in the different halls. The percentage of students residing in the University hostels work out at 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
1968-69	2051	786	2837	14.2	5.5	19.7
1969-70	2078	788	2866	13.6	5.1	18.7
1970-71	2225	818	3043	14.0	5.1	19.1
1971-72	2358	871	3229	14.2	5.2	19.4
1972-73	2368	844	3212	13.1	4.7	17.8

Health Service : The health service facilities and medical treatment provided at the University Health Centre Clinic have continued to be largely availed of by the members of the University staff and their families and the students. This could be seen from the following figures for the patients treated and daily average attendance over the last five years.

Year	No. of Cases Treated				Total Cases	Daily average attendance
	Staff and their families	%	Students	%		
1968-69	9507	40.1	14218	59.9	23725	65.0
1969-70	12325	42.1	16941	57.9	29266	80.2
1970-71	11866	37.7	19543	62.3	31409	86.0
1971-72	10764	33.1	21807	66.9	32571	90.2
1972-73	10638	32.5	22115	67.5	32753	89.7

Other Developments

In the twenty-four years of its existence, the faculties and institutions of the University have made considerable progress. The courses have been revised from time to time and emphasis continues to be laid on seminars and home assignments consistent with the special requirements of a teaching University. Efforts are also being made to improve conditions, academic and physical, obtaining in the Faculties and Institutions. Provision of adequate staff, improvement of old buildings, addition of new buildings, creation of a suitable academic climate, development of library and laboratory facilities, increasing the research output, and the maintenance of student discipline—all these continued to receive close 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 started 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 introduced in 1957 the three year degree courses in Arts, Science and Commerce and post-graduate courses in bio-chemistry, microbiology, geology and home science between 1955 to 1965. The Departments of Archaeology and Ancient History and Museology were also developed with the help of the grants received from the University Grants Commission. In 1964, the Department of Education was upgraded to the status of a Centre of Advanced Study in Education (CASE) to carry on research on problems of education on an All India basis. For several years the University had a Students' Counselling Centre and the Examination Reform and Research Unit between 1959 to 1968. Buildings for teaching and residential accommodation for students and teachers were also constructed with the help of substantial grants from the University Grants Commission in the Second and Third Plan Periods.

Under an expansion scheme in the Second and Third Plan periods, the Faculty of Technology and Engineering increased the yearly 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. It has also started 10 post-graduate courses in the different branches of applied mechanics and civil, mechanical, electrical and textile engineering, for which grants are being provided by the University Grants Commission. A Polytechnic

to conduct diploma courses in civil, mechanical and electrical engineering was established in the year 1957. Two schemes approved by the All India Council for Technical Education and the University Grants Commission enabled the University to raise the intake capacity of students in diploma classes at the Polytechnic from 180 to 360. The State (Extended) Diploma courses in civil, mechanical and electrical engineering with an intake capacity of 100 students were started in the Polytechnic in the year 1963. Model Diploma Courses in Petrochemical Technology were started from 16th November, 1970 under the INDO-USSR Credit Agreement of December 1966. During the year 1972-73, a new Department of Continuing/Adult Education Department has been established and the Department of Bio-chemistry has been selected by the University Grants Commission under the Programme of Special Assistance to Selected Departments.

The development activities during the preceding years are described in the twenty-three Annual Reports that have been published so far. This, the twenty-fourth Annual Report covers the period from 1st April, 1972 to 31st March, 1973 and is submitted to the Senate in accordance with Section 24 (2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

CHAPTER I—GENERAL

1. Institutions in the University

Constituent and Recognised Institutions (Under 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 17,986 (13,404 men students and 4,582 women students) and that of non-University students was 1,861 (1,201 men students and 660 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 Second Annual Convocation was held on 2nd December, 1972. Shri Fatehsinhrao P. Gaekwad, Chancellor presided over the Convocation. Shri H. M. Patel, I.C.S. (Retd.), M.P. delivered the Convocation Address, 2,766 Degrees and Diplomas were conferred.

(ii) The Thirteenth Supplementary Convocation was held on 25th March, 1973. The Vice-Chancellor presided over the Convocation. 400 Degrees and Diplomas were conferred.

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

(2) *New Developments :*

(i) The Department of Continuing/Adult Education was started in August 1972.

(ii) On the recommendation of the Visiting Committee, the University Grants Commission sanctioned the posts of 4 Readers, 3 Lecturers and 2 Research Assistants and a non-recurring grant of Rs. 18,000

for the development of the Teacher Education and Research in the Faculty of Education and Psychology. The State Government's consent for taking over the recurring liability of the above posts from April, 1979 is awaited.

(iii) On the recommendation of the Visiting Committee, the University Grants Commission sanctioned a non-recurring grant of Rs. 17,74,000/- and a recurring grant of Rs. 3,00,000 for the establishment of the Centre for degree course in Pharmacy in the Faculty of Technology and Engineering. The Government of Gujarat has agreed to provide the matching share (50%) and also to take over the recurring liability on completion of the 5 year period of the U.G.C. grant.

(iv) The University Grants Commission sanctioned a grant of Rs. 2,00,000/- for purchase of books and journals on Humanities and Science subjects.

(3) *Buildings :*

(a) The following buildings were completed during the year:

- (i) Hostel to accommodate 178 students under Architecture Development and Post B.Sc. Electronics Schemes
- (ii) New building for the Department of Sociology
- (iii) Building for Non-Vegetarian Mess
- (iv) Building for M. K. Amin Arts and Science College and College of Commerce, Padra
- (v) Extension to the University Polytechnic building
- (vi) New Block for the Faculty of Arts—for the Departments of Linguistics, Economics, History, Agricultural Economics and part of the Department of English

(b) The following works were under construction :

- (i) Hostel to accommodate 140 students under the scheme of Introduction of 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 and (part of) Metallurgical Engineering
- (iii) New building for the Department of Geography
- (iv) New Library building for undergraduate students
- (v) Buildings for the Faculty of Fine Arts
- (vi) Overhead Tank and Sump at the Faculty of Technology and Engineering

(vii) Extension to the Electrical Engineering Laboratory

(4) *Summer Institutes, Schools, Seminars and Conferences :*

The following Summer Institutes, Schools, Seminars and Conferences were organised during the year :

- (i) 8th Session of Indian Congress of American History
- (ii) Summer Institute in English in collaboration with the British Council and the Central Institute of English and Foreign Languages
- (iii) 10th Annual Conference of Indian Academy of Applied Psychology
- (iv) Orientation Course for fresh Junior College Teachers
- (v) Seminar on Regional Historiography
- (vi) Seminar on Under-graduate and Post-graduate Education in Ophthalmology
- (vii) Study Seminar/Camp with Kumari Vimal Tai Thakar
- (viii) Symposium on Objectives of University Education in the present context

(5) *Distinguished Visitors to the University :*

Visitor	Date of Visit
(i) Shri Gordhandas R. Chokhawala, Minister for Education and Social Welfare, Gujarat State.	21-6-1972
(ii) Mr. B. I. Kuznetsov, Scientific Worker, Institute of Oriental Studies, Leningrad Branch of U.S.S.R. of Academy of Science, U.S.S.R.	28-7-1972
(iii) Professor Nurul Hassan, Minister for Education and Social Welfare, Government of India.	11-11-1972
(iv) Mr. C. D. Roberts, Senior Ranking Officer, Department of Education, Britain, U.K.	14-11-1972
(v) Dr. Mohan Singh Mehta, President, Seva Mandir, Udaipur.	4-1-1973
(vi) Dr. Amrik Singh, Secretary, Inter-University Board of India, New Delhi.	4-1-1973

Visitor	Date of Visit
(vii) Shri Shital Prasad, Executive Secretary, Indian University Association for Continuing Education.	4-1-1973
(viii) Dr. H. W. Graf, Head, Department of Pedagogy in Higher Education, Humbolt University, Berlin.	28-1-1973
(ix) Dr. Y. Nayadumma, Director General, Council of Scientific and Industrial Research, New Delhi.	16-2-1973 and 17-2-1973
(x) Dr. Hans Knop, Pro-Rector, University of Economic Science, Berlin.	21-2-1973

(6) *Other Important Events :*

(i) The University started the construction of a new building to provide separate library facilities for under-graduate students, to ease the congestion experienced in Smt. Hansa Mehta Library. The building, including furniture, is estimated to cost Rs. 14.07 lakhs. Sir Sayajirao Diamond Jubilee and Memorial Trust and the University Grants Commission agreed to provide grants of Rs. 6/- lakhs and Rs. 7/- lakhs respectively and the State Government agreed to provide Rs. 1/- lakh for this project. The Corner stone for this building was laid by Shri Gordhandas R. Chokhawala, Minister of Education, Gujarat State on 21st June, 1972.

(ii) Under the Tagore Chair Programme Professor James O. Barnhill Head, Department of English Drama, Brown University, Providence, U.S.A. was invited for a period of three months during the year. With the help of the Shakespeare Society in the Faculty of Arts, Professor Barnhill produced two plays—"Macbeth" and "Six Characters in Search of an Author". He also delivered lectures on Dramatics and conducted a staff seminar on Drama and workshops on Acting and Theatre practices.

Under this programme, Professor Ben Norris, leading painter and distinguished teacher of Arts, University of Hawaii was also invited for three weeks to deliver 12 lectures/studio demonstrations in the Faculty of Fine Arts.

(iii) On 11th November, 1972, the University organised a Seminar on Historiography which was inaugurated by Professor Nurul Hassan, Minister for Education and Social Welfare, Government of India.

(iv) Dr. Y. Nayadumma, Director General, Council of Scientific and Industrial Research, New Delhi, delivered two lectures on 'Problems and Prospects for Technology Utilization' on 16th and 17th February, 1973, under the Maharaja Sayajirao Memorial Lectures during the year.

(v) In response to the appeals of the Pro-Vice-Chancellor, a number of teachers participated in Scarcity Relief Projects in Gujarat during the summer vacation. The staff and students of the University collected Rs. 10,225 for the Drought Relief Fund.

4. Teaching Staff

The total number of teaching staff (excluding 126 in Medical College) consisted of 59 Professors, 119 Readers, 472 Lecturers, 137 Assistant Lecturers and Instructors, 41 Honorary, Part-time and others, the total being 828. (Appendix IV)

5. Facilities 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)	Shri J. J. Prajapati, Lecturer in Civil Engineering	M.Tech. at the I.I.T. Madras.
(2)	Dr. V. Seshadri, Professor and Head of Metallurgical Engineering Department	Availed of Humboldt Foundation Fellowship for research work at the Max-planck Institute Fur Eisenforschung in West Germany.
(3)	Professor S. B. Pandya, Professor and Head of Chemical Engineering Department	Visited various Universities, Laboratories and Factories of Oil, Plastics, Fertilizers etc. in USSR.
(4)	Shri K. S. Shastri, Reader in Electrical Engineering	Completed his doctoral research at Jadavpur University.
(5)	Dr. (Kum.) Uma Sriramulu, Lecturer in Home-Management	Ph.D., Iowa State University, U.S.A.

<i>Sr.No.</i>	<i>Name of the Teacher</i>	<i>Qualifications and Experience acquired</i>
(6)	Dr.(Kum.) T. S. Saraswathi Lecturer in Child Development	Ph.D. Iowa State University, U.S.A.
(7)	Dr. (Kum.) Anjali C. Patel, Lecturer in Child Development	Ph.D. Iowa State University, U.S.A.
(8)	Dr. (Kum.) Sunder Gujaral, Lecturer in Foods and Nutrition	Ph.D. Iowa State University, U.S.A.
(9)	Dr. J. Birje Patil, Reader in English	Completed research work at Yale University, U.S.A. (Senior Fulbright Fellowship Programme).

(ii) The following teachers were granted facilities for higher studies, research visits etc. in India or abroad.

<i>Sr.No.</i>	<i>Name of the Teacher</i>	<i>Purpose</i>
(1)	Shri J. K. Vyas, Lecturer in Applied Mechanics	To enable him to continue further studies leading to Doctorate degree in West Germany.
(2)	Kum. Urmila Patel, Assistant Lecturer in Foods and Nutrition	M.S. at the University of Kansas, U.S.A.
(3)	Dr. B. S. Verma, Physician for Skin and Venereal Diseases	To avail of WHO fellowship for higher training in Skin and Venereal Diseases in U.K., Sweden, Denmark, Canada and U.S.A.
(4)	Dr. K. T. M. Hegde, Reader in Environmental Archaeology	To avail of the Overseas Fellowship for research work at St. John College, Cambridge.
(5)	Dr. S. R. Hashim, Reader in Economics	To avail of Leverhulme Commonwealth/American Visiting Fellowship at the University College of South Wales, U.K.
(6)	Professor V. N. Kothari, Professor of Economics	To visit Romania for three weeks under the U.G.C. Indo-Romanian Cultural Exchange Programme.

<i>Sr.No.</i>	<i>Name of the Teacher</i>	<i>Purpose</i>
(7)	Shri M. M. Gandotra, Demographer in Demographic Research Centre, Baroda	To participate at the Demography Conference organised by the Committee for International Co-ordination of National Research held at Trinidad and Tobago, West Indies.
(8)	Dr. K. V. Thirvikraman, Lecturer in Foods and Nutrition	To carry out post-doctoral Research at the University of Kansas, U.S.A.
(9)	Kum. Jyoti Barot, Lecturer in Social Work	To pursue advanced course in Psychoanalytic and Psychotherapy for specialisation in Mental Health (Meental Hygiene) at New York.
(10)	Shri Y. D. Kelkar, Lecturer in Dramatics	To acquire advanced training in Stage Craft in Germany and visit various Theatres in West Germany.
(11)	Dr. N. G. Sanghavi, Assistant Professor of Medicine	To avail of the Commonwealth Fellowship for work in the field of Haematology in Edinburgh. U.K.

6. University Examination Results

Fifty four candidates were declared qualified for the award of Ph.D. degree of this University during the year 1972-73. A statement showing the names, subjects and titles of the theses is given in Appendix V.

Statements showing the University examination results of (i) March-April-May-June, 1972 and (ii) October-November, 1972 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) Shri Chandulal Maganlal Doctor Memorial Prize Fund	2500/-	For awarding a prize in cash to a student who passes the LL.B. (Special) Examination held by the

1	2	3
donated by Shri Ashok C. Doctor, Bombay		M. S. University of Baroda in March/April with at least Second Class at the first attempt, obtaining the highest number of marks thereat.
ii) Shri Kantibhai Vithaldas Dalia Memorial Prize fund donated by Shri Babubhai Vithaldas Dalia, Baroda	3000/-	For awarding a 'Mahavastra' at the Annual Convocation to a student who has passed the Annual Shastri Examination of Uttam Kaksha held by the M. S. University of Baroda in March/April at the first attempt, with atleast Second Class, obtaining the highest number of marks thereat. Provided further that if 'Mahavastra' is not available the prize will be awarded in cash.
(iii) Prof. L. B. Shah Prize Fund donated by the Staff and Students of Mechanical Engineering Department, Faculty of Technology and Engineering	3000/-	For awarding a prize in cash to the student who passes the Final B.E. (Mech.) Examination held by the M. S. University of Baroda in April/May with atleast Second Class, at first attempt, obtaining the highest number of marks in aggregate thereat.
(iv) Shri Babubhai Jashbhai Patel Shashtipurti Smruti Trust Fund donated by Shri B. J. Patel Shashtipurti Mahotsav Trust, Nadiad	8000/-	For awarding a Gold Medal in the name of 'Shri Babubhai Jashbhai Patel Diamond Jubilee Gold Medal' at the Annual Convocation to a candidate who has passed the Final year B.A. (Fine) Degree Examination held by the M. S. University of Baroda in March/April at the first attempt, at least with Second Class and obtaining the highest number of marks in the following subjects in rotation: (1) Painting, (2) Sculpture, (3) Applied Arts, (4) Art History.

1	2	3
(v) Prof. K. S. Desai Gold Medal in Political Science Fund from the Chairman, Departmental Committee for Prof. K. S. Desai Gold Medal in Political Science, Faculty of Arts, Baroda	8000/-	For awarding a Gold Medal at the Annual Convocation to the student who has secured the highest aggregate number of marks with atleast 55% of the aggregate total, at the M.A. degree examination (Part I and II) in Political Science held by the M. S. University of Baroda in March/April, provided that the candidate has passed the M.A. Part I Examination in Political Science at the end of the first year at the first attempt, and the M.A. Part II examination in Political Science at the end of the second year at the first attempt or both Part I and Part II at the end of the second year at the first attempt.
(vi) Prof. R. L. Desai Merit Prize Fund from the Secretary, Prof. R. L. Desai Felicitation Committee Textile Chemistry, Department, Kalabhavan, Baroda	11,000/-	For awarding four Cash Prizes of equal amount as under: (a) To the student who secures the highest percentage of marks at the Final year D.T.C. (either B.Sc. passed or S.S.C. passed student) Examination held by the M. S. University of Baroda in March/April, at the first attempt. (b) To the student who secures the highest number of marks at the Final year D.T.T. Examination held by the M. S. University of Baroda in March/April, at the first attempt. (c) To the student who secures the highest number of marks at the B.Text. (Engg.) Examination (degree course), held by the M. S. University of Baroda in March/

1	2	3
		April, at the first attempt.
		(d) To the student who secures the highest number of marks at the B.Text. (Tech.) examination (Degree course) held by the M. S. University of Baroda in March/April at the first attempt.
(vii) Bhagwadiya Shri Narharilal Akolkar Maharaj Memorial Cash Prize Fund from the Secretary, Shrimad Bhagwat Astottarshat Parayan and Gyan Yagna Samiti, Baroda.	5001/-	For awarding two cash prizes of equal amount as under: (a) To the student who has passed the Shastri Examination with at least second class, obtaining the highest number of marks in the subject of 'Shuddhadvaita Vedanta Darshana' held by the M. S. University of Baroda in March/April, at the first attempt. (b) To the student who has passed the Acharya Examination with at least second class, obtaining the highest number of marks in the subject of 'Shuddhadvaita Vedanta Darshana' held by the M. S. University of Baroda in March/April at the first attempt.

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 1972-73 are given in Appendix VIII.

(2) Revenue Accounts:

The receipts and disbursements during the financial year 1972-73 were Rs. 1,77,27,025-70 and Rs. 1,99,86,266-33 respectively leaving a deficit of Rs. 22,59,240-63. Details of the Accounts are given in Appendix IX.

(3) Grants:

The University received grants totalling Rs. 47,56,477 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., 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 works of various buildings, extensions, additions and alterations and an amount of Rs. 27,74,145-33 was spent during the year on capital works.

(2) Ordinary and Special Repairs:

The total expenditure on repair works during the year was Rs. 2,24,220-92 and Rs. 3,62,536-79 on Ordinary and Special Repairs respectively. Also an expenditure amounting to Rs. 9,169-41 was incurred on immediate petty repairs to buildings.

10. Department of Continuing/Adult Education

The Council of the M. S. University of Baroda decided to establish the Department of Continuing/Adult Education by passing a Resolution No. 2(10) of 1971. The Department started functioning in August, 1972 when Mr. K. V. Patel was appointed Professor and Head of the Department. The Department received a grant for a period of three years (1971-74) from the University Grants Commission on 75:25 percent basis in order to establish this Department. Administratively, the Department is directly under the Vice-Chancellor. The Department 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 at present envisaged, will be to co-ordinate, guide, facilitate and provide leadership for educational programmes at the University level for adults. When found expedient, Department will also take up activities of external services by way of correspondence courses.

CHAPTER II—OFFICERS OF THE UNIVERSITY

1. Officers

(1) The Chancellor

Shri Fatehsinhrao 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.

(a) During the year under report, the Vice-Chancellor attended the following meetings:

- (i) Meetings of the Vice-Chancellors of the State Universities at Raj Bhavan, Ahmedabad, on 16th April, 1972 and 24th September, 1972 and at Jamnagar on 7th June, 1972.
- (ii) Joint Meeting of the Council of Higher Education and State Education Advisory Committee at Ahmedabad on 18th June, 1972.
- (iii) Co-ordination Committee for University Education at Ahmedabad on 18th June, 1972.
- (iv) Third Meeting of the Committee for Shri Aurobindo Birth Centenary Celebrations at Ahmedabad on 19th June, 1972.
- (v) Standing Committee Meetings of the Inter-University Board of India at New Delhi on 5th and 6th September, 1972.
- (vi) First Meeting of Shri Jawaharlal Nehru Commemoration Fund Committee at Ahmedabad on 14th September, 1972.
- (vii) Executive Committee Meeting of the Indian University Association for Continuing Education and Seminar on Correspondence Courses at Mysore on 25th and 26th October, 1972.

(b) The Vice-Chancellor conducted four cases as Chairman, Advisory Board, under the Maintenance of Internal Security Act, 1971 in Ahmedabad from 15th to 18th October, 1972 and two cases from 26th to 28th November, 1972.

(c) The Vice-Chancellor left on his own on a tour of European Countries and U. K. on 21st July and returned on 21st August, 1972.

(d) The Vice-Chancellor left on 13th January, 1973, on a visit to Australia at the invitation of the Australian Government for the purpose of observing the work on Continuing Education being done in various Universities there and returned on 10th March, 1973.

(3) The Pro-Vice-Chancellor

Professor P. J. Madan, B.Sc. (Eng.), 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) 21st Meeting of the All India Council for Technical Education at New Delhi on 22nd April, 1972
- (ii) Meeting of the Institute of Technology and Science at Ahmedabad on 28th April, 1972
- (iii) Council Meeting of the Institution of Engineers (India) at Srinagar, on 14th, 15th and 16th May, 1972.
- (iv) 35th Meeting of the Joint Council of Management, TAIRO at Bombay, on 13th June, 1972.
- (v) Meeting of the Board of Governors, I.I.T., Bombay on 27th July, 1972.
- (vi) Meeting of the Court of the Indian Institute of Science at Banga on 1st September, 1972.
- (vii) Meeting of the Board of Governors, S. V. Regional Engineering College at Surat on 8th September, 1972.
- (viii) 10th Meeting of the State Council for Technical Education at Ahmedabad on 24th October, 1972.
- (ix) Meeting of the High Power Reviewing Committee, Regional Engineering College, Allahabad on 3rd and 4th November, 1972.
- (x) 29th Meeting of the Post-graduate Board for Architecture, Ministry of Education at New Delhi on 4th December, 1972.
- (xi) 11th Meeting of the Council of Institutes of Technology, Ministry of Education, Government of India, New Delhi on 23rd December, 1972.
- (xii) Meeting of the Vice-Chancellors of the State Universities at Raj Bhavan, Ahmedabad on 22nd January, 1973.

(4) Deans

The following Officers worked 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. T. V. Patel (Upto 30-4-1972)
 Dr. V. P. Bhatt (from 1-5-1972)
 (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 continued to work as the Deputy Librarian.

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	Principal, College of Indian Music, Dance and Dramatics
(iv) Shri H. C. Mehta	Principal, Sanskrit Mahavidyalaya
(v) Shri K. D. Shah (Upto 30-4-1972)	Principal, Polytechnic
Prof. K. K. Thakore (from 1-5-1972)	
(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. Amin Offg. Principal (Upto 26-12-1972)	Principal, University Experimental School
Shri M. M. Chokshi (from 27-12-1972)	

CHAPTER III--THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 15 members. The term of office of the Syndicate members ended on 31st October, 1972, and elections were held in the months of October and November 1972 to elect members. The following persons were the 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. Metha
- ‡7. Dr. C. P. Munshi
8. Shri F. H. Palejwala
- †9. Shri J. A. Pandya
10. Professor N. S. Pandya
- *Shri C. M. Parikh
11. Dr. C. B. Patel
12. Shri D. K. Patel
- £13. Dr. T. V. Patel
14. Shri U. M. Patel
- * Professor B. J. Sandesara
- %15. Professor S. M. Sen
- * Dr. S. H. Shah

During the year the Syndicate held 16 meetings in which they considered and passed resolutions on 641 items. The following statement shows the attendance of the members at the Ordinary and Special meetings of the Syndicate during the year:

- * Ceased to be a member from 1-11-1972
- † Became a member from 1-11-1972
- ‡ Became a member from 19-11-1972
- % Ceased to be a member from 1-11-1972 and then became a member from 19-11-1972
- £ Ceased to be a member from 1-5-1972 and then became a member from 1-11-1972

Name	No. of meetings held	Class of meetings O. Ordinary S. Special	Present	Absent
Shri N. K. Vakil, Vice-Chancellor	15	O. 11 S. 4	O. 9 S. 2	O. 2 S. 2
Professor P. J. Madan, Pro-Vice-Chancellor	15	O. 11 S. 4	O. 11 S. 4	— —
Director of Education or his nominee	15	O. 11 S. 4	O. 10 S. 1	O. 1 S. 3
†Professor D. M. Desai	15	O. 11 S. 4	O. 11 S. 4	— —
Dr. S. P. Desai	15	O. 11 S. 4	O. 11 S. 2	— S. 2
£Professor R. N. Mehta	9	O. 5 S. 4	O. 5 S. 4	— —
‡Dr. C. P. Munshi	9	O. 5 S. 4	O. 5 S. 2	— —
Shri F. H. Palejwala	15	O. 11 S. 4	O. 11 S. 4	S. 2 —
\$Shri J. A. Pandya	9	O. 5 S. 4	O. 5 S. 4	— —
Professor N. S. Pandya	15	O. 11 S. 4	O. 11 S. 4	— —
*Shri C. M. Parikh	6	O. 6 S. —	O. 6 S. —	— —
Dr. C. B. Patel	15	O. 11 S. 4	O. 11 S. 3	— S. 1
Shri D. K. Patel	15	O. 11 S. 4	O. 11 S. 4	— —
£Dr. T. V. Patel	10	O. 6 S. 4	O. 4 S. 2	O. 2 S. 2
Shri U. M. Patel	15	O. 11 S. 4	O. 8 S. 3	O. 3 S. 1
*Professor B. J. Sandesara	6	O. 6 S. —	O. 6 S. —	— —
Professor S. M. Sen	15	O. 11 S. 4	O. 10 S. 4	O. 1 —
*Dr. S. H. Shah	6	O. 6 S. —	O. 2 S. —	O. 4 S. —

* Ceased to be a member from 1-11-1972.

† Became a member from 1-11-1972.

‡ Became a member from 19-11-1972.

\$ Ceased to be a member from 1-11-1972 and then became a member from 19-11-1972.

£ Ceased to be a member from 1-5-1972 and then became a member from 1-11-1972.

2. The Senate

The Senate consisted of 100 members. The changes in the membership during the year were as under :

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

- | | |
|-----------------------------|-----------------------------------|
| (1) Professor U. J. Joshi | (5) Professor P. S. Kalwachwala |
| (2) Shri A. R. Baxi | (6) Shri A. M. Pandya |
| (3) Shri K. D. Shah | (7) Shri M. Sivagnanam |
| (4) Shri B. L. Mankad | |

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

- | | |
|-------------------------------|---------------------------------|
| (1) Shri I. J. Patel | (6) Professor A. K. Mehta |
| (2) Shri J. B. Sandil | (7) Shri H. J. Patel |
| (3) Shri V. R. Mehta | (8) Shri K. G. Badlani |
| (4) Professor K. K. Thakore | (9) Shri N. R. Patel |
| (5) Shri V. L. Devkar | (10) Shri Jashwantlal S. Shah |

The Senate met twice during the year—on 22nd October, 1972 and 25th March, 1973. 75 members attended the meeting of 22nd October, 1972 and 58 that of 25th March, 1973.

First meeting (22nd October, 1972) :

The following business was transacted :

The election of seven Fellows to the Syndicate, two Deans to the Syndicate, one member each on the Board of Visitors for 4 institutions, two Fellows on the Board of Extra Mural Studies, and three members on the Board of Accounts were held. Six Fellows were assigned to Faculties. Replies to questions were given. Lapsed grants amounting to Rs. 3,58,590/- in the Capital Budget and Supplementary grants amounting to Rs. 7,71,608/- in the Revised Budget were sanctioned. Proposal for amendment of Statute 91 was considered and passed. Ordinances and Rules mentioned in Pamphlet No. 9 of Handbook Part II—1967 and Pamphlet No. 4 of Handbook Part IV regarding Text-books for examination in Arts, Science, Commerce, Technology and Engineering, Fine Arts and Home Science were passed. The Twenty-Third Annual Report and Twenty-Third Annual Accounts of the University for the year 1971-72 were passed and the excess of expenditure over the revised estimates for the year 1971-72 was also approved. The Report of the Board of Accounts for the year 1971-72 was considered and passed. The proposal for institution of teaching posts in the Faculty of Arts, Faculty of Science, Faculty of Education and Psychology, Faculty of Technology and Engineering, Faculty of Fine Arts, Faculty of Home Science, College of Indian Music, Dance and Dramatics, and Polytechnic, and the proposal for the institution of the posts created by the Syndicate for the Faculty of Arts, Faculty of Science, Faculty of Education and Psychology, Depart-

ment of Extension Services, Faculty of Fine Arts, Faculty of Home Science, Oriental Institute, College of Indian Music, Dance and Dramatics, Sanskrit Mahavidyalaya, M. K. Amin Arts and Science College and College of Commerce, Padra, Faculty of Technology and Engineering, Polytechnic, and University Library were passed. The proposal for the institution of Research Fellowships, Scholarships, Studentships, Medals and Prizes were passed.

Second meeting (25th March, 1973)

The following business was transacted :

The item for the election of the Vice-Chancellor was passed over for taking up the same on 15-4-1973 by calling another meeting of the Senate. Election of one member each on the Board of Visitors for 3 institutions was held. Five fellows were assigned to Faculties. Replies to questions were given. The Annual Financial Statement comprising of the revised estimates for the year 1972-73 and the estimates for the year 1973-74 were considered and passed. The proposal for amendment of Statute 199 was considered and passed. Ordinances and Rules mentioned in Pamphlet No. 10 of Handbook Part II—1967 were passed. The proposal for the institution of teaching posts in the Faculty of Arts, Faculty of Education and Psychology, Faculty of Commerce, Faculty of Technology and Engineering, College of Indian Music, Dance and Dramatics, and M. K. Amin Arts and Science College and College of Commerce, Padra, and the proposal for instituting and redesignating the teaching posts in the Faculty of Commerce and Faculty of Technology and Engineering were passed. The proposal for the institution of Medals and Prizes was passed.

CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research met four times during the year on 31st July, 17th November, 18th December, 1972 and 26th February, 1973. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate :

(1) Progress reports of various schemes previously approved and recommendations for their continuation where necessary. Consideration and recommendation of new research schemes for implementation during the year 1973-74;

(2) Panels of names of referees to examine the theses of 58 students for the award of Ph.D. degree in different subjects;

(3) Recognition of 39 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) 42nd and 43rd half-yearly Progress Reports of the Critical Editions of Old Gujarati Texts (Prachin Gurjar Granthmala);

(5) The National Dairy Research Institute, Karnal (Haryana) be recognised as a Centre for purposes of carrying on research work for the Ph.D. degree in Microbiology under the Faculty of Science for the benefit of eligible students of this University or persons deputed by this University;

(6) Approved the addition of the following provision in the existing O. Ph.D. 13:

“Notwithstanding the provision contained in para (b) above, the Council of Post-graduate Studies and Research may recommend to the Syndicate in special cases to permit the candidates to submit their Ph.D. thesis late by granting necessary extension, subject to the condition that they shall have to pay the necessary tuition fees for each additional term or a part thereof.”

(7) Approved the addition of the following provision in the existing O. Ph.D. 9 :

“Each candidate shall be required to submit to the University Office 3 copies of the summary of his thesis, consisting of not more than 1000 words at the time of the actual submission of his thesis. After the thesis is accepted for the award of the Ph.D. degree, this summary will be forwarded to the Editor for being published in the University Journal.”

It is also decided that the above provision be added as O. Ph.D. (H.S.) 10 A in the existing Ph.D. Ordinances meant for the Faculty of Home Science.

2. Faculties

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

Sr.No.	Names of the Faculty	Date of the meeting
(1)	Arts	18-11-1972
(2)	Science	19-11-1972
(3)	Commerce	18-11-1972
(4)	Education and Psychology	18-11-1972
(5)	Medicine	(i) 17- 6-1972 (ii) 18-11-1972
(6)	Technology and Engineering	19-11-1972
(7)	Fine Arts	19-11-1972
(8)	Home Science	18-11-1972
(9)	Social Work	18-11-1972
(10)	Joint meeting of the Faculties of Social Work and Arts	18-11-1972

There being no important business, the meeting of the Faculty of Law was not held.

(1) Faculty of Arts :

- (i) Recommended that the optional papers viz. papers I A and VI A for B.A. (English—Major) be taught from June, 1973.
- (ii) Recommended that the M.A. (English—Principal) Optional papers III and VI be introduced after 1975.
- (iii) Recommended that students who have passed certificate course in German of this University or any course recognised as equivalent thereto be permitted to offer German as an Optional at F.Y. B.A. even though they might have passed Preparatory Arts or equivalent examination without German as one of the optionals.
- (iv) Recommended that the students who have passed the Diploma course in German conducted by this University or any course recognised as equivalent thereto be permitted to offer German as a Minor at S.Y. B.A. even though they might have passed F.Y. B.A. examination without German as one of the optionals, provided such candidates pass a duly conducted test on the poems prescribed for F.Y. B.A. but not for Diploma.

- (v) Recommended that field work in Linguistics be made compulsory for all students of F.Y., S.Y. (Minor and Major) and T.Y. B.A. Classes and that the field work be assessed as a part of the regular internal test for which 30% marks are assigned.

- (vi) Recommended that Mathematics be allowed to be combined with Linguistics as an allied subject among the optional subjects offered at F.Y. B.A.

(2) Science :

- (i) Approved the syllabus etc. for one year M.Sc. Course in Hydrogeology.
- (ii) Recommended that Semester and Credit System be introduced for the M.Sc. courses in Bio-chemistry and Microbiology.
- (iii) Recommended that the existing syllabi in Zoology for M.Sc. (Prev.) and M.Sc. (Final) be modified and approved as recommended by the Board.
- (iv) Recommended that the proposed syllabus for Econometrics for M.Sc. (Final) be approved.
- (v) Recommended that one optional paper on ' Computer Programming with applications ' be introduced at M.Sc. (Final) and the syllabus for the same be approved as recommended.
- (vi) Recommended revised syllabus for S.Y. B.Sc. and T.Y. B.Sc. courses in Chemistry (Principal and Subsidiary).
- (vii) Recommended that the existing standard of passing viz. 40% prescribed for the Pre-medical examination of this University be raised to 50% and the existing O. Sc. 7 be modified as recommended.

(3) Commerce :

- (i) Recommended that the proposed revised syllabi in the special subject of Banking at S.Y. B.Com. and T.Y. B.Com. examinations be modified and approved.
- (ii) Recommended that the proposed syllabus of Mathematics of F.Y. B.Com. be approved as recommended by the Mathematics Board.
- (iii) Amended the existing O. Com. 33 by deleting the word " recognised " from the said Ordinance.
- (iv) Amended the existing O. Com. 31 regarding the standard of passing at the Final Year B.Com. degree examination.

(4) Education and Psychology :

- (i) Recommended that students offering Psychology at F.Y. B.A. and S.Y. B.A. as a Minor subject will be required to attend atleast five experiments in the laboratory.

- (ii) Recommended that out of the three tests two tests be held for the Theory Part of Special groups of M.A. Part I and Part II Examinations and one test be held for the practical of the said groups.
- (iii) Recommended that the existing distribution of papers etc. for teaching scheme for S.Y. B.A. and T.Y. B.A. Psychology courses be revised and approved as proposed.
- (iv) Recommended that the existing O.M.Ed. 2, O.M.Ed. 3, O.M.Ed. 4, O.M.Ed. 6, O.M.Ed. 6 A, O.M.Ed. 7, O.B.Ed. 3 and O.B.Ed. 6 A be modified and approved.
- (v) Recommended that the new special field "Population Education" be introduced as an optional subject at the B.Ed. level.

(5) *Medicine :*

- (i) Recommended that the draft rules and detailed syllabus for instituting the Post-graduate Diploma in Public Health (D.P.H.) course in the Faculty of Medicine be approved.
- (ii) Recommended that the matter relating to abolishing of Internal average marking as represented by the I, II and III M.B.B.S. students, be recorded.
- (iii) Recommended details of the papers I and II in the subjects of Medicine and Surgery.
- (iv) Recommended that the existing subjects viz. Pathology, Bacteriology and Elementary Parasitology—200 marks of the Second M.B.B.S. course be substituted by the words "Pathological Sciences"—400 marks of the Second M.B.B.S. course and the existing O.M. 18 (i) be read as under :
 "(i) Pathological Sciences 400 marks".

- (v) Recommended that the holders of B.D.S. qualifications from the Statutory Universities/Institutions of India be deemed eligible for registration for the 3½ year M.Sc. Pharmacology and M.Sc. Microbiology degree courses in the Faculty of Medicine.
- (vi) Recommended that the holders of B.D.S. and B.V.Sc. qualifications from the Statutory Universities/Institutions of India be deemed eligible for registration for the 3½ year M.Sc. Anatomy, M.Sc. Physiology and M.Sc. Bio-chemistry degree courses in the Faculty of Medicine.
- (vii) Amended the existing O.M. 55 relating to the admission requirements for M.Sc. (Medical) course and recommended.

- (viii) Recommended that the existing O.M. 43 and O.M. 50 be deleted from the Handbook Part III 1969 of the Faculty of Medicine from the year 1973 admission to the Post-graduate courses of the Faculty of Medicine.
- (ix) Recommended the revised schemes of examinations for M.D. Physiology and M.S. Anatomy degree courses.
- (x) Recommended the final revised draft rules and detailed training programme for instituting M.D. Bio-chemistry degree course in the Faculty of Medicine.
- (xi) Recommended that the following work be considered as equivalent to one year's Housemanship as required under Rule No. 2 (iii) of the rules regarding Post-graduate Studies in the Faculty of Medicine :

- (a) Must have worked as a full-time Post-graduate student in the department concerned before taking up the M.D./M.S. Diploma Courses in a manner equivalent to Housemanship requirements.

OR

- (b) Worked in hospitals approved by the Medical Council of India for Internship training for a period of three years.

OR

- (c) Worked in State Medical Service or Armed Force Medical Service or other equivalent service for a period of five years.

OR

- (d) Worked in rural areas atleast for two years.

- (xii) Recommended that the existing diploma course in Radiology (D.M.R.) and the existing degree course in M.D. (Radiology) be bifurcated into two separate diploma courses and two separate degree courses as recommended by the Medical Council of India as stated below and the same be instituted under the Faculty of Medicine.

- (i) Diploma in Radiology Diagnosis (D.M.R.D.)
- (ii) Diploma in Radiology Therapy (D.M.R.T.)
- (iii) Degree Course leading to the degree of M.D. (Radio Diagnosis).
- (iv) Degree Course leading to the degree of M.D. (Radio Therapy).

Also recommended details regarding schemes of examinations etc. for the above courses.

(6) *Faculty of Technology and Engineering :*

- (i) Recommended that the proposed scheme of teaching on the basis of Semester System for Textile Engineering and Textile Technology Degree Courses be approved and be introduced progressively from June, 1973.
- (ii) Recommended that the proposal to start Co-operative Courses in Civil Engineering Department of 11 Semesters (5½ years' duration) be approved and candidates will be awarded B.Tech. (Civil) degree, after successful completion of 11 Semesters.
- (iii) Recommended that the scheme of teaching and examination for one year Post-graduate Diploma course in Petrochemical Technology be approved.
- (iv) Recommended that the proposal to award B.Tech. Degree in Civil, Mechanical branches for those successfully completing the Co-operative Course of 5½ years' duration be approved.
- (v) Recommended that the proposal of Introduction of the Supplementary courses in Mechanical and Electrical Engineering for the benefit of the students who have passed Extended Diploma courses in Electrical Engineering/Mechanical Engineering and amending relevant Ordinances be approved. Such a benefit be also given to students who have passed Diploma in Mechanical/Electrical Engineering of three year duration (i.e. Regular batch) in order to qualify for the supplementary Extended Diploma in Electrical/Mechanical branches.

(7) *Fine Arts :*

- (i) Recommended that the title of the existing course in Western Aesthetics be renamed as "Introduction to Western Aesthetics".
- (ii) Recommended that separate lectures for the subject of History of Art be arranged for the benefit of diploma holders.
- (iii) Recommended that internal tests be conducted for the assessment of the work done by the diploma students.
- (iv) Recommended that the details of the syllabi, admission requirements etc. for the M.A. (Fine) Art History course be approved as recommended by the Sub-committee.
- (v) Recommended that the proposed modified rules relating to standard of passing, award of classes and exemption for the Degree, Post-graduate degree and diploma courses run at the College of Indian Music, Dance and Dramatics be modified and approved.

- (vi) Recommended that the existing rule No. 6 printed in Music College prospectus of 1972-73 be modified and approved as under :

" If a student fails in any of the practicals of the specialization subject, he will have to rejoin the college as a regular student and study the subject. He will not be eligible to appear in the practical examination as an ex-student "

- (vii) Recommended that the following recommendation of the Sub-committee be accepted and the same be implemented on the basis of the present syllabus and necessary instruction for the Museology course be given from June to June without observing vacations, provided adequate teaching help is provided for :

" Students with a Master's degree in Science or Humanities will be able to complete their training in 12 months, July to June (foregoing vacations and working continuously). "

- (viii) Recommended that the in-servicemen, coming for training (for Diploma in Museology) from museums will be given the same facility to complete their training in 12 months as students with a Master's degree.

- (ix) Recommended that the Department of Museology can enlarge its activities by introducing short-term certificate courses in (a) Museum Education Service, (b) Exhibition Techniques and (c) Taxidermy each of three months' duration. It also modified and approved details of syllabi, admission requirements etc. for the above certificate courses and recommended that the same be implemented provided adequate teaching help is given.

(8) *Home Science :*

- (i) Recommended that the existing 501 " Statistics and Research Methods " course of the M.Sc. (Home) degree course be replaced by the " Introduction to Statistics " (511) and Statistics for research (612) and Research Methods (549) courses and the syllabi for these new courses be approved as proposed.
- (ii) Recommended that the outline of H.M. 477—Household Equipment—4 Credit course offered at the B.Sc. (Home) 4th Year programme be revised and approved.
- (iii) Recommended that the holders of M.A. degree in Economics of this University or a degree recognised as equivalent thereto be considered eligible for registration for the M.Sc. (Home)—Home Management degree course as advanced students.

- (iv) Amended existing O.H.S. 10 A, O.H.S. 10 (1), O.H.S. 10 (II), O.H.S. 13, O.H.S. 15, of the Faculty of Home Science.
- (v) Recommended revised scheme of examination for the B.Sc. (Home) Child Development Course.
- (vi) Recommended Pre-requisites for the B.Sc. (Home) Foods and Nutrition course.
- (vii) Recommended new syllabus in the subject of Sociology for the S.Y. (Home) Class.

(9) *Social Work :*

Recommended that the syllabus etc. for the M.S.W. course of the year 1972-74 be modified and approved for the years 1973-75.

(10) *Joint Faculties of Social Work and Arts :*

Recommended that the recommendations regarding institution of (i) B.A. Social Work and (ii) Professional Diploma in Industrial Relations and Personal Management be referred back to the Syndicate.

3. Boards of Studies

There are 49 Boards of Studies in different subjects. The Boards met during the year as shown below :

Sr. No.	Name of the Board	Date of the meeting
(1)	Sanskrit, Pali and Prakrit Language and Literature	7-9-1972
(2)	Persian, Urdu and other Asian Language and Literature	7-9-1972
(3)	Hindi Language and Literature	18-9-1972
(4)	Gujarati Language and Literature	14-9-1972
(5)	Marathi Language and Literature	7-9-1972
(6)	English Language and Literature	21-9-1972
(7)	Modern and Ancient European Languages and Literature	8-9-1972
(8)	Sociology	15-9-1972
(9)	History, Archaeology and Ancient Indian Culture	23-9-1972
(10)	Philosophy	20-9-1972
(11)	Linguistics	8-9-1972
(12)	Library Science	28-9-1972
(13)	Political Science	19-9-1972
(14)	Economics	19-9-1972
(15)	Physics and Meteorology	20-9-1972
(16)	Chemistry	27-9-1972
(17)	Botany	22-9-1972

Sr. No.	Name of the Board	Date of the meeting
(18)	Zoology	20-9-1972
(19)	Bio-chemistry	29-9-1972
(20)	Microbiology	22-9-1972
(21)	Geology	22-9-1972
(22)	Mathematics	28-9-1972
(23)	Statistics and Actuarial Science	25-9-1972
(24)	Geography	23-9-1972
(25)	Education and Educational Administration	29-9-1972
(26)	Psychology	25-9-1972
(27)	Banking and Business Finance	13-9-1972
(28)	Accounts	13-9-1972
(29)	Commerce including Business Administration	14-9-1972
(30)	Co-operation	14-9-1972
(31)	Business Economics	15-9-1972
(32)	Anatomy and Physiology	26-9-1972
(33)	Pharmacology and Pathology	9-9-1972
(34)	Medicine, Surgery, Midwifery etc.	30-9-1972
(35)	Technology (Textile)	21-9-1972
(36)	Civil Engineering and Applied Mechanics	26-9-1972
(37)	Mechanical Engineering and Metallurgical Engineering	26-9-1972
(38)	Electrical Engineering and Electronics Engineering	26-9-1972
(39)	Chemical Engineering	27-9-1972
(40)	Architecture	23-9-1972
(41)	Law	9-9-1972
(42)	Painting, Sculpture, Applied Arts, Art History and Graphic Arts	27-9-1972
(43)	Music, Dance and Dramatics	29-9-1972
(44)	Museology	28-9-1972
(45)	Child Development	16-9-1972
(46)	Foods and Nutrition	16-9-1972
(47)	Home Science Education and Extension	18-9-1972
(48)	Clothing and Textiles and Home Management	19-9-1972
(49)	Social Work	18-9-1972

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 :

Two meetings of the Boards of Sports were held during the year. The Board appointed (i) a Committee to select teams to represent the University tournament, (ii) a Committee to organise and conduct the South Zone Inter-University Basket Ball Tournament for women, (iii) the Officer-in-Charge, Badminton and Table Tennis. The Board recommended (i) to honour Shri S. B. Parab and Kumari Achala Deore (Kho-Kho) and Shri Sankpal (Cricket) at the time of Annual Prize Distribution, for getting the Arjun Award, (ii) to frame rules and regulations for Weight Training Club, (iii) to give colours to the teams participating in matches with out-side teams in Baroda or in Gujarat, (iv) to provide facilities of Badminton (Open Court), Basket Ball and Volleyball to the Institutions on availability of the ground etc. in consultation with the Heads of Institutions, (v) to establish the School of Physical Education after finalisation of the scheme and its approval by the Board, (vi) to institute the "Ranjit-award" for the best cricketer of the year.

2. Publication Board:

The Committee met twice during the year on 9th August, 1972 and 19th December, 1972. It considered and recommended for publication the works (i) 'A Comparative study of English and Gujarati Syntaxes' by Dr. J. J. Mody. (ii) 'Kandala, the North Western Gate-way of India' Research Paper VI of the Department of Geography, (iii) A Catalogue of theses accepted by University (iv) "Capital—Output Relations in Indian Manufacturing during 1946-64" by Dr. S. R. Hasim and Dr. M. M. Dadi as Vol. No. 2 of "The Maharaja Sayajirao University Economic Series".

3. Library Committee

The Committee met on 27th June, 1972. It approved the subscription of Journals for renewal and the report of the satisfactory service rendered by the appointed vendors. The Committee in their report dated 13-3-1973 (arrived at by circulation) approved the allocation of the book grant of Rs. 2,00,000/- sanctioned by the University Grants Commission.

4. University Building and Planning Committee

The Committee met on 18th December, 1972. It appointed a Sub-committee which met on 9th January, 1973 and recommended various works of

Ordinary and Special Repairs amounting to Rs. 3,25,000 and purchase of cupboards in the halls, providing street lights at the Padra College, Works in the Faculties of Technology and Engineering and Fine Arts, water purification plant for Swimming Pool, Canteen and Common Room in Arts Faculty Campus, etc. amounting to Rs. 4,75,000 approximately. The Sub-committee also recommended construction of water Tank over the Maharshi Vishvasaraiya Hall at a cost of Rs. 20,000/- and conversion of 3" water main to 4" water main (pipelines) from Adhyapak Kutir to the Swimming Pool and to the Faculty of Home Science at a cost of Rs. 28,000/-.

5. Standing Committee on Equivalence of Examinations :

The committee met twice during the year 1972-73 on 31st July, 1972 and 26th February, 1973. It considered a number of items regarding equivalence of various examinations and special cases of eligibility of students.

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 for purposes of admission to available higher courses of studies in this University if otherwise eligible :

(a) Jiwaji University, Gwalior :

B.Sc. Part I
B.A. Part I

F.Y.B.Sc.

F.Y.B.A. (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 Pre-University or equivalent course in the Universities concerned).
F.Y.B. Com.

B.Com. Part I

(b) Guru Nanak University, Amritsar :

Pre-University Science
Pre-University Commerce
Pre-University Arts

Preparatory Science
Preparatory Commerce
Preparatory Arts (Provided it is passed after passing the S.S.C. examination of the Gujarat State or a recognised examination equivalent thereto with English as one of the subjects as required under the existing rules.).

B.Sc. Part I
B.Com. Part I

F.Y.B.Sc.
F.Y.B.Com.

B.A. Part I

F. Y. B. A. (Provided the students concerned have passed the S.S.C. or its equivalent recognized examination with English as one of the subjects prior to their joining the Pre-University or equivalent course in the Universities concerned.)

(c) *University of Udaipur, Udaipur :*

Pre-University Arts

Preparatory Arts (provided it is passed after passing the S.S.C. examination of the Gujarat State or a recognised equivalent examination thereto with English as one of the subjects as required under the existing rules.)

Diploma in Early Childhood Education

Diploma in Early Childhood Education (provided it is passed after passing the S.S.C. examination of the Gujarat State or an examination recognised as equivalent thereto with English as one of the subjects as required under the existing rules.)

(d) *Himachal Pradesh University, Simla*

Pre-University Science

Preparatory Science

Pre-University Commerce

Preparatory Commerce

Pre-University Arts

Preparatory Arts (provided it is passed after passing the S.S.C. examination of the Gujarat State or an examination recognised as equivalent thereto with English as one of the subjects as required under the existing rules.)

B.Sc. Part I

F.Y.B.Sc.

B.Com. Part I

F.Y.B.Com.

B.A. Part I

F.Y.B.A. (provided the students concerned have passed the S.S.C. or its recognised equivalent examination with English as one of the subjects prior to their joining the Pre-University or equivalent course in the Universities concerned.)

(e) *University of Calicut, Calicut :*

Pre-University Science

Preparatory Science.

Pre-University Commerce

Preparatory Commerce.

Pre-University Arts

Preparatory Arts (provided it is passed after passing the S.S.C. examination of the Gujarat State or an examination recognised as equivalent thereto with English as one of the subjects as required under the existing rules.)

(f) *National Council for Rural Higher Education of the Ministry of Education, Government of India :*

Post-graduate Diploma in Agricultural Economics and Co-operation

M.A. degree for purposes of registration only for the Ph.D. degree in Agricultural Economics subject with the condition that actual admission may be granted by the Dean, Faculty of Arts in consultation with the Head, Department of Agricultural Economics.

(g) *University of Jabalpur, Jabalpur :*

LL.B. Part I

First LL.B. (General)

LL.B. Part II

Second LL.B. (General)

(h) *The Department of Technical Education, Guindy, Madras :*

Pre-Technical Course

Preparatory Science for purposes of admission to F.Y. B.Sc. class, subject to the condition that such students will be allowed to select only those subjects for their degree examination as are considered suitable for them by the Dean of the Faculty of Science.

Such students will also be eligible for appearing at the Competitive Selection Test to be held by this University for admission to the B.E. I (C.M.E.Ch. Met.) and F.Y.B.Arch. courses provided it is passed with the required percentage of marks in the aggregate as laid down by the University from time to time.

- (i) *Indore University, Indore*

B.Sc. Part I

- (j) *West African Council, West Africa*

West african G.E.C.
(Old Level)

- (k) *Ministry of National Education
Government of Tanzania, Tanzania,
Africa*

National Form
Four Examination

F.Y.B.Sc.

Corresponding Preparatory Arts/Com./
Sc. (Provided it is passed with atleast
five subjects including English and
other required subjects as laid down in
relevant Ordinances of this University)

Corresponding Preparatory Arts/Com./
Science examination (Provided the said
examination is passed with at least five
subjects including English and other
required subjects as laid down in the
relevant Ordinance of this University
and if students concerned have qualified
for award of the National Form Four
Examination Certificate).

Statutory Universities in Gujarat

- (1) *B.E. I (I & II Semesters taken
together)*

*B.E. II (III & IV Semesters taken
together)*

B.E. I (I & II Semesters taken
together)

B.E. II (III & IV Semesters taken
together)

However no equivalence is recognised
for B.E. I (I Semester) & B.E. II &
III Semester examinations

General Rule

- (m) *Various examinations conducted by
different Universities/Boards:*

- (i) The Higher School Certifi-
cate/Higher Secondary
Examinations in Arts/
Science/Commerce condu-
cted by the Statutory

Corresponding Preparatory examina-
tion in Arts/Science/Commerce respec-
tively of this University for purposes
of admission to available higher courses
of studies in this University as per

Boards in India, after
undergoing study in
recognised schools having
at least 11 years study
scheme.

- (ii) The Pre-University Arts/
Science/Commerce of the
Statutory Universities in
India.

- (iii) The Indian School Certi-
ficate examination held in
1963 and onwards under
the New Pattern.

- (iv) School Certificate Exam-
ination or General Certi-
ficate of Education (Ordinary
level) of the Cam-
bridge University or of
other recognised examin-
ing bodies in U. K. and
other countries or East
African Certificate of Edu-
cation Examination con-
ducted by the East African
Examination Council and
the Cambridge Syndicate,
West African G.C.E. Form
Four examination of
Government of Tanzania.

- (n) *The Board of Intermediate Education,
Andhra Pradesh, Hyderabad:*

The Intermediate Public Exam-
ination.

existing rules if the said examination/s
is/are passed with Arts/Science/Com-
merce subject/s as the case may be as
required under relevant Ordinances of
this University and provided the exam-
ination/s is/are passed as a regular
candidate and provided the examina-
tions as stated in (iii) above are pass-
ed with at least five subjects including
English and other 3 stream subjects
(as per existing rules) in order to be
eligible for admission to F.Y. B.A.,
F.Y. B.Sc. and F.Y. B.Com. courses of
this University if they are otherwise
eligible as per rules of the University.

Corresponding Preparatory examina-
tions in Arts/Science/Commerce of this
University for purposes of admission
to available higher courses of studies
as under :

- (1) Preparatory Arts examination of
this University provided it is pass-
ed after passing the S.S.C. exam-

ination of the Gujarat State or an examination recognised as equivalent thereto with English as one of the subjects, prior to their joining the above course in the institute concerned.

(2) Preparatory Commerce examination of this University, provided it is passed with the subjects of Commerce, Economics and Geography from B (Humanities)

(3) Preparatory Science examination of this University provided it is passed with English, Physics, Chemistry and Mathematics or Biology as subjects.

Such students be also considered eligible to appear at the Competitive Selection test to be held by this University for admission to the First Year of the Five Year Integrated Degree Courses in C.M.E. Ch. Met. and F.Y.B. Arch. courses if they have passed the said examination with five subjects including English, Physics, Chemistry (i.e. Physical Sciences) and Mathematics as subjects with the required percentage of marks as laid down by the University from time to time and if they are otherwise eligible. Such students be also considered eligible for admission to the F. Text. Engg. & F. Text. Technology degree courses.

6. Academic Committee

The Committee did not meet during the academic year 1972-73.

7. Preparatory Courses Committee

The General Education and the Preparatory Courses Committee met on 12th April, 1972. The committee recommended the following :

- (i) The present practice of reserving 20% seats in the First Year Diploma in Polytechnic for students passing S.S.C. with English and with Technical subjects be continued.
- (ii) 50% of the seats be reserved for admission to Preparatory Commerce for students passing S.S.C. with English and with both the Commerce subjects viz. Elements of Commerce and Book-keeping in addition to those get admitted in normal course on merit.
- (iii) the existing syllabi etc. for English i.e. for Paper I, Paper V and Paper II (Additional English) be modified and approved as recommended by the Preparatory Sub-committee in English;
- (iv) the revised syllabus in Mathematics for Preparatory Arts and Preparatory Commerce courses be approved as recommended by the Preparatory Courses Sub-Committee for Paper V—Mathematics for Preparatory Arts, Commerce and Science;
- (v) recommended a Committee to consider the re-organisation of courses at the Preparatory Stage vis-a-vis the integration of the General Education courses at the degree stages. It further recommended that till such time as the matter is finalized and implemented, the General Education Department may continue to arrange programmes of General Education on a different pattern making them more attractive, utilitarian and beneficial as discussed at the Sub-Committee meeting.

8. Deans' Meeting

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

- (i) steps be taken to see that some senior and experienced teachers are made available for some of the teaching work in lower classes;
- (ii) starting of tutorial classes for the weak students;
- (iii) provision be made for appointment of Review Committees for each and every Departments of the University for the review of work already done by them and for periodical review once in 3 years;
- (iv) to make a suitable change in Terms and Vacations;
- (v) to make programmes for the staff and students for the scarcity affected areas in Gujarat State, especially in Baroda and Panchmahal Districts;
- (vi) the present system of wearing gowns and hoods at the University Convocations be replaced by Scarves of different colours.

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 supply of petrol, services of vehicles, cleaning and adjustment of typewriters 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 25th January, 1973. It submitted to the Syndicate, the revised estimates for the year 1972-73 and the estimates for the year 1973-74 after scrutinising various proposals received from Faculties, Institutions and offices of the University.

10. Investment Committee

The Committee held nine 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

Eight 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 2nd March, 1973 for scrutinizing the essays on “ભારતીય રાજકારણમાં વિરોધ પક્ષ-સમસ્યાઓ અને ભાવિ” for the year 1971-72. The prize was awarded to Shri Anand Mavlankar for writing the best essay for the year 1971-72.

It was decided to invite essays on the subject “ગુજરાતમાં પારસીઓનું આગમન અને તેમનો ગુજરાતની સંસ્કૃતિમાં ફાળો” for the year 1972-73.

13. Advisory Committee for the University Health Centre

One meeting of the Committee was held during the year.

14. Wardens' Committee

Three meetings of the Committee were held during the year.

15. Advisory Committee for N.S.S.

The Committee met on 29th August, 1972. It recommended (i) to authorise the Vice-Chancellor to purchase a vehicle for Ruro-Tribal Project to be taken under the N.S.S. Programme, (ii) to reorganise the administrative set-up of the present establishment within Rs. 20/-per student per year for running

the N.S.S. activities smoothly, (iii) to appoint a programme Committee consisting of Hon. Director, N.S.S. as Chairman and the Representatives of various departments of the Government, Municipal Corporation and Social Organisations etc.

16. Selection Committees

There were 18 meetings of the Selection Committee, appointed under Section 48 (2) of the Act and they recommended 19 candidates for appointment to the posts of Professors and Readers in various Faculties and Institutions in the University. There were 35 meetings of the Standing Selection Committee for Junior posts and 24 meetings of the Standing Selection Committee for Class III posts and 54 and 41 candidates respectively were recommended by these Committees, for appointment to different posts in the University.

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

The Committee met twice during the year on 6th October, 1972 and on 13th February, 1973. The total amount of help given to students by way of tuition fees, examination fees, books, educational materials, loans etc. during the year 1972-73 was Rs. 34,947-00.

18. The Central Advisory Committee

The Committee held two meetings on 30th September, 1972 and 5th October, 1972 under the Chairmanship of Prof. K. N. Naik, Dean, Faculty of Commerce. Some of the recommendations of the Committee are as under :

- (i) The M. S. University Union be given more grants by the University.
- (ii) Part-time Degree Courses in Engineering be started for the benefit of Diploma holders.
- (iii) Morning Classes for Preparatory Commerce students be held in the second term of the year 1972-73.
- (iv) More staff be given at the Library of Shri M. K. Amin Arts and Science College and College of Commerce, Padra.
- (v) The issue of giving two book passes instead of one at the University Library be referred to the University Library Committee.
- (vi) All academic issues concerning the Medical College and the holding of additional Pre-Medical examination in October be referred to the relevant Boards of Studies and the Faculties.
- (vii) The President, M. S. University Union, be given the suitable status and also administrative allowance of Rs. 100/- p.m. and other benefits.

- (viii) The General Secretary, the Vice-President and the President, M. S. University Union be invited to attend the Senate meetings in future.
- (ix) Students staying in Halls of Residence be provided with facilities such as Tubelights, hot water in winter, a cup board, adequate plumbing and sanitary arrangement, etc.

19. Board of Visitors:

A meeting of the Board of Visitors for the Faculty of Fine Arts was held on 28th March, 1972. The Board recommended that—(a) Under-graduate course in Ceramic Design be implemented after it is drawn up and considered by the Board of Studies, (b) Under-graduate courses in Art teaching within the frame work of the present under-graduate courses of the Faculty be drawn and considered by the Board of Studies. The course may be implemented between the Faculty of Fine Arts and Faculty of Education and Psychology without any substantial financial implications and that the Department of Education, Gujarat State be approached for its recognition before its implementation; (c) a post of an Archivist in the scale applicable to Assistant Lecturer i.e. Rs. 300-25-600 (plus D.A. as per teaching posts) be created in the Art History Department.

20. Board of Extra-Mural Studies:

The Board recommended a programme of extension lectures by University teachers and outside experts. An amount of Rs. 10,500/- was sanctioned for the purpose.

CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

During the year under report, 77 new students (15 in Faculty of Arts, 24 in Faculty of Science, 25 in Faculty of Education and Psychology, 7 in Faculty of Technology and Engineering, 4 in Faculty of Medicine and 2 in Faculty of Commerce) 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		
Shri Desai Gunvantrai J.	Professor R. N. Mehta	Critical and Cultural Study of Kaumarikakhand.
Mehta Pratima R.	Professor R. N. Mehta	Ceramics of Gujarat.
Ramendranath	Professor A. G. Javadekar	The Existential approach to Humanity.
Nitinkumar J.	Professor A. G. Javadekar	The problem of evil—A study in Comparative Religion.
(5) Kum. Nighoskar Yogini G.	Professor A. G. Javadekar	Universals and Particulars.
(6) Kum. Pandya Sudhaben N.	Dr. R. M. Patel	Life and Works of Vadilal Motilal Shah: A study.
(7) Shri Joshi Shriniwas D.	Dr. (Smt.) J. M. Panchanadikar	Urbanization and Social Mobility of outcaste of Baroda, Gujarat State.
(8) Shri Mahahing Phramaha Prachitrapalya	Professor K. C. Panchanadikar	Religion and Social System in Thailand.
(9) Shri Vyas Harishchandra D.	Dr. S. G. Kantawala	Legends in the Puranas (with reference to three selected legends).
(10) Shri Dave Madangopal R.	Dr. M. G. Gupta	Madhavanlal Kamkandala Ki Katha per Adharit Hindi Prem Kavya ka Anushilan.
(11) Shri Kadam Shankarrao D.	Shri N. G. Joshi	Marathi Shahiri Poetry—and its study as the 'Heroic' poetry for the period 1700 to 1800

1	2	3
(12) Shri Parikh Rameshkant G.	Professor S. C. Misra	The Social, Economic and Political Ideas of Maharaja Sayajirao III of Baroda.
(13) Shri Sangem Kishanrao	Professor V. N. Kothari	Economic aspects of the growth of Indian Railways.
(14) Shri Siddiqui Mehmood H.	Dr. Syed Waheed Ashraf	The Memoirs of Sufis written in India from the beginning upto the End of the 16th Century A.D.
(15) Shri Raval Rajankumar K.	Professor R. N. Mehta	British Romantic Poetry and Fine Arts—Some Parallels.

Faculty of Science

our 1) Kum. Abyamma N. V. Guja	Dr. (Smt.) R. Rajalakshmi	Effect of nutritional deficiencies on selected aspects of brain metabolism.
(c) Rs. 30 Shri Sankaran Kutty A. Depa	Dr. (Smt.) R. Rajalakshmi	Studies on the nutritional status of different sections of the Population.
2 nd (3) Shri Shah Dinesh Ghanshyamdas	Dr. (Smt.) R. Rajalakshmi	Nutritional Studies on Pre-School Children.
(4) Shri Dave Jitendra R.	Dr. (Smt.) R. Rajalakshmi	Studies on the composition of the bone in relation to age and nutritional status.
(5) Shri Shah Shaileshkumar S.	Dr. (Smt.) R. Rajalakshmi	Studies on skeletal development and skeletal status in relation to Age Sexual nutritional status.
(6) Shri Nakhasi Hiralal D.	Dr. (Smt.) R. Rajalakshmi	Effect of nutritional deficiencies on the lipid metabolism of brain in Albino Rats.
(7) Shri Shah Sumant Goculdas	Dr. M. M. Patel	Investigations on the spectra of some diatomic molecules.
(8) Shri Maru Maulesh P.	Dr. H. S. Desai	Electron Molecule Interaction.
(9) Shri Sandesara Niranjana B.	Professor N. S. Pandya	Study of Crystal Surfaces.
(10) Kum. Acharya Charusheela T.	Dr. J. R. Pandya	Study of Crystals.

1	2	3
(11) Shri Kolly Gopalkrishna Kotaiah	Dr. P. R. Mahadevan	Studies on the mechanism of action of caffeine acriflavin and the ophylline on the repair of D.N.A. in Micro-Organism, Irradiated with ultra-violet light.
(12) Shri Madia Ashwin M.	Professor V. V. Modi	Mechanism of Riboflavin Biogenesis in <i>Eremothecium Ashbyi</i> .
(13) Shri D. V. Mohan Das	Professor V. V. Modi	Amino Acid Metabolism in Rhizobial Species and Symbiosis.
(14) Kum. Baqui Salma M.	Professor V. V. Modi	Factors affecting Mango Ripening.
(15) Shri Bhagwat Ashokkumar S.	Professor C. H. Pathak	Ecology and Flora of Sadadvel Range and Adjoining Areas.
(16) Shri Masrani Kanaiyalal V.	Dr. S. L. Bafna	Sorption Studies of Coumarins with Ion Exchange Resins.
(17) Kum. Shah Kailas R.	Dr. K. N. Trivedi	Studies in the synthesis of Furano Compounds.
(18) Shri Kamath Vinayak D.	Dr. S. L. Bafna	Sorption studies of Benzoic Acids with Ion-Exchange Resins.
(19) Kum. Parikh Purnima C.	Dr. P. K. Bhattacharya	Solution Stabilities and Structures of some mixed ligand complexes.
(20) Kum. Gawande Prabha S.	Professor S. M. Sethna	Studies in oxygen heterocycles.
(21) Shri Virakant Omprakash K.	Professor (Smt.) V. A. Janaki	Land use in Haryana.
(22) Shri Malpathak Ganesh T.	Professor S. S. Merh	Geology of Amba-Mata area in N. Gujarat.
(23) Shri Shringarpure Dhananjaya M.	Professor S. S. Merh	Stratigraphical and Palaeontological studies of the Tertiary rocks of Western Kutch with special reference to their environmental significance.

1	2	3
(24) Shri Yadav Pratapsing L.	Professor R. V. Shah	Comparative studies on morphological and physiological aspect of certain tissues of developing and adult representative vertebrates.
Faculty of Education and Psychology		
(1) Shri Mukhopdhyay Marmar N.	Prof. M. B. Buch	Barriers to Change in Secondary Education.
(2) Shri Gupta Ramkishore S.	Professor M. A. Quraishi	The role of Central Agencies in the development of Primary Education in India.
(3) Shri Patel Vinodchandra B.	Professor D. M. Desai	Educational Thought and Practices in Gujarat during the British rule as reflected in the Biographical form of Gujarati Literature.
(4) Shri Butala Madhusudan C.	Dr. S. M. Divekar	A study of the practices and problems of supervision in the Secondary Schools of Gujarat State.
(5) Shri Shinde Ganpatrao B.	Professor D. M. Desai	A study of the impact of Panchayati Raj Bodies on the administration of Primary Education in Central Gujarat.
(6) Smt. Shelat Neela A.	Professor D. M. Desai	Study of Organizational Climate, Teacher Morale and Pupil Motivation toward Institution in Secondary Schools of Baroda District.
(7) Shri Vishnuprasad A.	Professor D. M. Desai	A study of the Impact of Democratic Institution of Panchayat on the Administration of Primary Education in North Gujarat.
(8) Shri Patted Gurubasappa M.	Professor M. B. Buch	Perceptual factors as Predictors of student performance in Colleges of Education.

1	2	
(9) Smt. Padma M. S.	Professor M. B. Buch	Teaching Patterns and Pupils' Attainment.
(10) Shri Phodhipracha Phramaha Chamraschai	Dr. B. K. Passi	A Comparative study of rural Teacher Training in Baroda, India, and the rural Teacher Training in Mahasaraxam, Thailand.
(11) Kum. Vyas Vasumati C.	Dr. B. K. Passi	Factors affecting the Teacher Morale.
(12) Shri Shah Rasiklal S.	Professor D. M. Desai	A Critical study of some aspects of Higher Education in Kheda and Panchmahal Districts.
(13) Shri Desouza Francisco Lousis Jose	Professor M. B. Buch	Planning School Education in Goa.
(14) Kum. Mehta Yashumati M.	Professor M. B. Buch	An enquiry into the communication pattern of Secondary School Teachers in Class Room.
(15) Shri Saini Shivkumar V.	Professor D. M. Desai	The Social, Economic and Political Factors in the Development of Education in British India during 1921-1947.
(16) Shri Phatole Rattanlal C.	Dr. D. B. Desai	A study of motivation and its correlates in relation to performance among University students.
(17) Shri Shaida Avinashkant	Dr. B. K. Passi	Teaching Patterns Question Types and Reinforcement and Pupils Attainments.
(18) Shri Mathew George	Dr. B. K. Passi	Teacher effectiveness and Micro Teaching.
(19) Shri Saratchandra Raj Gopala Pillai	Dr. B. K. Passi	Changing Teacher Behaviour through Feedback.
(20) Shri Roy Sanirmal	Professor M. B. Buch	Classroom questioning and Pupil Achievement: An Enquiry into Teaching Stage.

1	2	3
(21) Smt. Dekhtawala Pramila B.	Dr. D. B. Desai	Teachers Morale in the Secondary Schools of Gujarat.
(22) Shri Patel Narendrakumar O.	Dr. B. K. Passi	Changing Teacher Behaviour through feedback by micro teaching and Instructional strategy.
(23) Kum. Lakshmi Subramaniam	Dr. D. B. Desai	Conducting Achievement Motivation Development Programme on Teacher Trainees and Studying its effect on their performance.
(24) Shri Narula Kirpalsingh S.	Dr. D. B. Desai	A study of achievement motivation personal preferences, perception anxiety, risk taking behaviour and other correlates in relation to intelligence, socio-economic status and performance of Teacher trainees of Orissa State.
(25) Smt. R. Sweety Premkumar A. P. Raj	Dr. N. S. Pathak	A study of Motivational and Personality Factors Influencing Consumers, Buying Behaviour.

Faculty of Technology and Engineering

(1) Shri Bhagia Shankerlal G.	Professor S. K. Damle	Study of Tensile Strength of Concrete.
(2) Shri Modi Pravinchandra M.	Professor R. M. Dave	An analytical and experimental investigation of Thermal Stratification in Lakes and Ponds.
(3) Shri Goroor Srinivasan P.	Professor R. M. Dave	Study of Artificial Methods of Desratification of Lakes and Ponds.
(4) Shri Vaishnav Suryakant V.	Professor S. K. Damle	The Finite Element Method for Reinforced Concrete columns.

1	2	3
(5) Shri Vyas Jayanarayan N.	Professor P. V. Parikh	Consolidation characteristics of clays.
(6) Shri Biyani Krishnakumar R.	Professor P. V. Parikh	Shearing Behaviour of Non Uniform Soils.
(7) Shri Desai Chandrakant P.	Professor S. M. Sen	Electric circuits and Materials.

Faculty of Medicine

(1) Shri Jani Madhusudan D.	Dr. S. Shrinivasan	Role of Quinazidine Derivatives in Cell Metabolism.
(2) Shri Vyas Rajendra S.	Dr. P. B. Roy	Incidences of Toxoplasmosis in the City of Baroda (including human and animals).
(3) Shri Pillai Raghunathan R.	Dr. O. D. Gulati	Analysis of the effects of some intra-ventricularly administered amines and amino-acids on body temperature.
(4) Shri Velamakanni Seeta Ramakrishnamurthy Lakshminarayana	Dr. O. D. Gulati	Role of catx in mechanical contractile nespanself vascular smooth muscle of rats.

Faculty of Commerce

(1) Shri Patel Mafatbhai C.	Dr. H. P. Chokshi	Problems of pricing transport services in a developing Economy (with reference to India).
(2) Shri Shah Jayantilal K.	Dr. S. Srikantiah	An Evaluation of Investment Projects in the Public Sector (Selected Units) in India.

2. Research Schemes financed by the University

Department	Research Scheme
Faculty of Arts	
Economics	Trend of Government Activity in India since Independence by Dr. K. N. Reddy.

Department	Research Scheme
Faculty of Science	
Physics	(i) Microtopography of Crystal Surfaces by Dr. V. P. Bhatt. (ii) Study of absorption spectra of some diatomic molecules by Dr. M. M. Patel. (iii) Fabrication of field-ion-Microscope for studying atomic arrangement on crystal surfaces by Dr. J. R. Pandya.
Chemistry	Nitrogen Mustards from 9-Chloromethyl Phenanthrene derivatives as Anticancer Agents by Dr. K. N. Trivedi.
Bio-chemistry	Effect of irradiation on the microbial decomposition of sewage by Professor C. V. Ramkrishnan.
Geology	(i) Metamorphic and Structural Studies of the rocks laying between Balaram and Kanpura Area, NE of Palanpur, North Gujarat by Professor S. S. Merh. (ii) Paleoecology in relation to the depositional environments of the Mesozoic of Kutch by Professor S. S. Merh and Shri D. M. Shringarpure.
Faculty of Technology and Engineering	
Applied Mechanics	Dynamic Response of Highway Bridges using Finite Elements by Professor S. K. Damle.
Physics	Ultrasonic Absorption and Velocity in doped metal Crystals and alloys by Dr. (Smt.) R. K. L. Padmini.
Chemistry	(i) Mesomorphism and Chemical Constitution by Dr. J. M. Lohar. (ii) Chelating Polymers by Dr. A. M. Talati.
Faculty of Fine Arts	
Painting	Photographic and Pictorial Documentation of Wall Paintings (Murals) from areas around Baroda by Shri Jyotindra M. Bhatt.
Faculty of Home Science	
Child Development	(i) A study of the factors affecting the Personality Adjustment during Adolescent years by Smt. Anjali Mehta.
Clothing and Textiles	(ii) Studies in wash and wear Finishes by Dr. B. N. Chaulkar.

3. Research Schemes sponsored by the Outside Agencies

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

Department	Title	Name of the Financing Agency
Faculty of Arts		
Archaeology	Archaeological and Anthropological co-relation in Panchamahals	U.G.C.
Agricultural Economics	" Changing farm Production and organisation in Developing Agriculture—a Case study of the impact of Developmental effort in agriculture in a District in Gujarat State	United States Department of Agriculture, ARS, American Embassy, New Delhi, under AmPL 480 grants.
Economics	(i) " Production Functions and Problems of Agriculture in Gujarat "	U.G.C.
	(ii) " Survey of Research in Economics of Education in India "	I.C.S.S.R.
	(iii) " Economic Profiles of Scheduled Castes in Gujarat "	I.C.S.S.R.
Hindi	(i) The Critical Study of Ram-Rasamrit Sindhu of Kripanivas Swami	U.G.C.
	(ii) The Critical Study of Alankar works written in Gujarat	U.G.C.
Political Science	Party Organization, Party Behaviour in Baroda City	I.C.S.S.R.
Sanskrit	Prabhasa-Khanda—A Study	U.G.C.
Faculty of Science		
Bio-Chemistry	(i) " Formulation of low cost meals for post-weaning children in the age group 2-5 years and their chemical and biological evaluation "	United States Department of Agriculture, Agricultural Research Service, American Embassy, New Delhi, under Am PL 480 grants.

Department	Title	Name of the Financing Agency
	(ii) "Biochemical studies on algal bacterial symbiosis in high rate oxidation ponds and algal"	United States Department of Agriculture, Agricultural Research Service, American Embassy, New Delhi, under Am PL 480 grants.
	(iii) "Study of Indian foods from legumes and the production of similar fermented foods from U.S. soyabeans"	—do—
	(iv) Amino acid metabolism in plant tumour tissues cultivated in vitro	C.S.I.R.
	(v) "Effect of nutritional deficiency on psychological performance and selected aspects of brain biochemistry"	US Naval Research Department, U.S.A.
	(vi) Physical stature, clinical, biochemical and radiological status in relation to age and economic status in rural and urban areas	U.G.C.
	(vii) Studies on Brain Enzymes	U.G.C.
Botany	(i) Micronutrient deficiencies of certain plant and their respiratory processes in relation to toxicity	U.G.C.
	(ii) Studies on the effect of growth regulation on the germination physiology of sorghum and cotton	U.G.C.
	(iii) Survey of Gujarat Forest	United States Department of Agriculture, Agricultural Research Service, American Embassy, New Delhi, Under Am PL 480 grants.

Department	Title	Name of the Financing Agency
Geology	Detailed investigation of inundation of the Rann of Kutch	Ministry of Defence
Microbiology	Genetic Transformation in Rhizobia	United States Department of Agriculture, Agricultural Research Service, American Embassy, New Delhi, under Am PL 480 grants.
Physics	(i) On studies on Crystal Physics	S.I.R.C. Government of Gujarat.
	(ii) Molecular spectroscopy	S.I.R.C. Government of Gujarat.
Zoology	Histophysiological studies on the wound healing and repair in certain peripheral and Visceral organs of diabetic animals	S.I.R.C. Government of Gujarat.
Faculty of Home Science		
Home Science Education and Extension	(i) Values of urban home-makers and their acceptance of home science extension programme	U.G.C.
	(ii) Development of Interviews questionnaires knowledge of rural mothers of children under five years regarding children's illness due to lack of sanitation and hygiene	Ford Foundation
Child Development	(i) Longitudinal study of motor and mental development of Indian babies (0-30 months)	PL 480 grant
	(ii) Influence of supplied eyes in draw-a-man test	U.G.C. ap Ex
	(iii) A study of the need of Pre-school education as perceived by the parents	Ford Foundation

Department	Title	Name of the Financing Agency
	(iv) Evaluating the readiness for the nursery school etc.	Ford Foundation
Home Management	(i) Values and satisfactions of owners of housing built under cooperative housing Schemes	U.G.C.
	(ii) Performance characteristics of household appliances. The cost per term of the different heating appliances used by rural families	Ford Foundation
	(iii) A comparative study of attitudes towards certain household tasks of a selected group of home makers with Home Science and non Home Science educational background	Ford Foundation
Medical College		
Pharmacology	Pharmacological Research Unit	C.S.I.R.
Gynaecology	Introduction of Labour, Evaluation of Different Methods	Government of Gujarat
Bio-chemistry	(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.

CHAPTER VII—LECTURES AND DEPUTATIONS

1. Lectures

The following lectures were delivered under the auspices of the University and University Grants Commission Scheme of Exchange of Teachers (Unassigned grant) during the year 1972-73.

(A) Maharaja Sayajirao Memorial Lectures :

Name of the Lecturer	Date	Subject
Dr. Y. Nayadumma, Director General, C.S.I.R., New Delhi	16-2-1973	Problems and Prospects for Technology Utilisation

(B) Lectures under University Grants Commission Unassigned Grant Faculty of Science

Professor B. M. Udgaonar	12-8-1972	Some aspects of scaptering at high energy by Nuclei
Professor J. V. Bhatt	12-8-1972	Microorganisms
Dr. R. V. Talwalkar	12-8-1972	(i) Glucose tolerance test, its interpretation and significance. (ii) Renal function tests, their interpretation and clinical significance.
Dr. S. A. Vasavda	12-8-1972	Ayurvedic Drugs
Professor S. R. Patel	12-8-1972	Acidity constants O-substituted anilinium Ions
Dr. M. D. Karkhanawala	12-8-1972	Periodicity of properties and electronic structure
Professor J. P. Thapliyal	12-8-1972	Thyroid Physiology and Functions in Reptiles and Birds
Dr. R. V. Talwadekar	12-8-1972	Hemoglobin and Hemoglobino-pathies
Dr. G. N. Pandya	25-11-1972	Splitting of Group Extensions
Dr. M. B. Sahasrabudhe	8-12-1972	(i) Chemotherapy of Cancer (ii) Role of immune response in Leukemia

Name of the Lecturer	Date	Subject
Dr. L. Gorini	13-1-1973	Ribosomal discrimination of transfer I & II
Dr. Charles Holt	27-1-1973	Recent progress on the genetics of <i>Physarum Polycephalum</i> , a model system for the molecular biology of eukaryotes
Professor K. B. Deshpande	29-1-1973	Methods and Problems in Mycology and Verology
Dr. V. K. Srivastav	7-2-1973	(i) Sedimentary structures and their significance (ii) Methodology of Palaeo-current Analysis (iii) Palaeocurrent variability and pattern in relation to sedimentary domains
Professor N. N. Murti	19-12-1972	Series of four lectures on Experimental approach to development and differentiation
Dr. Chandrasekhar	15-2-1973	Development of processed food at CFTRI
Mr. B. L. Burt	15-2-1973	Taxonomic Status of certain plants
Dr. T. V. Hanurav	15-2-1973	Unified Theory of Sampling
Dr. J. N. Chatterjee	15-2-1973	Synthesis in the Benzidine group
Dr. T. V. Subbaiah	15-2-1973	Genetics and Applied Microbiology (3 Lectures)
Dr. B. S. Vaidya	15-2-1973	Control of Algae growth in fresh water reservoir
Dr. M. M. Laloraya	15-2-1973	Free Radicals and charge transfer complexes in Plant Physiology
Faculty of Education and Psychology		
Mr. Heinz Pfeiffer	12-2-1973	Administration of Schools in the age of Technological advance
Professor Anwar Ansari	13-2-1973	Types of Behaviour therapies
Professor P. H. Prabhu	13-2-1973	Bio-Feed system and Yoga Psychology
Dr. N. N. Shukla	13-2-1973	Research Methods in Education

Name of the Lecturer	Date	Subject
Faculty of Technology and Engineering		
Dr. Madhu Mehta	5-7-1972	(i) Computer Organisation (ii) Mini Computers
Dr. A. K. Niyogi	12-1-1973 to 17-1-1973	(i) Epidemiology of communicable (ii) Air Borne Diseases (iii) Air Pollution control (iv) Hospital Sanitation
Dr. S. K. Chatterjee	25-1-1973	(i) Factory Act (ii) Occupational Hazards
Professor B. B. Parulekar	3-3-1973	Recent Trends in Refrigeration
Dr. H. L. Oswal	4-3-1973	(i) Application of Photogrammetry in Engineering Projects (ii) Developments and Economics of Photogrammetry in Survey Techniques
Faculty of Social Work		
Shri Sridhar	21-1-1973	Mental Health
Dr. A. B. Khurana	21-1-1973	Concept of Team functioning in Mental Health Field
Dr. Rani Jagatani	21-1-1973	Treatment in Mental Hospital
Dr. Rose Chacho	21-1-1973	Mental Health
Dr. O. N. Ganguli	21-1-1973	Mental Health Problems in Industry
Shri Houston	21-1-1973	Mental Health in the Home
Dr. I. M. Desai	21-1-1973	Multi disciplinary approach in Mental Health
Faculty of Law		
Dr. I. C. Saxena	9-1-1973	Law of Contracts
(C) Lectures under Extra Mural Grant and other Schemes		
Faculty of Arts		
Dr. R. C. Badwe	14-1-1973	Philosophy and Society

Name of the Lecturer	Date	Subject
Faculty of Science		
Dr. A Parthasarathy	22-9-1972	Certain salient data significant in stratigraphic and sedimentological studies
Professor R. N. Sukheswala	22-9-1972 and 23-9-1972	Alkaline Rocks
Shri M. Mohan Rao	21-10-1972 and 24-10-1972	PERT
Dr. B. R. Murthy	20-11-1972	Hybrid strains of Bajra
Professor P. Krishna	16-12-1972	Polymorphism and Poly-lypism in Crystals
Professor Mehra	31-1-1973	Tissue Culture
Professor Samir K. Banerji	5-2-1973	Desalination, an International problem
Principal A. R. Rao	10-2-1973	An application of Jordan Curve Theorem
Dr. T. V. Hanurao	12-3-1972	Unified Theory of Sampling
	13-3-1972	(6 lectures)
	14-3-1972	
Faculty of Education and Psychology		
Dr. Dawoodbhai A. Ganchi	21-9-1972	Teaching English as a Secondary Language—the process from manipulation to communication
Dr. R. G. Bhatt	7-12-1972	Education—an instrument for socio-economic development with special reference to India
Mr. M. Abu Baker	4-1-1973	Centre State Relationship
Dr. B. K. Ramanujan	30-1-1973	Goals of Psycho-Therapy
Dr. A. B. Khorana	30-1-1973	Goals of Psycho-Therapy
Dr. H. G. Desai	6-2-1973	A Decade (1961-70) of Educational Research in Gujarat
Dr. D. Karakal S. J.	10-2-1973	The role of Headmasters in the Schools
Dr. S. K. Misra	17-2-1973	Alienation and Satisfaction in job
Shri D. L. Amin	17-2-1973	Motivation to work

Name of the Lecturer	Date	Subject
Faculty of Commerce		
Shri V. C. Shah	12-1-1973 and 13-1-1973	Project evaluation
Shri H. M. Joshi	9-2-1973	(i) The overall picture of Rural credit in India (ii) The Development of long-term credit for agricultural development
Shri B. S. Mehta	23-2-1973	(i) Tax Planning (ii) Taxation of Non-residents
Shri H. B. Parikh	6-3-1973	Financial Tools for Project Management
Principal S. R. Gokhale	8-3-1973	Leadership
Shri S. J. Aslot	21-3-1973	(i) Advances against goods (ii) Bank Books Checking and Control
Faculty of Technology and Engineering		
Professor Dinesh Mohan	12-7-1972	Research and Development in Building Materials
Professor Subir	24-7-1972	Fluidics and its application
Shri G. C. Mathur	28-7-1972	(i) The problem of Low cost housing (ii) Experimental building and Housing construction (iii) Cost Saving Factory in Building
Shri P. R. Gharekhan	11-10-1972	Treatment and Disposal of Petro-chemical wastes
Shri C. J. Shah	19-12-1972	Design and Construction of French Systems Wells in Baroda Water Supply
Shri M. J. Gandhi	30-1-1973 and 31-1-1973	Overseas Communication

Name of the Lecturer	Date	Subject
Shri M. P. Apte	31-1-1973 to 1-3-1973	(i) Spectacular Engineering Failures
		(ii) Problems in Bridge Foundations
		(iii) Recent trends in bridge construction methods
Shri B. C. Shah	2-2-1973	Sprinkler Irrigation as a measure for integrated development of surface and sub-surface water resources
Shri J. F. Shah	3-2-1973	Effect of Human Activities on Hydrologic Processes
Faculty of Fine Arts		
Professor Robert Clements	5-8-1972	Understanding Michaelangelo's Art through his Poetry, illustrated with slides
Shri Prabha Shankar Sompura	16-10-1972	Indian Temple Architecture
Shri B. N. Goswami	5-1-1973	Screen Printing Techniques
Shri Harkant B. Shukla	29-1-1973	The Folk Dances of Gujarat
Shri Rohit Modi	5-2-1973	Typography
Faculty of Home Science		
Smt. Mahendrika Bhat	30-9-1972	Adaptation of the WISC
Mrs. Lindo Richter	9-1-1973	Women's lib
Dr. Khurana	8-3-1973	Running programme for exceptional children
Smt. Moitra	8-3-1973	Running programme for exceptional children
Faculty of Social Work		
Shri S. K. Majmudar	18-9-1972	Psychiatric Services—the contribution of B. M. Institute, Ahmedabad
Shri Ishwar Petlikar	6-10-1972	Pre and Post Marriage Problems and their solutions
Shri K. D. Zangarde	3-12-1972	Social Work and Social Change

Name of the Lecturer	Date	Subject
Shri M. S. Pandit	13-12-1972	Human Rights and Fundamental freedom
Swami Rangnathanandaji	6-1-1973	Professional body and social service
	7-1-1973	Swami Vivekanand's Message to the Modern Youth
	8-1-1973	(i) Professional Social Work in context of Indian Philosophy (ii) Ramakrishna Mission's contribution in development of Indian Society
Faculty of Law		
Hon'ble Justice Shri M. P. Thakkar	17-9-1972	Constitutional Law
Shri Girishbhai Patel	14-10-1972 16-10-1972 27-1-1973 28-1-1973	Fundamental Rights
Dr. I. C. Saxena	9-2-1973 10-1-1973 11-1-1973 12-1-1973 13-1-1973 14-1-1973	Law of Contracts
Professor Narendrasingh	11-2-1973 12-2-1973	Constitutional Law
Shri Dinkarray D. Desai	10-3-1973 11-2-1973	Company Law
College of Indian Music Dance and Dramatics		
Shri Shyam Gogate	8-10-1972	Vocal Music demonstrating Gayaki Aung in Traditional Ragas
Sanskrit Mahavidyalaya		
Shri Pandit Shobhanand Zha	22-1-1973	कौण्ड भट्टस्य वैशिष्ट्य
Shri Pandit Bhagvatiprasad R9	28-2-1973	इलेश निरूपणम्

Name of the Lecturer	Date	Subject
M. K. Amin Arts and Science College and College of Commerce, Padra		
Shri P. K. Puri	18-10-1972	Public Relations in Business
Shri Malcolm Mackenzie	5-12-1972	On the Role of Operations and Research Scientist in Decision Making
Shri Yogeshwerji	6-2-1973	આજના યુગના સંદર્ભમાં યુવાન પેઢીની ગીતાનો સંદેશ
Shri Yashodhar Mehta	7-2-1973	મહામાનવ, મનોબળ, વૈચારિક ચેતના અને ઔપનિર્ણયિક મહામાનવ

2. Deputation to Conferences :

The following membes of the staff of the University were deputed to attend Conferences, Seminars etc. shown against their names as delegates of the University.

Name of the member of the staff	Name, Place and date of the Conferences etc.
Faculty of Arts	
(1) Dr. B. S. Suryavanshi (Archaeology)	60th Annual Conference of the Numismatic Society of India at Varanasi from 10th April to 1st May, 1972
(2) Professor A. G. Javadekar (Philosophy)	45th Session of the Indian Philosophical Congress at Hyberadad from 13th to 16th April, 1972
(3) Dr. M. M. Dadi (Economics)	Seminar on Data Base on Indian Economy Review and Reappraisal at New Delhi from 19th to 21st May, 1972
(4) Dr. A. P. Rana (Political Science)	A Seminar-cum-Orientation Course on Concept, Methodology and Area of Peace Research in India at Ahmedabad from 7th to 9th August, 1972.
(5) Dr. K. T. M. Hegde (Archaeology)	A Seminar on Metallurgy in Ancient India at New Delhi on 15th September, 1972
(6) Prof. V. N. Kothari (Economics)	Indian Census Centenary Seminar at New Delhi from 23rd to 29th October, 1972
(7) Dr. V. K. Chavda	Tenth Annual Conference of Institute of History

Name of the member of the staff	Name, Place and date of the Conferences etc.
(History)	rical Studies at Kurukshetra from 28th to 31st October, 1972
(8) Dr. K. N. Reddy (Economics)	Indian Economics Conference at Bodh-Gaya from 27th to 31st October, 1972
(9) Dr. H. M. Trivedi (Gujarati)	All India Folklore Conference at Rajkot in December, 1972.
(10) Dr. S. M. Dave (Gujarati)	All India Folklore Conference at Rajkot in December, 1972
(11) Prof. A. G. Javadekar (Philosophy)	Indian Philosophical Congress at Kanpur, December, 1972
(12) Dr. (Kum.) S. H. Divetia (Philosophy)	Indian Philosophical Congress at Kanpur, December, 1972
(13) Prof. A. N. Jani (Sanskrit)	All India Oriental Conference at Ujjain from 26th to 28th October, 1972
(14) Shri N. M. Pandya (Economics)	All India Economic Conference at Bodh-Gaya from 27th to 29th December, 1972
(15) Shri S. M. Dave (Sanskrit)	Seminar on Twentieth Century Sanskrit Literature at Bombay from 28th to 30th December, 1972
Faculty of Science	
(1) Professor R. V. Shah (Zoology)	Symposium at Okha in the Marine Biological Research Station on 25th and 26th August, 1972
(2) Dr. A. K. Desai (Zoology)	
(3) Dr. K. N. Trivedi (Chemistry)	
(4) Dr. P. K. Bhattacharya (Chemistry)	Convention of Chemists at Allahabad from 8th to 12th October, 1972
(5) Dr. A. R. Mehta (Botany)	Seminar on Current Trends in Plant Sciences at Delhi from 3rd to 10th October, 1972
(6) Professor S. M. Sethna (Chemistry)	Third All India Scholars' Conference on India's Science Policy and Development uses of the Indian Studies in Science at Bombay from 28th to 31st December, 1972
(7) Dr. S. K. Srivastav (Biochemistry)	Meeting of the Society of Biological Chemistry of India at Pant Nagar from 6th to 8th November, 1972

<i>Name of the member of the staff</i>	<i>Name, Place and date of the Conferences etc.</i>
(8) Professor S. S. Merh (Geology)	Indian Science Congress at Chandigarh from 3rd to 9th January, 1973
(9) Shri S. J. Derai (Geology)	
(10) Dr. M. Sreehari (Statistics)	
(11) Shri C. C. Shah (Mathematics)	9th Gujarat Ganit Mandal at Modasa on 29th and 30th October, 1972
(12) Dr. V. M. Shah (Mathematics)	
(13) Dr. K. K. Rao (Microbiology)	13th Annual Conference of Association of Microbiologists of India at Ludhiana from 28th to 30th October, 1972

Faculty of Education and Psychology

(1) Dr. (Kum.) M. Gon (Psychology)	3rd All India Convention of Clinical Psychologists at Hyderabad on 7th and 8th July, 1972
(2) Professor D. M. Desai (Educational Administration)	15th Annual Conference of Teachers of Education at Coimbatore from 25th to 28th October, 1972
(3) Dr. J. A. Bhagatwala (Education)	9th Gujarat Ganit Mandal at Modasa on 29th and 30th October, 1972
(4) Professor A. S. Patel (Psychology)	(i) Indian Academy of Applied Psychology at Lucknow from 27th to 29th December, 1972 (ii) Indian Science Congress at Chandigarh from 3rd to 9th January, 1973

Faculty of Commerce

(1) Dr. D. J. Mehta (Business Management)	The Indian Association for Business Management at Jaipur from 14th to 17th October, 1972
--	--

Faculty of Technology and Engineering

(1) Professor J. S. Dave (Chemistry)	4th International Liquid Crystal Conference at Kent State University, Ohio (U.S.A.) from 21st to 25th August, 1972
(2) Shri K. M. Shah (Textile Engineering)	Spindles for spinning and doublin frame in Textile industries at Bombay on 20th September, 1972

<i>Name of the member of the staff</i>	<i>Name, Place and date of the Conferences etc.</i>
(3) Shri K. B. Shah (Chemistry)	Indian Science Congress at Chandigarh from 3rd to 9th January, 1973
(4) Dr. A. M. Talati (Chemistry)	
(5) Shri R. M. Pancholi (English)	XXIII Session of All India English Teachers Conference at Ahmedabad from 29th to 31st December, 1972.
(6) Shri George Kurian (Chemistry)	Indian Science Congress at Chandigarh from 3rd to 9th January, 1973.
(7) Shri R. A. Vora (Chemistry)	
(8) Dr. C. M. Patel (Mathematics)	

Faculty of Social Work

(1) Shri B. J. Pandya	Two week Institute for Staff Advisers to the student at New Delhi, April 1972.
(2) Shri S. R. Yardi	A Seminar-cum-Orientation Course on Concept and Methodology and Areas of Peace Research in India at Ahmedabad from 7th to 9th August, 1972.

Faculty of Law

(1) Shri N. N. Buch	12th All India Law Teachers Conference at New Delhi, December 1972.
(2) Shri S. R. Patel	The Annual Conference of the Indian Society of International Law at New Delhi from 10th to 11th March, 1972.

Medical College

(1) Prof. O. D. Gulati	5th International Congress of Pharmacology at San Francisco, U.S.A. from 23rd to 28th July, 1972.
(2) Dr. R. V. Bhatt	Indian Ocean Region Conference of International Planned Parenthood at Bombay from 9th to 15th December, 1972.
(3) Dr. N. G. Sanghavi	Conference of the British Society of Haematology at Aberdeen, U. K. on 31st March, 1973.
(4) Dr. N. A. Dave	XXVI Indian Congress of Radiology at Aligarh, 24th to 27th January, 1973

<i>Name of the member of the staff</i>	<i>Name, Place and date of the Conferences etc.</i>
(5) Dr. V. C. Patel	(i) Conferences of Gujarat State Medical Association at Palanpur and Billimora, 1973 (ii) Gujarat State Surgeon's Conference at Ahmedabad in February, May 1972 (iii) Indian Medical Association Conference at Ahmedabad, December 1972
(6) Dr. S. R. Trivedi	Annual Conference of Indian Orthopaedics Association at Nagpur in August, 1972
(7) Dr. A. T. Phatak	Workshop on 'Care of the Under Fives' at Hyderabad, 6th and 7th October, 1972
(8) Dr. A. S. Chikeramane	(i) Annual Conference of Indian Academy of Pediatrics at Agra, April, 1972 (ii) Seminar on 'Food Industries and Childhood Malnutrition', at Bombay in December, 1972 (iii) Summer Institute on 'Human Nutrition' in June, 1972
(9) Dr. M. A. Patel	All India Surgeon's Conference at Kanpur in December, 1972
(10) Dr. P. S. Nagpaul	XXXII Annual Conference of Association of Surgeons at Kanpur in December, 1972
(11) Dr. C. P. Munshi	(i) 'Medical Meet' Gujarat State Conference at Billimora, 1973 (Chairman of Panel Discussion) (ii) 'Abdominal Pain' Gujarat State Conference at Palanpur, 1972 (Chairman of Panel Discussion) (iii) Intensive Cardiac Care All India Medical Conference at Ahmedabad in December, 1972
(12) Dr. A. B. Kothari	(i) All India Gastroenterologist Conference at Goa, September, 1972 (ii) All India Medical Conference at Ahmedabad in December, 1972

<i>Name of the member of the staff</i>	<i>Name, Place and date of the Conferences etc.</i>
	(iii) Gujarat State Medical Conference at Palanpur, May, 1972 (iv) Gujarat Surgeons' First Convention, February, 1973
(13) Dr. V. K. Desai	(i) All India Ophthalmological Conference at Ahmedabad. (ii) Gujarat State Ophthalmological Conference at Ahmedabad (iii) Seminar on Ophthalmological Teaching at M. S. University of Baroda
	Oriental Institute
(1) Prof. B. J. Sandesara,	Jananaitra of Gujarat Itihas Parishad at Porbandar during last week of October 1972
(2) Dr. U. P. Shah	All India Oriental Conference at Ujjain from 26th to 28th October 1972

CHAPTER VIII—FACULTY OF ARTS

1. 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 Language |

Number of Students

The number of students enrolled in various classes during the year 1972-73 was as under :

Class	Men	Women	Total
(1) Certificate Course in German	374	26	400
(2) Certificate Course in Russian	25	3	28
(3) Certificate Course in French	64	33	97
Total :	463	62	525
(4) Diploma in Russian	6	—	6
(5) Advanced course in Russian	1	—	1
(6) Diploma in German	44	3	47
(7) Advanced Course in German	6	1	7
Total :	57	4	61
(8) F.Y.B.A.	339	314	653
(9) S.Y.B.A.	240	213	453
(10) T.Y.B.A.	325	380	705
(11) Library Science Degree	5	18	23
Total :	919	925	1844
(12) M.A. Part I	76	69	145
(13) M.A. Part II	83	44	127
Total :	159	113	272
(14) Ph.D.	22	2	24
Grand Total :	1620	1106	2726

3. Staff

(a) Present Position :

During the year the staff consisted of 11 Professors (three of whom are in senior scale), 17 Readers, 58 Lecturers, 12 Assistant Lecturers, 4 Part-time Lecturers, 20 Class III 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 their courses.

(b) New Appointments :

- (1) Shri J. K. Vyas, Lecturer in Hindi.
- (2) Shri K. M. Shah, Lecturer in Hindi.
- (3) Dr. A. H. Bhatt, Reader in Political Science.

(c) Teachers upgraded to higher positions :

Name	Designation
(1) Shri R. N. Mehta	} Readers in English appointed as Professors of English.
(2) Dr. J. D. Birje-Patil	
(3) Shri A. P. Rana	Reader in Political Science appointed as Professor in Political Science.
(4) Dr. K. C. Panchanadikar	Reader in Sociology appointed as Professor of Sociology.
(5) Dr. Thomas Pantham	Lecturer in Political Science appointed as Reader in Political Science.
(6) Shri G. K. Agnihotri	Assistant Lecturer in Marathi appointed as Lecturer in Marathi.
(7) Shri N. C. Desai	} Assistant Lecturers in Gujarati appointed as Lecturers in Gujarati.
(8) Shri M. M. Desai	
(9) Kum. P. M. Parikh	
(10) Shri A. K. Goswami	} Assistant Lecturers in Hindi appointed as Lecturers in Hindi.
(11) Shri K. D. Rabari	
(12) Dr. B. G. Sharma	

(d) Teachers who left :

- | | | |
|---------------------------|--------------------------------|--------------------------------|
| (1) Professor V. Y. Katak | Professor of English | Retired from service |
| (2) Professor K. S. Desai | Professor of Political Science | Retired from service |
| (3) Kum. Neelima Saxena | Lecturer in English | Resigned for domestic reasons. |

4. Professional Growth of the Staff

- (a) Published articles/papers in Indian and Foreign Journals

Name	Title of Articles or Papers	Name of the Journal wherein published
(1) Professor R. N. Mehta	Botanical identity of carbonized cereal grains from Nagara	Reprinted from "Curr. Sci." March 5, 1973. 42, No. 5, 179.
(2) Professor A. N. Jani	Abhyarthana (A Sanskrit Poem)	Surabharati, 1972, Baroda
(3) Dr. S. G. Kantawala	(i) Hamsapadika-gitih (in Sanskrit)	Surabharati, 1972, Baroda
	(ii) Two Legends from the Skanda-Purana, A study (jointly with Professor R. N. Mehta)	Purana Bulletin, Banaras, January, 1973.
(4) Professor J. Birge Patil	(i) Review Article on E. M. Forster's Maurice	Quest, Bombay, July 1972
	(ii) Review of Kajecy's T. S. Eliot's Social Criticism	Quest, Bombay, January, 1973
	(iii) The Irony of Allusion and the Vision of the Apocalypse in Marlowe's Dr. Faustus	Volume on Chzabeithan Drama, Nagpur University, 1972
(5) Professor V. N. Kothari	Process of Urban Expansion	Conference Papers, Baroda 1971, Gujarat Economic Association
(6) Dr. K. N. Reddy	Implications of Urbanization to Local Bodies in Gujarat	—do—
(7) Dr. M. M. Dadi	(i) Occupational Structure and Productivity Levels in Districts of Gujarat	—do—

Name	Title of Articles or Papers	Name of the Journal wherein published
	(ii) Population Pressure, Size Distribution of Land Holding and Land Productivity—An Analysis of Inter-regional Variation in Gujarat (Jointly with Dr. S. R. Hashim)	Conference Papers, Baroda 1971, Gujarat Economic Association
(8) Dr. S. R. Hashim	(i) Proximity to Urban Influence for the Districts of Gujarat	—do—
	(ii) Population Pressure, size Distribution of Land Holdings and Land Holding and Land Productivity—an Analysis of Inter-regional Variations in Gujarat (Jointly with Dr. M. M. Dadi)	—do—
	(iii) Inter-Regional Linkages and the Changes in the Pattern of Commodity Trends in India, 1950-51 to 1959-60	Indian Economics Journal, Vol. XIX, No. 2, 1972
(9) Shri N. M. Pandya	(i) An Assessment of the Contribution of External Assistance to India's Economic Development	Indian Economics Journal, Conference Number, December 1972

Name	Title of Articles or Papers	Name of the Journal wherein Published
	(ii) Impact of Urbanization on Fertility Ratio in Gujarat	Conference Papers, Baroda, 1971, Gujarat Economic Association
(10) Shri B. B. Patel	Forces behind Urbanization—an Inter-District and Inter-State Analysis	—do—
(11) Smt. M. N. Shah	Is Urbanization in Gujarat Poverty Induced ?	—do—
(12) Shri B. H. Dholakia	Inter-District Urban Growth Differentials in Gujarat.	—do—
(13) Kum. S. S. Kanetkar	Some Estimates of Immigration and out-migration for the cities of Gujarat	—do—
(14) Dr. V. K. Chavda	(i) भारतीय संस्कृति ઉપર વિદેશી સંપર્કની અસર	ગુજરાત યુનિવર્સિટી, ૧૯૭૨
	(ii) Sir Sayaji Rao Gaekwad III	National Book Trust, 1972
	(iii) A Select Bibliography of Gujarat	New Order Book Co., Ahmedabad, 1972
(15) Shri R. K. Raval	An Essay on Phenomenology	Philosophy and Phenomenological Research, USA, December 1972
(16) Dr. M. G. Gupta	(૧) ગુજરાત મેં ઉપલબ્ધ હિન્દી રચનાઈ—લેખાંક ૩	વિમર્શ, વાર્ષિક, ૧૯૭૨
	(૨) હિન્દી કી રાષ્ટ્રીય કાવ્ય-ધારા મેં પોષર્દજી કા યોગદાન	પોષર્દ અભિનન્દન વિશેષાંક, ફરવરી ૧૯૭૩

Name	Title of Articles or Papers	Name of the Journal wherein published
(17) Dr. D. S. Shukla	ગુજરાત મેં પ્રાપ્ત હસ્તલિખિત હિન્દી ગ્રંથ	સમ્મેલન પત્રિકા, ફરવરી માર્ચ-૧૯૭૩
(18) Dr. B. D. Sharma	(૧) હિન્દી નવગીતોં મેં આધુનિક બોધ	તટસ્થ, મઈ, અવટૂમ્બર ૧૯૭૨
	(૨) અહિલ્યાબાઈ કે ચાર હિન્દી પત્રોં કી માલવી શૈલી	અહિલ્યા સ્મારિકા, ડિસમ્બર ૧૯૭૨
	(૩) માલવી કા ઇતિહાસિક વિકાસ	મા. કવિ આનંદરાવ દુવે અભિનંદન સમારોહ સ્મારિકા, ફરવરી ૧૯૭૩
	(૪) વસન્ત વિલાસ એક માલવ રચના	મધ્યપ્રદેશ, સંદેશ, માર્ચ ૧૯૭૩
(19) Dr. K. M. Shah	અર્વાચીનોમાં આદ્ય નર્મદ અને મારતેન્દુ	સ્વાધ્યાય માસિક, પુ. ૧૦, અંક ૨
(20) Dr. (Kum.) S. H. Divatia	Identity of Indiscernibles	Journals of the Philosophical Association, March 1973
(21) Dr. Thomas Pantham	The Ideological Perspective of Party Organizational Activities in an Urban Setting.	Indian Journal of Political Science, XXXIII (2) April-June, 1972.

(b) Published Books and Brochures

Name of the Teacher	Title of the Book	Name of the Publisher with the month of publication
(1) Professor A. N. Jani	Saptasati (Edited)	Professor A. N. Jani, October, 1972
(2) Dr. K. N. Reddy	Tax Burden on Agriculture in India	Good companions, Baroda, 1972
(3) Dr. R. M. Patel	સિંધલ'શી ચરિત્ર of poet Malayachandra	સ્વાધ્યાય ત્રૌમાસિક, ૧૯૭૨
(4) Shri M. M. Desai	A Biography named ઝાંખી અને પ્રસાદી	April 1972
(5) Dr. M. G. Gupta	નિબન્ધ સંકલન	મહારાજા સયાજીરાવ વિશ્વવિદ્યાલય, વડોદરા
(6) Dr. D. S. Shukla	કામધેનુ	કાલ્યાયન પ્રકાશન ફ : ૪ વડોદરા
(7) Dr. B. D. Sharma	માલવી કા ઉદ્ભવ ઓર વિકાસ	રામનારાયણ બેનીપ્રસાદ, ઇલાહાબાદ

(c) Papers presented at All India level Seminars, Conferences etc.

Name	Name of the Conference & Seminar	Title of the paper presented
(1) Dr. R. N. Mehta and Dr. B. Suryawanshi	All India Numismatics Congress, Varanasi	Surface Coins from Nagara
(2) Dr. R. N. Mehta	Seminar on "Modernisation of Indological studies", Gujarat Vidyalay	Research and Modernization in Indology
(3) Dr. A. N. Jani	(i) All-India Oriental Conference, Ujjain October 1972	Interpretation of the Nardiverse of Bhavabhuti's Uttararamacaritam
	(ii) Seminar on Twentieth Century Sanskrit Literature, Bombay, December 1972	Contribution of Baroda to 20th Century Sanskrit Literature
(4) Dr. S. G. Kantawala	(i) All India Oriental Conference, Ujjain, October 1972.	The Flaming Pillar in the Puranas.
	(ii) Seminar on Twentieth Century Sanskrit Literature, Bombay, December 1972.	Loan words in Twentieth Century Sanskrit Literature.
(5) Professor S. C. Misra	Regional History Seminar, Baroda, 11th to 14th November, 1972	Communication Pattern in Medieval India.
(6) Dr. V. K. Chavda	(i) Indian Institute of Historical Studies, Calcutta, October 1972.	Shriman Nrisinhacharya and Shri Shreyas Sadhak Adhikari Varga.
	(ii) NCERT Meeting, March 1973.	Shri Narsinhbhai I. Patel.

Name	Name of the Conference & Seminar	Title of the paper presented
(7) Professor V. N. Kothari	Census Centenary Seminar, New Delhi, October, 1972.	Economic Factors underlying Urban Growth in India.
(8) Dr. M. M. Dadi	(i) Census Centenary Seminar, New Delhi, October 1972.	Variations in Labour Force Participation—An Inter-Regional Analysis.
	(ii) Twelfth Economic Conference, Kanpur, December 1972.	Wage share in Indian Manufacturing: Constancy Hypothesis and Industry-mix effects.
(10) Smt. M. N. Shah	Gujarat Economic Conference Rajkot, October, 1972.	Economics of Control on Automobile Industry.
(11) Dr. J. Birje-Patil	(i) Bombay University—USEFI Seminar on Modern Drama October 1972.	The poetry of 'Sylvia Plath'
	(ii) Gujarat University USEFI Seminar on Modern Drama, Ahmedabad, December 1972	The Theatre of the Absurd.
	(iii) Mysore University USEFI Seminar on comparative Fiction, Mysore, January 1973.	Conrad's 'Heart of Darkness' and Naipaul's 'In a Free State'.
(12) Shri B. N. Shah	Gujarat University USEFI Seminar on Modern American Drama, Ahmedabad, December-1972	Edward Albee

Name	Name of the Conference & Seminar	Title of the paper presented
(13) Dr. D. Srinivasan	J. Nehru University 25th October, 1972	Evaluation and the Foreign Language Teacher
(14) Shri D. D. Mahulkar	(i) Seminar on Speech and Hearing, Ali-garh Muslim University (ii) Seminar on Linguistics, Gujarat Vidyapeeth, Ahmedabad.	Algebraic Linguistics Lexicography
(15) Smt. B. V. Modi	do	Dialect study
(16) Dr. A. G. Javadekar	(i) Seminar to celebrate Birth Centenary of Prof. M. Hiriyanna at Mysore University 15th July, 1972. (ii) Seminar on Sankhya & Vedanta, Poona University 20th to 23rd November, 1972.	Prof. Hiriyanna's Philosophy of Values. Philo-
(17) Professor A. P. Rana	U.G.C. Summer School in Political Science, Gujarat University, Ahmedabad.	Indian Foreign Policy performance in the Nehru and Post-Nehru Periods
(18) Professor (Smt.) V. A. Janaki	Seminar on Regional Historiography, Baroda from 12th to 15th November, 1972.	The concept of the Region (A Geographical approach)

(d) Talks given at different Universities :

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(1) Dr. R. N. Mehta	ગુજરાત વિદ્યાપીઠ અમદાવાદ	ગુજરાતમાં થયેલાં પુરાવસ્તુકીય ઉત્ખનનો
(2) Professor A. N. Jani	Sheth M. N. Science & Smt. P. K. Kotawala Arts College, Patan	Contribution of Baroda Pandits to Sanskrit Literature 20th Century
(3) Professor V. N. Kothari	(i) M. P. Shah College of Com-	Economic Issues in Education Policy in India
(4) <i>Pages of man in literature</i>	<i>Modernism in Literature</i>	Economic Issues in Education Policy in India
(5) <i>Pages of man in literature</i>	<i>Modernism in Literature</i>	History in Schools
(6) Dr. S. H. at	<i>Pages of man in literature</i>	વિવેચનની વિકાસના
	<i>Pages of man in literature</i>	સાહિત્યના અભ્યાસમાં અનુક્રમિતનું મહત્વ
	<i>Pages of man in literature</i>	દેશી વાર્તા—આ યુગમાં
(ii) Vivekananda	Changing immanence of the College, Ah- Modern Research, (ii) the medabad Archaeology, (iii) the	
(iii) South Gujarat University, Surat	of the I.C.S.S.R. and (iv) of the Museum of Man. as member on (i) the Indian cal Research. (ii) Central Ad-	
(7) Dr. M. G. Gupta	(i) Gujarat Vichaeology, (iii) Indian Histor-peeth, Ahmission and (iv) Indian History bad	

Name	Name of the Conference & Seminar	Title of the paper presented
(13) Dr. D. Srinivasan	J. Nehru University 25th October, 1972	Evaluation and the Foreign Language Teacher
(14) Shri D. D. Mahulkar	(i) Seminar on Speech and Hearing, Aligarh Muslim University (ii) Seminar on Linguistics, Gujarat Vidyapeeth, Ahmedabad.	Algebraic Linguistics Lexicography
(15) Smt. B. V. Modi	do	Dialect study
(16) Dr. A. G. Javadekar	(i) Seminar to celebrate Birth Centenary of Prof. M. Hiriyanna at Mysore University 15th July, 1972. (ii) Seminar on Sankhya & Vedanta, Poona University 20th to 23rd November, 1972.	Prof. Hiriyanna's Philosophy of Values. Self in the Sankhya System.
(17) Professor A. P. Rana	U.G.C. Summer School in Political Science, Gujarat University, Ahmedabad.	Indian Foreign Policy performance in the Nehru and Post-Nehru Periods
(18) Professor (Smt.) V. A. Janaki	Seminar on Regional Historiography, Baroda from 12th to 15th November, 1972.	The concept of the Region (A Geographical approach)

(d) Talks given at different Universities :

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(1) Dr. R. N. Mehta	ગુજરાત વિદ્યાપીઠ અમદાવાદ	ગુજરાતમાં થયેલાં પુરાવસ્તુકીય ઉત્ખનનો
(2) Professor A. N. Jani	Sheth M. N. Science & Smt. P. K. Kotawala Arts College, Patan	Contribution of Baroda Pandits to Sanskrit Literature 20th Century
(3) Professor V. N. Kothari	(i) M. P. Shah College of Commerce, Surendranagar (ii) H. L. College of Commerce, Ahmedabad	Economic Issues in Education Policy in India Economic Issues in Education Policy in India
(4) Professor S. C. Misra	Viswa Bharati, Shantiniketan	History in Schools
(5) Dr. R. M. Patel	(i) Mahila College, Nadiad (ii) S. P. University, Vallabhvidyanagar	વિવેચનની વિભાવના સાહિત્યના અભ્યાસમાં અનુક્રમિતિનું મહત્વ
(6) Dr. S. H. Joshi	(i) Saraspur College, Ahmedabad (ii) Vivekananda College, Ahmedabad (iii) South Gujarat University, Surat	દ્રુષ્ટી વાર્તા—આ યુગમાં Changing images of man in Modern Literature Modernism in Literature
(7) Dr. M. G. Gupta	(i) Gujarat Vidyapeeth, Ahmedabad	रामचरित मानस में राज्य व्यवस्था का आदर्श

Name of the Teacher 1	University/Institution 2	Subject of the Lecture 3
(8) Dr. D. S. Shukla	(ii) Kanpur University, Kanpur	मध्यकालीन काव्य—नयी दृष्टि
	(i) S. P. University, Vallabhvidyanagar	कवितावली: एक परिदृष्टि
	(ii) Tolani College of Arts & Science, Adipur—Gandhi Dham	निराला की दृष्टि में भारतीय संस्कृति
(9) Prof. J. Birje Patil	Nagpur University December, 1972	(i) Shakespeare and Marlowe
		(ii) The Theatre of the Absurd and Ionesco's Rhinoceros
		(iii) Indo-Anglian Fiction on Marlowe's Dr. Faustus
	Vidarbha Mahavidyalaya, Amaravati, December, 1972	(i) Marlowe's Dr. Faustus
	USIS Seminar, Bombay, February, 1973	(ii) The Glass Menagerie by Tennessee Williams
(10) Professor A. P. Rana	Sardar Patel University, Vallabh Vidyanagar	A Nuclear Policy for India
(11) Dr. A. G. Javadekar	(i) H. K. Arts College, Ahmedabad	Some Reflections on Human Knowledge
(17) Professor Rana	(ii) Delhi University	The Problem of Perception
	(iii) Poona University	Moral Philosophy in the Gita
(18) Professor (Smt.) V. A. Janaki	Ahmedabad University	Creating reading habits in the Library
	Seminars and other Programmes:	
	from 1st to 30th November, 1973	ent, Gujarat Itihas Parishad, Porbandar, 30th November, 1973.

- (2) Prof. V. N. Kothari Session Chairman, Seminar on "Regional Economic Planning", Organized by the Sardar Patel Institute of Social and Economic Research, Ahmedabad, March 1973.
- (3) Dr. K. N. Reddy Rapporteur and President, Session on "Centre-State Financial Relations" at the Indian Economic Conference held in December 1972 at Bodh Gaya. He was also invited by Finance Commission, Government of India, New Delhi to join as Joint Director, since January 1973.
- (4) Shri N. M. Pandya Session Rapporteur, Seminar on "Economics of Self-Sufficiency", Gujarat Vidyapeeth, Ahmadabad January 1973.
- (5) Shri P. R. Joshi } Attended the British Council Seminar on English Literature, Hyderabad, 11th to 19th January, 1973.
- (6) Shri H. S. Shelat }
- (7) Smt. S. Puri }
- (8) Prof. R. N. Mehta Director and Expert, Summer Institute in English, Baroda, May-June, 1972
- (9) Shri R. M. Pancholi }
- (10) Shri C. K. S. hadri }
- (11) Shri B. S. Kamble }
- (12) Shri S. K. Rana }
- (13) Shri H. A. Ismail }
- (14) Shri U. M. Nanavati }
- (15) Prof. J. D. Birje-Patil Faculty Member, USIS Seminar on Saul Bellow, Bombay, February 1973.
- (16) Smt. H. K. Chavan }
- (17) Kum. S. G. Palkar }
- (18) Kum. G. Miranda }
- (19) Dr. S. C. Misra Director, Regional History Seminar, Baroda during 11th to 14th November, 1972. He attended the meetings of (i) the Research Project Committee of the Indian Council of Historical Research, (ii) the Central Advisory Board of Archaeology, (iii) the Committee on Muslims of the I.C.S.S.R. and (iv) of the Planning Committee of the Museum of Man. He is also appointed as member on (i) the Indian Council of Historical Research. (ii) Central Advisory Board of Archaeology, (iii) Indian Historical Records Commission and (iv) Indian History Congress.

- (20) Prof. K. C. Panchanadikar Participated (i) Seminar on Regional Historiography, Department of History, M. S. University, Baroda, 12-14 November, 1972, (ii) Seminar on Japanese Top Management Philosophy, Delhi Management Association, New Delhi, 20-21 December 1972, (iii) Session on Urban Tensions, 3rd Conference of the Gujarat Rajya-Shastra Mandal, Political Science Department (M.S.U.), 24-25 March, 1973, and (iv) Meeting with the Review Committee on I.C.S.S.R. Standing Committee on Sociology and Social Work including Criminology, on 1st March 1973. He was invited to be (i) a member and Trustee of the first Governing Board of the Council of Economic Development and Understanding, Baroda.
- (21) Dr. (Smt.) J. Panchanadikar Deputed to a three-week course on Fortran Programming for University Teachers, Faculty of Technology and Engineering, M. S. University, Baroda, 8-31 August, 1972. Participated in the Seminar on Regional Historiography, 12-15 November, 1972, Department of History M. S. University, Baroda. Participated in the Seminar on Removal of Untouchability in Gujarat: Efforts and Achievement, Department of Sociology, School of Social Sciences, Gujarat University, Ahmedabad.
- (22) Kumari Bharati S. Desai Participated in the Seminar on Regional Historiography, 12-15 November, 1972, Department of History, M. S. University, Baroda. Delegate to the Eleventh All India Sociological Conference, on 28-30 April, 1972 at Ahmedabad
- (23) Shri P. J. Patel Member of the Working Group of ten sociologists to prepare Trend Reports during 1968-72, for the I.C.S.S.R. Attended meetings of the Working Group at New Delhi at the ICSSR Office and assigned to prepare Trend Reports on Industrial Sociology, and on Economic Sociology. Delegate at the Eleventh All India Sociological Conference, on 28-30 April 1972 at Ahmedabad. Rapporteur to the panel III on Changing Patterns of Caste, and reported at the concluding session, (ii) the Seminar on Concept,

- Methodology and Areas of Peace Research in India, 7-9 August, 1972, Gujarat Vidyapeeth, Ahmedabad. Rapporteur, concluding session and (iii) the Third Conference of the Gujarat Rajya Shastra Mandal, 23-24 March 1973, Political Science Department, M. S. University.
- (24) Shri S. D. Joshi Deputed to a four-week summer course on Research Methodology, organized by the Department of Sociology, School of Social Sciences, Gujarat University, Ahmedabad during May, 1972.
- (25) Dr. S. H. Joshi Awarded 'Ranajitram Suvarna Chandrak' for his contribution to Criticism and short stories in Gujarati.
- (f) Research work completed:
- (1) Prof. A. N. Jani (i) Saptasati (edited).
(ii) Kalika Purana (Text and Gujarati Translation).
- (2) Prof. A. P. Rana A framework for the analysis of India's foreign policy strategy in the Nehru period.
- (g) Research work in Progress:
- (1) Prof. A. N. Jani A Critical Edition of Vidyadhari.
- (2) Dr. S. G. Kantawala Co-relative Study in Vedic and Puranic Literature.
- (3) Dr. S. W. Ashraf Preparation of a Critical Edition of Maktubat-i-Asharafia.
- (4) Smt. R. Vanikar Nature in Faulkner.
- (5) Kum. P. M. Parikh Life and works of Kavi Vasto.
- (6) Shri D. D Mahulkar On ambiguity in natural languages—a mathematical resolution.
- (7) Professor A. G. Javadekar Dharma Shastra of the Bhagwadgita.

Faculty Activities

(1) The Shakespeare Society staged two plays in December, 1972: 'Raja Vishal' (Macbeth: Indian Version) and Six Characters in Search of an Author. Four performances of the first and three of the second play were mounted. These plays were produced and directed by Professor J. O. Barnhill, Visiting Tagore Chair Professor in the University during August-December, 1972.

(2) The Society of Archaeology and Ancient Indian Culture carried on its usual activities during the year.

(3) The Department of Economics has under its auspices "The Economic Society" which carried on its usual activities during the course of the year.

(4) The Gujarati Department organized a programme "Meghani Shatabadi Mahotsava" and arranged lectures on the life and works of Zaverchand Meghani.

6. Faculty Union Activities

The Faculty Students' Association conducted various activities during the year 1972-73. After the election, the class representatives were selected as secretaries for different activities in the Faculty. During the year, competitive debates in different languages were organised and the best speakers were awarded cash prizes. A Fun Fair was organised in February, 1973 and the best stalls were given prizes. The students of the Faculty participated in the University Week programmes organised by University Students' Union, and secured five prizes.

7. Museum, Laboratory, Studios, Workshops, etc.

Sr. No.	Item	Cost of Equipment as on 1-4-1972 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 31-3-1973 Rs.
(1)	Museum	2,42,636-00	—	15,010-00	2,57,646-00
(2)	Studio	15,320-40	—	—	15,320-40
(3)	Drawing Equipment	1,806-75	—	—	1,806-75
(4)	Deadstock	67,637-28	—	98-00	67,735-28
(5)	Excavation Equipment	1,622-05	—	325-00	1,947-05
Total :		3,29,022-48	—	15,433-00	3,44,455-48

8. Distinguished Visitors

- (1) Dr. Nurul Hassan
Minister for Education,
Government of India
- (2) Professor J. O. Barnhill
Head, Department of Drama,
Brown University, U.S.A.
- (3) Professor I. S. Gulati
Member, Finance Commission,
Government of India

9-11-1972

August 1972 to
December 1972

20-10-1972

- (4) Mr. C. John Fliginer
Staff Officer for Foreign Programmes
Statistical Reporting Service
U.S.B.A., Washington
24-10-1972
to
26-10-1972
- (5) Professor A. M. Chaudhary
Professor of History,
Dacca University,
Bangladesh
6-12-1972
- (6) Miss Maria Renee Cura
Professor of Geography,
University of Brrenos
15-12-1972
to
22-12-1972
- (7) Professor A. K. Warder
Professor of Sanskrit
Toronto University
6-1-1973
- (8) Dr. B. D. Jordan
Australian National Univesity
Canberra
7-1-1973
8-1-1973
- (9) Miss Helen Meller
Lecturer in Economic & Social History,
Nottingham University, U.K.
18-1-1973
- (10) Dr. Hans Knop
Pro-Rector,
University of Economics Sciences
Berlin G.D.R.
21-2-1973
to
23-2-1973
- (11) Professor Vishwanath Pal Misra
Professor of Navin Chair
Vikram University
5-3-1973
- (12) Professor N. K. Devaraja
Director, Centre of Advanced
Study in Philosophy,
Banaras Hindu University.
7-3-1973
8-3-1973
- (13) Professor P. R. Brahmananda
Professor of Monetary Economics,
Bombay University.
12-3-1973
13-3-1973

CHAPTER IX—FACULTY OF SCIENCE

1. Courses of Studies

There is provision for teaching the following courses:

- | | |
|-----------------------------|--|
| (1) B.Sc., M.Sc. and Ph.D. | Botany, Chemistry, Geography, Zoology, 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 | 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. It 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.

2. Number of Students

The number of men and women students on roll in the various classes in the year 1972-73 was as under:

Class	Boys	Girls	Total
(1) Diploma in Laboratory Techniques			
(a) First Year	9	1	10
(b) Second Year	6	2	8
Total	15	3	18
(2) Pre-Medical	123	19	142
(3) F.Y.B.Sc.	224	113	337
(4) S.Y.B.Sc.	236	115	351
(5) T.Y.B.Sc.	251	124	375
Total	834	371	1205

Class	Boys	Girls	Total
(6) M.Sc. (Previous)	148	46	194
(7) M.Sc. (Final)	104	31	135
(8) M.Sc. (Applied Geology)	3	—	3
Total	255	77	332
(9) Ph.D.	48	12	60
Grand Total	1152	463	1615

3. Staff

(a) Present Position:

The staff of the Faculty consisted of 13 Professors (four of whom are in the senior scale), 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:

- (1) Shri A. M. Parikh as Temporary Lecturer in Statistics.

(c) Teachers upgraded:

The following Assistant Lecturers were upgraded as Lecturers in the Departments as mentioned below:

Botany:

Sarvashri P. S. Bhagwanani, N. L. Dave, R. G. Vaidya, G. B. Gaekwad, S. P. Anklesaria, S. M. Bagde, Y. K. Sane, and (Kum.) M. K. Kshirsagar.

Chemistry:

Sarvashri G. N. Naik, R. S. Shah, R. H. Mehta, M. N. Gandhi, M. J. Mehta, N. K. Chudgar, R. N. Kapadia, N. V. Mani, A. P. Kuriakose and (Smt.) K. B. Nair.

Geography:

Shri J. K. Parmar.

Geology:

Sarvashri A. N. Shah and S. G. Patel.

Mathematics:

Sarvashri B. M. Pandya and G. B. Patel.

Physics:

Sarvashri R. C. Shah, B. N. Parikh, S. N. Date, C. T. Paradkar, M. C. Vyas, P. W. Deshpande, A. L. Redey, N. I. Kekan, (Smt.) S. C. Desai and (Smt.) P. P. Kulkarni.

Statistics:

Sarvashri B. R. Desai and N. B. Patel.

Zoology:

Sarvashri A. V. Ramchandran and P. K. Hiradhar.

(d) Teachers who left the University:

- | | | |
|-------------------------|--------------------------|-----------------------|
| (1) Shri S. B. Desai | Lecturer in Microbiology | For better prospects. |
| (2) Shri R. C. Patel | Lecturer in Mathematics | On retirement. |
| (3) Dr. K. K. Sakariah | Lecturer in Biochemistry | For better prospects. |
| (4) Dr. A. P. Kuriakose | Lecturer in Chemistry | For better prospects. |

4. Professional Growth of the Staff

(a) Publication of Articles/Papers:

Sr.No.	Author	Title	Journal
(1)	R. Rajalakshmi and C. V. Ramakrishnan	Nutrition and brain function	World Review of Nutrition Diet 15, 35-85 (1972).
(2)	S. S. Sail and D. G. Shah	Effect of dietary supplementation with high protein biscuits on the nutritional status of pre-school children	Indian Journal of Pediat. 39, 185 (1972).
(3)	R. Rajalakshmi, S. S. Sail, D. G. Shah and S. K. Ambady	The effect of supplements varying in carotene and calcium content on physical, biochemical and skeletal status of pre-school children	Brit. J. Nutr. 30, 77-86 (1973).
(4)	M. K. Kshirsagar and A. R. Mehta	Survey of Ferns in Gujarat State (India) for presence of anti-bacterial substances	Planta Medica (4), (Germany) 1972.
(5)	V. P. Fadia and A. R. Mehta	Tissue Culture Studies in Cucurbits II. Effect of kinetin alone and in combination with auxin and gibberellic acid on growth of cucumis callus cultures	M. S. University Journal, Vol. 21, No. 2, 1972.
(6)	D. N. Thaker, S. D. Sabnis and S. J. Bedi	A contribution to the flora and vegetation of Kwant Range Gujarat State, India	B.B.S.I., Vol. 12, 1970.

Sr.No.	Author	Title	Journal
(7)	R. P. Bhatt, S. D. Sabnis and S. J. Bedi	Notes on the genus spargula Linn. from Gujarat State	B.B.S.I., Vol. 12, 1970.
(8)	S. D. Sabnis and S. J. Bedi	Ceropegia odorata Hook f.	Kew Bull., 24 (1) 57-58, 1971.
(9)	S. J. Bedi, S. D. Sabnis and D. N. Thaker	Additions to the Flora of Pavagadh Hill, Gujarat State	Indian Forester, 98 (11), 667-668, 1972.
(10)	S. D. Sabnis and S. J. Bedi	The Genus Fuirena (Cyperaceae) in Gujarat	J.B.N.H.S. 68 (3), 857-858, 1972.
(11)	S. N. Padate	Heliotropium curassavicum Linn. New Record for erstwhile Bombay State	M. S. University Journal, Vol. 198, 20 (3), 1970-71.
(12)	S. D. Sabnis and R. P. Bhatt	A new species of Solanum Linn. Gujarat, India	B.B.S.I. Vol. XII, No. 1-4, 1970.
(13)	Prathapasenan G. and Ramananda Rao G.	Localization of Isocitrate lyase in germinating seeds of cotton	Biochem. 128 (1) 54, 1972.
(14)	Kamalavalli D., Prathapasenan G., and G. Ramananda Rao	Metabolic changes during germination of cotton and sorghum and the role of GA ₃ .	Biochem. 128 (1) 55, 1972.
(15)	S. P. Prajapati and Suresh Sethna	Studies on 4, 4'-Dihydroxy diphenyl methane	Journal of Ind. Chem. Soc., 49, 391, 1972.
(16)	A P. Kuriakose and Suresh Sethna	Synthesis of α - and γ -pyrone derivatives from 2, 6-dihydroxy naphthalene	Journal of Ind. Chem. Soc., 49, 1155, 1972.
(17)	K. M. Jainamma and Suresh Sethna	Studies on 3(4'-hydroxy phenyl) coumarin	Journal of Inst. of Chemists, 44, 123, 1972.
(18)	A. P. Kuriakose and Suresh Sethna	Studies in furan derivatives Pt. IV. Synthesis of 1, 7-dimethyl naphtha (2, 1-b; 7, 6-b') difuran	Journal of Ind. Chem. Soc., 49, 1197, 1972.
(19)	R. J. Chudgar and K. N. Trivedi	Studies in the synthesis of quinoline derivatives. Pt. III Synthesis of furoquinolines	Journal of Ind. Chem. Soc., 49, 514, 1972.

Sr.No.	Author	Title	Journal
(20)	N. H. Pardhanani and K. N. Trivedi	Studies in the synthesis of coumarins α -pyrones and Furocoumarins. Pt. XIV. Synthesis of proralene from 2-bromo resorcinol	Australian Jour. of Chem. 25, 1537, 1972.
(21)	N. H. Pardhanani and K. N. Trivedi	Studies in the synthesis of Furochromones Pt. I. Synthesis of 5-oxo-5H-Furo (3, 2-g) Benzopyran derivatives	Journal of Chem. Soc., Ind. 49, 283, 1972.
(22)	N. H. Pardhanani and K. N. Trivedi	Studies in the synthesis of coumarino α -pyrones and Furocoumarins Pt. XV. Kostanecki-Robinson acylation of o-hydroxyacyl coumarins	Journal of Chem. Soc., Ind. 49, 599, 1972.
(23)	N.H. Pardhanani and K. N. Trivedi	Studies in the synthesis Furochromones Pt. II. Synthesis of Furoisoflavones	Journal of Chem. Soc., Ind. 49, 1035, 1972.
(24)	Y. A. Shaikh and K. N. Trivedi	Studies in the synthesis of Furocoumarins Pt. XVI. Synthesis 4-hydroxy-4, 8-dimethyl poraline derivatives	Journal of Chem. Soc., Ind. 49, 1577, 1972.
(25)	Y. A. Shaikh and K. N. Trivedi	Studies in the synthesis of Furochromones Pt. III. Kostanecki-Robinson acylation of o-hydroxyacyl benzofurans	Journal of Chem. Soc., Ind. 49, 713, 1972.
(26)	D. O. Shah and K. N. Trivedi	Synthesis of B-(2-hydroxy-4-quinolyl)-alanine	Current Science 41, 876, 1972.
(27)	M. V. Chidambaram and P. K. Bhattacharya	Studies in some Amine-Amino acid mixed ligand systems Pt. III	Journal Inst. of Chemists 44(5), 144, 1972.
(28)	B.R.Panchal and P. K. Bhattacharya	Studies in metal exchange in some π bonded complexes Pt. II	Acta. Chim. Hungary 74, 399, 1972.
(29)	I. P. Mavani, C. R. Jejurkar and P. K. Bhattacharya	Solution study of mixed ligand complexes of Cu^{2+} , Ni^{2+} , Zn^{2+} and Cd^{2+}	Indian Journal of Chemistry, 10, 949, 1972.
(30)	I. P. Mavani, C. R. Jejurkar and P. K. Bhattacharya	Study of ternary complexes in solution	Journal of Chem. Soc. Ind. 49, 470, 1972.

Sr.No.	Author	Title	Journal
(31)	D. C. Patel and P. K. Bhattacharya	Reactions Tertiary bases with bis-propylene diamine ni (") chelates	Journal of Ind. Chem. Soc., 49, 840, 1972.
(32)	I. P. Mavani and P. K. Bhattacharya	Study of Zn (") and Cu (") complexes of polyhydroxy aromatic ligands	Journal of Inst. of Chem. 44(3), 91, 1972.
(33)	C. R. Jejurkar, I. P. Mavani and P. K. Bhattacharya	Study of metric complexes with polyhydroxy aromatic ligands and Vo with salicylic and thiosalicylic acid systems	Ind. Jour. of Chem. 12, 1190, 1972.
(34)	B. R. Panchal and P. K. Bhattacharya	Potentiometric study of Be^{2+} , Xn^{2+} , and Vo^{2+} with salicylic and thiosalicylic acid systems	Ind. Jour. of Chem. 10, 857, 1972.
(35)	I. P. Mavani, C. R. Jejurkar and P. K. Bhattacharya	Studies in Heterochelates, Pt. V.	Ind. Jour. of Chem. 9, 948, 1972.
(36)	B. R. Panchal, M. V. Reddy and P. K. Bhattacharya	Studies in metal exchange in some π bonded complex Pt. I	Ind. Jour. of Chem. 10, 218, 1972
(37)	B. R. Panchal and P. K. Bhattacharya	Studies in some Heterochelates Pt. I	Journal of Inorg. and Nucl. Chem. 34, 3932, 1972.
(38)	D. C. Patel and P. K. Bhattacharya	Studies in some Ni (") and Cu (") complexes	Journal of Ind. Chem. Soc. 49, 1942, 1972.
(39)	S. L. Bafna, D. J. Patel and J. D. Mehta	Separation of ascorbic acid and 2-Keto,-2- gutonic acid	Journal of Pharm. Science, 61(8), 1333, 1972.
(40)	J. S. Dave, George Kurian, A. P. Prajapati and R. A. Vora	Mesomorphic behaviour of Shciff's base compound in a homologous series comprising a naphthalene nucleus	Ind. Jour. Chem. 10, 754, 1972.
(41)	J. S. Dave and R. A. Vora	Mesomorphic behaviour of cholestaryls Esters III substituted benzoates of cholesterol	Ind. Jour. Chem. 11, 19, 1973.

Sr.No.	Author	Title	Journal
(42)	J. S. Dave and George Kurian	Liquid crystalline properties of a homologous series of naphthylidine Schiff's base compounds	Current Science 42, 200, 1973.
(43)	J. S. Dave, George Kurian and B. C. Joshi	Liquid crystalline behaviour of some naphthalene derivatives	Current Science, 42, 349, 1973.
(44)	Y. A. Shaikh and K. N. Trivedi	Studies in the synthesis of Furo-coumarine Pt. XVIII synthesis of 2-methyl-9-one-9H-Furo (2, 3-c) benzopyran derivative	Journal of Ind. Chem. Soc. 50, 41, 1973.
(45)	S. J. Desai, M. P. Patel and S. S. Merh	A note on the Occurrence of Charnokitic rocks in the Balaram area, N.G.	Indian Science Congress, Chandigarh, January, 1973.
(46)	N. M. Vashi and S. K. Laghate	Structural and metamorphic studies of rocks to the west of Peora in Kumaon Himalayas	Himalayan Geology Vol. 2, 1972, Wadia Institute of Himalayan Geology, Delhi-7.
(47)	N. M. Vashi	Geology of the area around Bhagwali Pokhar (Dist. Almora, U.P.)	"Geological Report" Wadia Institute of Himalayan Geology, Delhi, February, 1973.
(48)	D. R. Gadekar	Groundwater Resources of Maharashtra	Bulletin of Marathi Vignan Parishad, Vol. 5, No. 7, p. 27.
(49)	D. R. Gadekar	Deposits of semi-solid petroleum and their significance for petroleum resources of India	Mahashtriya Vaidyanik, Vol. 1, No. 6, p. 233-236.
(50)	D. R. Gadekar	Some aspects of Environmental pollution in mineral resources with special reference to Gujarat	Symposium on Environmental Studies, M. S. University, January, 1973.
(51)	R. K. Patel	On very strong Euler Summability of orthogonal series	Journal of the M. S. University of Baroda, Baroda, Vol. XXI, No. 3 (Science) 1972.

Sr.No.	Author	Title	Journal
(52)	M. B. Asnani, H. S. Chhatpar, M. H. Kadri, A. K. Mattoo and V. V. Modi	Microbial spoilage of mangoes	Journal Food Sci. and Tech. 8, 208, 1971.
(53)	Anjana Shroff, V. V. Modi and J. L. Raina	Regulation of poly-OH-butyrate metabolism in R. japonicum	Rhizobium news letter, 17, 29, 1972.
(54)	A. N. Kachhy, A. M. Madia, V. V. Modi and Nirupa Parekh	Octadecanol metabolism in Candida tropicalis	Indian Journal Expt. Biol. 10, 245, 1972.
(55)	H. S. Chhatpar, G. Ghai, A. K. Mattoo and V. V. Modi	Some problems pertaining to storage and ripening in mango fruit	Acta Horticulture Technical com. s. H. S. Netherlands 24, 243, 1972.
(56)	J. L. Raina and V. V. Modi	Deoxyribonucleate binding and transformation in R. japonicum	Journal Expt. Biol. 19, 385, 1972.
(57)	Smt. U. Mehta, A. K. Mattoo and V. V. Modi	Ribitol and flavinogenesis in Eremothecium ashbyii	Biochem. J. 130, 159, 1972.
(58)	V. P. Bhatt and G. R. Pandya	Dislocation studies in Bismuth-Antimony alloy single crystals by each pit technique	Journal of Physics (Solid State Physics) Vol. 6, p. 36, 1973.
(59)	V. P. Bhatt, G. R. Pandya and R. D. Rao	Origin of the Transverse striations in Bi-Sb single crystals	Journal of Crystal Growth Vol. 16, No. 3, 1972.
(60)	V. P. Bhatt and G. R. Pandya	Transverse striations and Growth Features in Bi-Sb single crystals	Symposium on Solid State Materials, 1973, National Physical Laboratory, New Delhi (Abstract No. CG 6).
(61)	B. S. Shah	A note on the plastic deformation of Bismuth single crystals	Curr. Sci. 41, 632, 1972.
(62)	B. S. Shah	Dislocation Pile ups due to polygonization in Bismuth	Curr. Sci. 41, 674, 1972.

Sr.No.	Author	Title	Journal
(63)	N. Vaishampayan	Microdiscs on selenium single crystals	Journal Pure and Applied Physics, 10, 2, 171, 1972.
(64)	B. S. Shah	Anomalous Etch pits in Bismuth	Curr. Sci. 42, 275, 1973.
(65)	M. M. Patel and V. B. Gohil	On the modified form of Ritrur's Potential function	Nature for Schang. 27a, p. 781-83, 1972.
(66)	M. M. Patel and V. B. Gohil	Potential energy curves of alkali halide diatomic molecules	Zeit Nature for Chang. 27a, p. 1227, 1972.
(67)	M. M. Patel and V. B. Gohil	Linear expolation of vibrational energy level of ionic molecules	Journal Pure and Appl. Physics 10, 476-77, 1972.
(68)	M. M. Patel and V. B. Gohil	On the V-S-3 potential energy function for alkali halide diatomic molecule	Indian Journal Pure and Applied Physics, Vol. 10, No. 1, pp. 60-61.
(69)	H. S. Desai and M. P. Maru	Scattering of slow electron by polar molecule	Indian Journal Pure and Applied Physics, Vol. 10, No. 19, pp. 750-51.
(70)	S. G. Shah, M. M. Patel and A. B. Darji	Band system of Sr. I molecule in the region 3350-3560	Journal Physics B. (Lond.), Vol. 6, 1973.
(71)	S. G. Shah, M. M. Patel and A. B. Darji	New band system of molecular BaI in the region 4300-4500 A°.	Journal Physics B. Vol. 5, September, 1972.
(72)	M. Chakravarty, M. M. Patel and K. C. Abraham	On the emission spectrum of molecular SbF	Journal Physics B. Vol. 6, p. 773.
(73)	Dr. A. G. Phatak and D. K. Shah	A simplified form of the ASN for a curtailed sampling plan	Technometrics November, 1972.
(74)	Narayan Das and D. N. Pandey	Baroda Reporter	Annual Publication Demographic Research Centre, Baroda.

Sr.No.	Author	Title	Journal
(75)	M. M. Gandotra	Population Problem and the need for Family Planning in Industries	Paper presented in a Family Planning Workshop organised jointly by the Municipal Corporation F. P. Bureau, Baroda and the Federation of Gujarat Mills and Industries, March 27, 1973.
(76)	M. M. Gandotra	Demographic changes among Acceptors of Family Planning	The Journal of Family Welfare, Vol. XIX, No. 2, December 1972, Bombay.
(77)	Narayan Das	Factors related to knowledge, Family size preference and practice of F. P. in India	The Journal of Family Welfare, Vol. XIX, No 1, September 1972, Bombay.
(78)	Naik R. M. and Naik Shashi	The sublingual salivary glands of the house swift, Apus affinis	'PAVO,' 7: 1 & 2, pp. 1-18, 1969.
(79)	Naik R. M. and Shivanarayan N.	Moult of the primary feathers in the houseswift, Apus affinis	'PAVO,' 7: 1 & 2, pp. 19-42, 1969
(80)	Naik R. M. and Shivanarayan N.	The tail moult of the houseswift, Apus affinis	'PAVO,' 7: 1 & 2, pp. 43-56, 1969
(81)	Naik N. L. and Naik R. M.	On the plumages and moults of some Indian starlings	'PAVO' 7: 1 & 2, pp 57-73, 1969.
(82)	Nair K.S.S. and Desai A. K.	Some new findings on factors inducing diapause in Trogoderma granarium everts (coleoptera dermeslidae)	Journal Stored Prod. Res. 8: pp. 27-54, 1972.
(83)	Shah R. V. and Chakko T. V.	Histochemical localization of nucleic acids in the normal and regenerating tail of the house lizard Hemidactylus flaviviridis	Journal Anim. Morphol. Physiol., 19: 1, pp. 28-33, 1972.

Sr.No.	Author	Title	Journal
(84)	Asnani M. V., Pilo B. and Shah R. V.	Wound healing and repair in the pigeon liver, 2. Histochemical studies on fat glycogen and enzymes like lipase, esterase, belahydroxy butyrate dehydrogenase, lactate dehydrogenase and succinate dehydrogenase during the process	Journal Anim. Morphol. Physiol., 19: 1, pp. 34-42, 1972.
(85)	Shah R. V. and Ramchandran A. V.	Aldolase activity in the normal and regenerating tail of the scincid lizard, Mabuya carinata	Journal Anim. Morphol. Physiol., 19: 1, p. 43-49, 1972.
(86)	Andrews M. I. and Naik R. M.	The Biology of the jungle babbler	'PAVO,' 8: 1 & 2, pp. 1-34, 1970.
(87)	Razack Abdur and Naik R. M.	Studies on the houseswift, Apus affinis (J. E. Gray) 10, Notes on certain physical features	'PAVO,' 8: 1 & 2, pp. 75-80, 1970.
(88)	B. Pilo, M. V. Asnani and R. V. Shah	Studies on wound healing and repairs in pigeon liner 3. Histochemical studies on the acid and alkaline phosphatases during the process	Journal Anim. Morphol. Physiol., 19: 205-212, 1972.

(b) Publication of Books :

Name of the Author	Title
(1) Professor (Smt.) V. A. Janaki	Kandla, the North Western, Gateway of India, Research Paper Series 6 of the Geography Department
(2) Dr. M. M. Patel	(i) Atomic Spectroscopy (in Gujarati) (under University Granth Nirman Board) (ii) Molecular Spectroscopy (in Gujarati) (under University Granth Nirman Board) (iii) Optics (in Gujarati) (Gujarat University Publication)

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

Sr.No.	Name	Seminar/Conference	Title
(1)	Dr. S. K. Srivastava	Meeting Society of Biological Chemists of India Pantnagar—20th, 21st and 22nd November, 1972	Studies on ornithine carbamyl transferase—a regulatory enzyme in Rumex acetosa tumour tissue.
(2)	Shri A. B. Kulkarani	Meeting Society of Biological Chemists of India Pantnagar—20th, 21st and 22nd November, 1972	Effect of pre-weaning and post-weaning under nutrition and protein deficiency on acetylcline metabolism in rat brain.
(3)	(Kum.) S. D. Telang	Meeting Society of Biological Chemists of India Pantnagar—20th, 21st and 22nd November, 1972	Effects of under nutrition and protein deficiency on glutamate dehydroglutamate decarboxylase in rat brain.
(4)	Shri H. L. Nakashi	Meeting Sociology of Biological Chemists of India Pantnagar—20th, 21st and 22nd November, 1972	Effects of pre-weaning and post-weaning under nutrition and protein deficiency on brain lipids in rats.
(5)	Dr. L. J. Parekh	Seminar on recent trends in Biological Sciences Udaipur —4th, 5th and 6th December, 1972	Studies on citrus fruit tissue cellus.
(6)	Shri D. G. Shah	Seminar on recent trends in Biological Sciences Udaipur —4th, 5th and 6th December, 1972	Effects of supplements varying in carotene and calcium content on the physical and skeletal status of pre-school children.
(7)	Dr. A. R. Mehta	All India Seminar on Current trends in Plant Science, Delhi University, Delhi, 3-9 October, 1972	Growth of Free Cell on Agar Plates.
(8)	(Kum.) M. K. Kshirsagar and Dr. A. R. Mehta	60th Indian Science Congress, Chandigarh, 3-9 January, 1973	Antibacterial activity in Ferns.
(9)	Dr. V. P. Fadia and Dr. A. R. Mehta	60th Indian Science Congress, Chandigarh, 3-9 January, 1973	Effect of auxins, sugar and nitrogen sources on growth of Cucumis Callus Cultures.

Sr.No.	Name	Seminar/Conference	Title
(10)	Dr. A. R. Mehta	Symposium at the Golden Jubilee Session of Indian Science Congress, Chandigarh, 6th January, 1973	Plant Suspension Cultures.
(11)	Dr. A. R. Mehta	All India Seminar on Molecular Cytology and Cytogenetics, School of Sciences, Gujarat University, Ahmedabad, 3-5 February, 1973	Nuclear instability in Plant Cell Cultures.
(12)	Dr. A. R. Mehta	Symposium on "Environmental Studies", 23-24 January, 1972, M. S. University of Baroda	Pesticidal Pollution.
(13)	Dr. S. J. Bedi	Symposium on "Environmental Studies", 23-24 January, 1972, M. S. University of Baroda	Biogeochemical Cycle.
(14)	Dr. R. P. Bhatt and Dr. S. D. Sabnis	Symposium on "Environmental Studies", 23-24 January, 1972, M. S. University of Baroda	Forest and Man.
(15)	Prof. (Smt.) V. A. Janaki	Seminar on Regional Historiography, Department of History, Faculty of Arts, M. S. University of Baroda, from 12th to 15th November, 1972.	The Concept of the Region (A Geographical approach).
(16)	Shri C. C. Shah	9th Annual Conference of the Gujarat Ganit Mandal, Modasa on 29th, 30th October, 1972	Operations on the Real Number System.
(17)	Kum. P. H. Doctor	Symposium on Legume inoculants Science and Technology, 23-25 October, 1972, New Delhi	Mapping of biochemical markers by transformation and transduction R. japonicum.
(18)	Kum. P. H. Doctor	Symposium on Legume inoculants Science and Technology. 23-25 October, 1972, New Delhi	Transformation induced phage multiplication and some properties of isolated phage in R. japonicum.

Sr.No.	Name	Seminar/Conference	Title
(19)	Kum. D. C. Patel	Symposium on Legume inoculants Science and Technology. 23-25 October, 1972, New Delhi	Aspartate dehydrogenase. An amino acid synthesising system in R. japonicum.
(20)	Kum. A. R. Shroff	Symposium on Legume inoculants Science and Technology. 23-25 October, 1972, New Delhi	Hydroxybutyrate dehydrogenase dependent accumulation of polyhydroxybutyrate in Rhizobium japonicum.
(21)	Shri H. S. Chhatpar	41st Annual Meeting of Society of Biological Chemists of India at Pantnagar, 20-22 November, 1972	Ascorbic acid and ripening of mango fruit.
(22)	Shri H. G. Desai	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Studies on carotenogenesis in Blakeslee trispora.
(23)	Shri A. N. Kachhy	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Naphthalene metabolism in Pseudomonas aeruginosa
(24)	Shri J. D. Desai	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Regulation of glucose transport in biotin deficient Aspergillus nidulans.
(25)	Shri A. M. Madia	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Enzymic constitution and Flavonogenesis in Fremontia ashbyii.
(26)	Kum. P. A. Peris	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Genetic transformation in Rhizobium.
(27)	Kum. Z. M. Shah	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972	Production of amino-purines and their nucleotides by Neurospora crassa.

Sr.No.	Name	Seminar/Conference	Title
(28)	Shri V. P. Patel	Thirteenth Annual Conference of Microbiologists at Ludhiana, 28-29 December, 1972.	Studies on alkaloid production by <i>Aspergillus fumigatus</i> .
(29)	Kum. P. H. Doctor	Seminar on molecular cytology and cytogenetics at Ahmedabad during 3-5 February, 1973	Mapping of biochemical markers in a transformable <i>Rhizobium japonicum</i> .
(30)	Kum. P. A. Peris	Symposium on control mechanisms in cellular process at B.A.R.C. Bombay, 1-3 February, 1973	Genetic transformation in <i>Rhizobium</i> .
(31)	Dr. V. P. Bhatt	Symposium on "Solid State Materials", New Delhi, February, 1973	Transverse striations and growth Features in Bi single crystals.

(d) Talks given at different Universities :

Sr.No.	Name	University/Place	Topic
(1)	Professor C. V. Ramakrishnan	(i) Extension Institute, Anand	Applied Nutrition
		(ii) Agriculture Institute, Anand	Nutritional Problems in Villages.
		(iii) Guha Institute Symposium	Effect of Nutritional deficiency in brain enzymes.
		(iv) Biochemistry Department, Punjab University, Chandigarh	(a) NADH_2 oxidation in corn mitochondria. (b) Organic acid metabolism in fruits.
		(v) Medical College, Jamnagar	Nutritional deficiency and brain function.
(2)	Dr. (Smt.) R. Rajalakshmi	(i) John Hopikns University, Baltimore	Nutrition problems in India.
		(ii) Ohio University, Columbus	Nutrition and brain function.

Sr.No.	Name	University/Place	Topic
		(iii) Medical College, Trivandrum	Ascorbic acid in Nutritional deficiency.
		(iv) Guha Institute Symposium	Ascorbic acid metabolism in pregnancy and lactation.
(3)	Dr. A. R. Mehta	(i) Summer Institute in Cell Physiology for University and College Teachers, Gujarat University, Ahmedabad, June, 1972	Crop improvement through plant tissue culture methods.
		(ii) Jodhpur University Botanical Society, Inauguration Lecture, at Jodhpur, January, 1973	Applications of plant cell suspensions.
(4)	Professor S. M. Sethna	(i) Ravenshaw College, Cuttack	Some aspects of Chemistry of Koumarines.
		(ii) Microbiology Department, M. S. University of Baroda. 150th Birth Anniversary of Louis Pasteur Celebrations	Pasteur and Organic Chemistry.
(5)	Dr. P. K. Bhattacharya	(i) Annual Convention of Chemists at Allahabad, October, 1972	Mixed ligand Complexes.
		(ii) Rajasthan University, Jaipur	Some binary and ternary complexes.
(6)	Professor S. S. Merh	(i) Wadia Institute of Himalayan Geology, Delhi, December, 1972	Structure and stratigraphy of parts of Kumaon Himalaya.
		(ii) Karnatak University, Dharwar	Rock folding.
(7)	Professor V. V. Modi	(i) Summer Institute in Cell Physiology at the University School of Sciences, Gujarat University, Ahmedabad, June, 1972	Microbes and the mechanism of inheritance.

Sr.No.	Name	University/Place	Topic
		(ii) I.A.R.I., New Delhi, July, 1972	Microbial genetics and problems of nitrogen availability to plants.
(8)	Dr. P. J. Dave	J. J. College of Science, Nadiad December, 1972	(i) Modern Bacterial Classification. (ii) Bacterial Genetics today.
(9)	Professor N. S. Pandya	M. G. Science College, Ahmedabad, February, 1973	Story of Diamond (in Gujarati).
(10)	Dr. M. M. Patel	Science College, Kadi	Application of Molecular Spectroscopy.
(11)	Professor R. V. Shah	Sardar Patel University, Vallabh Vidyanagar	Evolution of air s in Sauropsida.
(12)	Dr. R. M. Naik	Saurashtra University, Rajkot	Animal Behavior
(13)	Professor S. W. Dharmadhikari	(i) Sardar Patel University, Vallabh Vidyanagar	Frobenius Theorem, Markov Chains and Sufficiency.
		(ii) Physics Department, M. S. University of Baroda	Interplay between Probability theory and Statistical Physics.

(e) Participation in In-Service Programme:

Name of the Teacher	Programme, Place and Dates	Capacity in which participant
(1) Dr. A. G. Phatak	Summer Institute in Operations Research, I.I.T. Madras. 14th May to 9th June, 1973	Participant
(2) Shri A. M. Parikh	Symposium on Combinatorial Mathematics, New Delhi, 25th to 27th December, 1972	Participant
(3) Professor (Smt.) I. V. Bhanot	All India Seminar of Demographers of DRC'S/CAR'S/State/D and E Cells Department of F.P., Government of India, New Delhi, 15th to 17th February, 1973	Participant

Name of the Teacher	Programme, Place and Dates	Capacity in which participant
(4) Shri M. M. Gandotra	All India Seminar of Demographers of DRC'S/CAR'S/State/D & E Cells Department of F.P., Government of India, New Delhi, 15th to 17th February, 1973	Participant
(5) Shri Narayan Das	(i) All India Census Century Seminar organised by the Office of Registrar General India, Ministry of Home Affairs, New Delhi, October, 1972	Participant
	(ii) All India Second Data Base Seminar on the Role of sample survey, Poona, 9th to 11th June, 1972	Participant

(f) Participation in other Activities:

Dr. S. W. Dharmadhikari was re-elected on the Council of the Indian Statistical Institute, Calcutta.

Professor S. M. Sethna was elected Vice-President of the Institution of Chemists (India).

Dr. V. M. Shah worked as Editor of 'Ganit Darshan'.

(g) Research:

(i) Research Work Completed:

- (1) Shri S. N. Padate
Flora and Vegetation of Savli Taluka.
- (2) Dr. S. W. Dharmadhikari
(i) Some results on the Kernal of a set.
(ii) A characterisation of convexity and central symmetry for planner polygonal sets.
(iii) Characterisations of unimodality of discrete random variables.
(iv) Convolutions of model distributions.
- (3) Dr. A. G. Phatak and D. K. Shah
The maximum likelihood estimate of the fraction defective under curtailed multiple sampling plans.

- (4) Dr. A. G. Phatak and Shri N. I. Shah On Inadmissibility of certain MVUE's.
- (5) Dr. M. Sreehari (i) An estimate of the residual in the central limit theorem for sums of random number of random variables.
(ii) A note on the attraction of a composition to a stable law.
(iii) Infinite divisibility of integer valued random variables.

(ii) Research work in progress:

Name of the Teachers	Research Work
(1) Professor C. V. Ramakrishnan	(i) Studies on the use of Gamma rays for purification of sewage. (ii) Studies on high protein biscuits.
(2) Dr. (Smt.) R. Rajalakshmi	(i) Studies on Nutrition and Brain function. (ii) Studies on Ageing.
(3) Dr. S. K. Srivastava	Amino acid metabolism in plant tumour tissues.
(4) Dr. L. J. Parekh	Biochemical studies on citrus vesical callus tissues cultivated in vitro.
(5) Dr. Suresh Sail	Studies on human nutrition.
(6) Dr. R. P. Bhatt	Karyomorphological and Cytotaxonomical studies of some member of Malvaceae.
(7) Dr. S. D. Sabnis and Dr. S. J. Bedi	Flora of Dadra and Nagar Haveli.
(8) Dr. S. J. Bedi	Ecological and Floristic Studies of the Sadad Vel Range near Songadh, Surat District.
(9) Dr. C. H. Pathak and Dr. G. P. Pratapasenen	Studies on the effect of succinic acid and gibberellic acid and sorghum.
(10) Dr. A. R. Mehta	Tissue Culture.

Name of the Teachers	Research Work
(11) Dr. V. M. Shah	Fourier Analysis.
(12) Dr. O. P. Goyal	Fourier Analysis.
(13) Dr. M. Sreehari	(i) On the attraction to a stable law of the components of a convolution. (ii) Rate of convergence in the Invariance Principle.
(14) Shri H. C. Patel	Admissible estimators in sampling from finite population.

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

(1) Statistical Service Unit :

The Statistical Service Unit earned an income of Rs. 6,544/- through undertaking the work of data processing for research workers of the University. Also it gave consultancy services to the teachers of the University. The nature of applications received for admissions to Preparatory Arts, Commerce and Science was analysed. Statistical summary of Medical Examination Reports for 196-970 and 1970-71 were prepared.

(2) Demographic Research Centre :

Demographic Research Centre is attached to the Department of Statistics. The research work completed is as under :

- M. M. Gandotra (i) Fertility Differentials amongst contraceptors and non-contraceptors in India.
(ii) Quality Control and Evaluation system of a Camp Approach.
- I. V. Bhanot and M. M. Gandotra Demographic and Socio-Economic Correlates of Contraceptors in India.
- Narayan Das A Factor Analysis approach to study variation in Family Planning performance in India.
- M.M. Gandotra (i) Population Growth and its effect on pollution.
(ii) Population problem and need for Family Planning in Industries.
(iii) Mass Vasectomy Camp evaluation study in Baroda District.
(iv) Fertility and Mortality in India.

Research work in progress is as under :

- (i) A study of Neo-natal and maternal mortality by age and parity.
- (ii) A study of age at Menarche among the college entrants.
- (iii) A comparative study of sterilised spouses in Baroda District for the period 1966-67.
- (iv) Functional characteristics of all the cities and towns and their effect on urban growth in Gujarat State.
- (v) A study of examining a relationship between the health of a mother and the length of an interval between two pregnancies.
- (vi) A study of variation in achievement of targets in Gujarat State.
- (vii) Depth study to assess the reasons for good or bad performance at district and lower level.
- (viii) A study of assessing Industrialisation and Urbanisation pattern in all the States of India.

(3) Research Unit at Trivendrum :

A Research Unit has been established in collaboration with Professors of Paediatrics and Neurosurgery at Medical College, Trivendrum, for the nutritional studies, by the Department of Biochemistry.

(4) Special Assistance Programme of the U.G.C. :

The Biochemistry Department is selected by the University Grants Commission for a programme of Special Assistance.

6. Faculty Students' Association

The Executive Committee of the Students' Association comprised of 16 elected representatives. The Dean acted as the President. Various staff members assisted in various activities like Entertainment, Magazine, Sports and Games etc. The Magazine Committee organised competitions on different aspects like cover-page design, essays, short stories, poems etc. which received good response from the students.

An essay writing competition was held as a part of programme of celebrations of Silver Jubilee of Independence on the topic "Challenges Facing Independence". A symposium on "Post-Independence achievements in Science and Technology in India" was also organised. Prizes were awarded to the three speakers in order of merit.

A variety entertainment programme was organised on 5th October, 1972. Students bagged various group and individual prizes in the Inter-Faculty Contests in Entertainment and Sport events at the 22nd Youth Festival of the University. Notable event was the winning of Championship at the Inter-Faculty Hockey and Football Tournaments.

There is a 'Students Library' run by the Statistical Society. There are about 30 reference books in this library purchased from the subscriptions paid by the members. The Departmental staff-room is put at the disposal of the students as reading-room for certain specified hours.

7. Museum, Laboratory, Studios, Workshops etc.

Additions continued to be made to the museums in the Botany, Geography, Geology and Zoology Departments. Progress has also been made in the work of preparing a herbarium in the Botany Department. The Central Workshop continued to render assistance during the year in the preparation of research and other apparatus, repairing of instruments and of training post-graduate students of Physics Department in Workshop practice etc.

Additions made by way of scientific apparatus and equipment during the year to the laboratories of the Faculty are shown in the following table:

Laboratory	Cost of equipment as on 1-4-1972	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1973
	Rs.	Rs.	Rs.	Rs.
Biochemistry	6,52,569	—	2,539	6,55,108
Botany	4,65,203	—	24,514	4,89,717
Chemistry	6,69,590	—	18,676	6,88,266
Geography	2,42,345	—	15,011	2,57,356
Geology	5,65,719	—	14,331	5,80,050
Microbiology	3,74,000	—	19,460	3,93,460
Physics	7,74,464	—	20,316	7,94,780
Workshop	68,348	—	—	68,348
Statistics	1,37,286	—	14,322	1,51,608
Zoology	4,74,958	—	16,902	4,91,860
Total	44,24,482	—	1,46,071	45,70,553

8. Faculty Publications

Name of the Journal	Editor	Month of Publication
Journal of Animal Morphology and Physiology	J. C. George	June and December
'PAVO' (The Indian Journal of Ornithology)	J. C. George	March and September

9. Visitors

Name and Designation	Date of Visit
(1) Professor I. C. Pade, Director, Advance Studies in Himalayan Geology, Chandigarh	6th May, 1972
(2) Shri N. Vittal, Director, Geology and Mining Gujarat State, Ahmedabad	2n July, 1972
(3) Professor T. S. Mahabale, M.A.C.S., Poona	17th to 19th July, 1972
(4) Dr. Dixie R. Smith, Chief, Range and Wild Life Habitat, Ecology and Management, Forest Service, U.S.D.A., Washington	21st November, 1972
(5) Professor (Miss) Maria Renee Cure, Professor of Geography, University of Buenos Aires	15th to 22nd Decem- ber, 1972
(6) Professor M. G. K. Menon D.Sc. F.R.S., Director of T.I.F.R., Bombay	5th and 6th January, 1973
(7) Professor Padmashri, P. N. Mehra Head, Department of Botany, Punjab University, Chandigarh	29th and 30th Janu- ary, 1973
(8) Mr. B. L. Burt,tt, Senior Scientific Officer, Kew Gardens, London	23rd February, 1973
(9) Mr. James R. Jones, Leader of USAID team for Ground Water Board, Government of India	23rd February, 1973

10. Important Events

(1) Under the joint auspices of University Grants Commission and the University, 150th birth anniversary of Louis Pasteur was celebrated on 22nd and 23rd December, 1972. On this occasion a Scientific Exhibition was organised, and a symposium was arranged on the afternoon of 23rd December, 1972. The following speakers participated in the symposium, highlighting the influence of Pasteur's contributions on the progress of different branches of Science. Dr. C. S. Patel, former Vice-Chancellor, M. S. University of Baroda was in the Chair.

Speaker	Topic
(i) Professor K. B. Sharma, Lady Harding Medical College, Delhi	Pasteur and Vaccines
(ii) Professor S. M. Sethna, Department of Chemistry, Faculty of Science, M. S. University of Baroda, Baroda	Pasteur and Organic Chemistry
(iii) Dr. P. K. Maitra, Tata Institute of Fundamental Research Bombay	Pasteur and Biochemi- stry
(iv) Dr. K. S. Gopalakrishnan, Hindustan Antibiotics, Poona	Pasteur and Applied Microbiology

(2) The Statistics Department organised short term courses in Operations Research for the inservice personnel of the surrounding industries in Baroda, for a period of eight weeks from September, 1972.

(3) The Bureau of Economics and Statistics of the Government of Gujarat entrusted the work of conducting a Survey on 'Unemployment among the educated persons in the Broach District' to the Department of Statistics.

CHAPTER X (A)—FACULTY OF EDUCATION AND PSYCHOLOGY

1. New Experiments

An Orientation Course for fresh/junior College teachers was organised for college teachers from Gujarat. There were 27 participants. The duration of the course was of 34 days—from 3rd April, 1972 to 6th May, 1972. The programme was sponsored and financed by the University Grants Commission, New Delhi.

2. Courses of Studies

(a) 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 (1) Educational Administration
(2) Guidance and Counselling
- (iv) Under-graduate Diploma (1) Education
(2) Early Childhood Education

3. Number of Students

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

	Men	Women	Total
(a) Under-graduate Diplomas :			
(i) Diploma in Early Childhood Education	—	20	20
Total	—	20	20
(b) Degrees :			
(i) B.Ed.	87	110	197
(ii) S.Y.B.A. (Psy.)	13	42	55
(iii) T.Y.B.A. (Psy.)	8	51	59
Total	108	203	311
(c) Post-graduate Degrees :			
(i) M.Ed. (Full-time)	6	8	14
(ii) Jr. M.Ed. (Part-time)	21	8	29

(iii) Sr. M.Ed. (Part-time)	26	3	29
(iv) Jr. M.A. (Psy.)	3	8	11
(v) Sr. M.A. (Psy.)	2	7	9
Total	58	34	92

(d) Ph.D.			
(i) Education	20	5	25
(ii) Psychology	3	1	4
Total	23	6	29
Grand Total	189	268	452

4. Staff

(a) Present Position:

During the year the staff of the Faculty (including CASE) consisted of 4 Professors, 8 Readers, 16 Lecturers, 5 Assistant Lecturers, 3 Senior Research Fellows, 10 Junior Research Fellows, 17 Class III and 8 Class IV employees.

(b) New Appointments:

- (i) Dr. B. K. Passi as Reader in Education
- (ii) Dr. Kuldip Kumar as Reader in Education
- (iii) Dr. D. B. Desai as Reader in Education (CASE)
- (iv) Dr. M. A. Yadav as Reader in Education (CASE)

(c) Teacher promoted or upgraded:

Smt. K. M. Pandit, Assistant Lecturer was promoted and appointed as Lecturer in Psychology.

(d) Teachers who left the University:

- (i) Shri J. K. Majmudar, Lecturer in Education (Resigned)
- (ii) Dr. K. C. Bhatt, Lecturer in Education working as Co-ordinator, Extension Service Department (Resigned)
- (iii) Shri I. J. Das, Lecturer in Education (Retired)

5. Professional Growth of the Staff

(a) Publication of Books, Monographs :

Author	Title	Where Published
(1) Professor D. M. Desai	(i) ભારતીય કેળવણીના ચક્ષુ મુશ્કો	Somaiya Publications, Bombay, August, 1972
	(ii) Education in Some Democratic and Socialist countries	A.R. Sheth & Co., Bombay, February, 1973

Author	Title	Where published
(2) Professor M. B. Buch	(i) Studies in Programmed Learning (General Editor)	CASE
	(ii) Studies in Innovations and Change (General Editor)	CASE
	(iii) Review of Research in Teaching (General Editor)	CASE
(b) Publication of articles/papers/brochures :		
(1) Professor D. M. Desai	(i) Community participation in the administration of Primary Education in International Perspective	Department of Educational Administration, March, 1973
	(ii) Administration and Control of Secondary Education in India	Fourth Indian Year Book, N.C.E.R.T., Delhi, March, 1973
	(iii) Examination Reform in Baroda University	Education and Psychology Review Vol. X, January-April 1972, No. 1 and 2
	(iv) Isolation in University Education	Education and Psychology Review, Vol. XII, July-October, 1972, No. 3 and 4
(2) Prof. M. A. Quraishi	Muslim Education and Learning in Gujarat	Faculty of Education and Psychology, 1972
(3) Dr. P. K. Dongre	Souvenir-Marathi Vangmaya Parishad, Baroda	20th January, 1973
(4) Shri D. R. Darji	Edited with Professor M. B. Buch and Shri Arvind Patel a special Issue of 'Nootan Shikshan' on Classroom Teaching	December-January 1972-73 Baroda, Issue No. 449-450
(5) Dr. Passi B. K.	Academic Predictors of final Professional Examinations of Electrical Engineering Course of Punjab University	The Educational Trends 7, 1, 54-64, 1972

Author	Title	Where published (please mention date of publication)
(6) Dr. Passi B. K. & Singh, Rachpal	Effects of Intelligence and Anxiety upon Serial Learning in relation to Associational and Difficulty Level of Learning Task	Indian Journal of Psychometry and Education, III, 2, 1-8, 1972
(7) Dr. Passi B. K. & Sodhi G. S.	Problem Solving in Physics in relation to Intelligence	New Trends in Education, III, 1, 17-24, 1972
(8) Dr. P. K. Dongre	(i) Seven Years (Marathi)	Diamond Jubilee Souvenir Baroda Education Society, Baroda, 10th December, 1972
	(ii) Presidential Speech (Marathi)	Conference Report Book of Marathi Vangmaya Parishad Baroda (1972-73) 20-1-1973
	(iii) A Linguistic Experiment on Marathi Literature (Marathi)	"Saha Vichar" Year Book of Sahavichar Sabha, Baroda, 10-2-1973
	(iv) Phonetics and its importance in the teaching of English	A two day Seminar on the Teaching of English in the College of Education, Godhra, 20-11-1972
(9) Shri D. R. Darji	(i) Classroom Structure	In 'Nootan Shikshan' December - January, 1972-73 Baroda
	(ii) Unity and Co-operation in Classroom	In 'Nootan Shikshan' December - January, 1972-73, Baroda
(10) Dr. A. S. Patel	(i) Understanding Research & Research Methodology in Social Sciences	Journal of Psychology Research Society, Gaya, Vol. I, No. 1 July 1972

Author	Title	Where published (please mention date of publication)
	(ii) Forms of items in Personality Inventory as a variable affecting personality assessment—a study in methodology & measurement	Education & Psychology Review, Vol. 12, No. 3-4, July-October, 1972
	(iii) Some Personality Traits of High Achievers and Low Achievers (Jointly with R. J. Joshi)	Education and Psychology Review, Vol. 12, No. 3-4, 1972
(c) Papers presented at conferences, seminars, etc :		
Name	Title of the Papers	Name of the Conference/Seminar & place and date
(1) Professor M. B. Buch	(i) Teacher Education and Programmed Learning	IAPL Conference, Madras, October, 1972
	(ii) Selection Tests for Salesmen and LIC Agents	Working Group of NIBM, Bombay, September, 1972
	(iii) Collaborative Research-Baroda-Bristol Link	University of Bristol, March, 1973
(2) Dr. Passi B. K.	(i) Sociometry and Classroom Management	Summer Institute on Teaching Technology Chandigarh April, 1972
	(ii) Classroom Interaction and Instructions	do
	(iii) Micro-Teaching and Classroom Interaction	Seminar on Student Teaching and Teacher Behaviour, CASE, Baroda, December, 1972

Name	Title of the Papers	Name of the Conference/Seminar & place and date
	(iv) A Frame Work for Research Studies in the Area of Student Teaching	Seminar on Student Teaching and Teacher Behaviour, CASE, Baroda, December, 1972
	(v) What is Creativity	Workshop on "Creativity in Teaching" Ajmer, RCE February, 1973
(3) Dr. A. S. Patel	(i) A study of Emotional maturity vs. neuroticism of adolescents as related to their order	Indian Academy of Applied Psychology Baroda April, 1972
	(ii) An experimental study of propaganda effect with respect to views on communal unity	Indian Science Congress, Calcutta, 1972
	(iii) Characteristics desirable for mate selection as perceived by college students and parents	-do-
	(iv) Phenomenological Approach in Experimental Psychology	-do-
	(v) Some critical issues in test construction procedures in education and psychology. (Paper for symposium on "Standardization" and evolution of test procedures in education and psychology)	-do-

Name of Staff member	Title of the papers	Name of the Conference/ Seminar
	(vi) A comparative study of Ranking Method, Rating Scale and Sociometric Technique in classroom situation : a study in Methodology	Indian Academy of Applied Psychology, Baroda April, 1972
	(vii) Marriage adjustment as related to some personality traits. (jointly with Kum. Jyoti Barot)	-do-
	(viii) Psychology in Use (Paper for Symposium on " Psychology—its uses and abuses)"	-do-
	(ix) Communal Riots—A Psychological View point (Paper published in Souvenir Publication).	-do-
	(x) A study of experimenter's effect on opinion change—a case of person perception with regard to views on national integration and communal unity.	XXth International Congress of Psychology, Tokyo (Japan) August, 1972
	(xi) Problems of Juvenile Delinquency as studied in India (Paper for Symposium on Gross-Cultural Studies of Juvenile Delinquency.)	-do-
(4) Dr. I. D. Bhatt and Dr. N. S. Pathak	(i) A study of the Significance of Group Life to Adolescent boys and girls	Xth Annual Conference of Indian Academy of Applied Psychology, Baroda, April, 1972.
	(ii) A study of the Cultural, Orientation of adolescent boys and girls	-do-

Name of Staff Member	Title of the papers	Name of the Conference/ Seminar
(5) Smt. Kamla Advani	(i) Measurement of the attitudes of High School Students towards their Social Customs	-do-
	(ii) Development of a scale to measure adolescent's attitudes towards Values of our Culture	-do-
(6) Smt. Kalpana M. Pandit	(i) Adjustment problems of the gifted children	-do-
	(ii) A study of factors contributing towards absenteeism among the workers in industry	-do-
(7) Dr. (Kum.) M. Gon	(i) An experimental study in the development of person perception	-do-
	(ii) A study in perception of wishes and values	-do-
(8) Shri R. K. Parlikar	To develop a scale of neuroticism in Gujarati	-do-
(9) Shri N. T. Pandey	(i) The effects of some personal factors upon over-all Job-satisfaction	-do-
	(ii) A study of manifest needs and perceived opportunity for the satisfaction of these needs in bottom, middle and top management Jobs	-do-
(10) Dr. (Smt.) Manjula Warty	A false emphasis on reducing error variance in modern psychological research	-do-
(d) Participation in In-service and other Programmes :		
(1) Professor M. B. Buch	(i) Chairman, Group on Teacher Education and Programmed Learning	Madras, October, 1972

- (ii) Resource Person, Orientation Course for Fresh Lecturers Baroda, May, 1972
- (iii) Resource Person, Orientation Course for Fresh Lecturers SNDT University Bombay, May, 1972
- (2) Professor M. A. Quraishi (i) Director, Orientation Course for Fresh/Junior Lecturers, Faculty of Education and Psychology Baroda, April/May, 1972
- (ii) Resource Person, Orientation Course in History for Teachers of Training Colleges of Maharashtra and Gujarat, organised by N.C.E.R.T. Poona, October, 1972
- (3) Dr. Passi B. K. (i) Participant, Summer Institute on Teaching Technology Chandigarh, April, 1972
- (ii) Participant, Seminar in Student Teaching and Teacher Behaviour Baroda, December, 1972
- (iii) Participant, Workshop on Creativity in Teaching Ajmer, February, 1975
- (4) Dr. P. K. Dongre (i) Participant, Sunday English Course Baroda, July, August, September, October, 1972
- (ii) Participant, English Course for foreign students Baroda, July, August, September, 1972
- (iii) Participant, Teaching of Sanskrit Baroda, December, 1972
- (iv) Participant, Teaching of English Amalsad, February, 1972
- (5) Shri D. R. Darji Participant, Workshop for the Preparation of Instructional Material for Philosophical and Sociological Foundations of Education State Institute of Education, Poona, September-October, 1972
- (6) Shri J. J. Gajjar Resource Person, Vocational Guidance in Secondary Schools Dabhoi, February, 1973

- (7) Dr. (Kum.) M. Gon (i) Participant, IV All India Conference on Mental Retardation Federation for the Welfare of the Mentally Retarded B.M. Institute, Ahmedabad, January, 1973.
- (ii) Participant, Mental Health Week sponsored by the Indian Council of Social Welfare and the Faculty of Social Work, M. S. University, Baroda. Faculty of Social Work, Baroda.
- (iii) Participant, Seminar on the Problems of the Physically Handicapped Children organised by the National Service Scheme and the Faculty of Social Work, M. S. University, Baroda. Faculty of Social Work, Baroda.
- (e) Research
Research Work Completed
- (1) Prof. M. B. Buch (i) Factors affecting diffusion of innovations in secondary schools (Guide)
- (ii) Relationship between patterns of teacher classroom behaviour and pupils' attainment in terms of instructional objectives (Guide).
- (iii) Political development and growth of Education in British India (Guide)
- (iv) Personality, attitudes and classroom behaviour of teachers (Guide)
- (v) Classroom behaviour, training of teachers and its relationship with some selected measure of pupils' criteria of teachers' effectiveness (Guide)
- (vi) A Study of the effects of Feedback from different sources on the classroom behaviour of student teachers using the techniques of interaction analysis (Guide)

Research Work underway

- (1) Prof. M. B. Buch
 - (i) Research in M. S. University of Baroda
 - (ii) An inquiry into the communication pattern of secondary school teachers in classroom
 - (iii) Organisational climate, teachers' Morale and School quality
- (2) Dr. Passi B. K. Educational Evaluation and Examinations
- (3) Shri D. R. Darji A study of School climate, teacher morale and motivation of pupils towards the school in the secondary schools of Panchmahal District
- (4) Dr. (Kum.) M. Gon An International Survey of the psycho-epistemic profile of students from France, Canada and India (with Dr. Bruce Bain, University of Alberta, Edmonton, Canada.)

6. Centre of Advanced Study in Education

This Centre continued to encourage the pursuit of 'excellence' and 'team work' in studies and research in Education, and accelerate the realisation high standards in these fields through its multifacet activities during the year 1972-73.

Research Activities :

Research programmes going on at the Centre have the following special characteristics : (i) studies undertaken at the Centre are aimed at providing break through in certain selected areas, (ii) studies are mostly experimental in nature involving sophisticated designs, (iii) team work is emphasized and persons with different specialisation work on the project, (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 in the implementation and execution of research findings.

The areas of research on which work is going on at present are the following :

- (i) Teacher Education, Teacher Behaviour, Teaching;
- (ii) Innovations and Educational Change Process; and
- (iii) Educational Technology and Programmed Instructions.

Exploratory research has also been initiated in creativity, achievement motivation, psychometry institutional climate and teacher morale.

Research programmes in Teacher Behaviour, Instructional Technology and Educational Change Process, have their specific rationale and priorities. The Centre visualises that intensive and sustained research in the first two areas might lead to the development of a 'Theory of teaching' which would help in improving programmes of Teacher Education and actual teaching in school classrooms.

A. Projects completed :

Research projects at doctoral level completed during the year were :

Innovations and Educational Change Process :

- (i) Factors affecting diffusion of innovations in secondary schools.
- (ii) An enquiry into conditions promoting adaptability in Indian schools.
- (iii) Perception of Characteristics of Innovations as related to their diffusion in Schools of Gujarat.

Educational Technology and Programmed Instruction :

- (i) An investigation into the relative effectiveness of different forms of Programmed Learning Material.
- (ii) A Study of effectiveness of Programmed Learning Material with reference to some personality variables.

Teacher Behaviour, Teacher Education and Teaching Process:

- (i) A study of the patterns of teacher influence in some selected schools.
- (ii) Relationship between patterns of teacher classroom behaviour and pupils' attainment in terms of instructional objectives.
- (iii) Personality, attitudes and classroom behaviour of teachers.
- (iv) Classroom behaviour, training of teachers and its relationship with some selected measures of pupils' criteria of teacher effectiveness.
- (v) A study of the effects of feedback from different sources on the classroom behaviour of student teachers using the technique of interaction analysis.

Other Aspects of Education:

- (i) Political development and growth of education in British India.
- (ii) A critical study of development, organizing programming and finances of colleges of education at the graduate level in Gujarat State.
- (iii) A critical study of the development of secondary education for girls and its present day problems in the State of Gujarat.

- (iv) A critical study of problems of administration and finance in primary education in the Gujarat State with special reference to the present working and the Role of Panchayat Raj Bodies in Southern Gujarat.
- (v) A critical study of vocational education in West Germany vis-a-vis vocational education in India.
- (vi) Education of the depressed classes in India during the British period.

In addition, the Centre collected all the Ph.D. work done in Education in the country upto 1972 and prepared research abstracts of these studies. Trend Reports on each of the major aspects of Education were then developed in collaboration with experts in the respective areas and a publication on Educational Research in India based on this work is now in process.

B. Projects in progress :

- (i) Study of Organizational climate, Teacher Morale and Pupil Motivation towards Institution in Secondary Schools of Baroda District.
- (ii) Comparative study of the Programmes of Elementary Teacher Education in the State of Gujarat and Phillipines.
- (iii) Barriers to change in Secondary Education.
- (iv) Teaching patterns and pupils' attainment.
- (v) Planning School education in Goa.
- (vi) Classroom questioning and pupil achievement : An enquiry into teaching style.
- (vii) An enquiry into the communication pattern of secondary school teachers in classroom.
- (viii) A study of motivation and its correlates in relation to performance among University Students.
- (ix) Teacher's Morale in the Secondary Schools of Gujarat.
- (x) A study of achievement motivation, personal preference, perception, anxiety, risk taking behaviour and other correlates in relation to Intelligence, Socio-economic Status and Performance of Teacher Training of Orissa State.
- (xi) Conducting achievement motivation development programme on teacher trainees and studying its effect on their performance.
- (xii) Changing teacher behaviour through feedback.
- (xiii) Changing teacher behaviour through feedback by micro-teaching and instructional strategy.
- (xiv) A comparative study of the rural teacher training in Baroda, Indian and the rural teacher training in Mahasarakām, Thailand.

C. Collaboration of the Centre with other institutions :

This Centre collaborated with institutions like N.C.E.R.T., 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 cooperation in the academic programmes of these institutions as shown below:

<i>Institution</i>	<i>Area in which help was given</i>
(1) N.C.E.R.T.	In a research project feasibility study of selecting children at 6 + from the backward communities for being placed in model schools to be established in each block by the Government during the Fifth Five Year Plan
(2) National Institute of Bank Management	Development of a Selection Test for the employees of nationalised banks
(3) Andhra University	Developing Courses of Study for M.Ed. and Ph.D. level
(4) Government of Maharashtra	Developing academic programmes for the Institute of Higher Education set up by the State Government
(5) Government of Rajasthan	Developing instructional programmes for the 12th year of higher secondary stage
(6) Ball State University, U.S.A.	Provided facilities to a Scholar in his project on a cross cultural study of teacher's perceptions

D. Seminars and Symposia:

The Centre organised the seminars and symposia on the following subjects:

- (i) Theory of Teaching
- (ii) Achievement motivation and classroom teaching
- (iii) Experimental designs in educational research
- (iv) Student teaching and classroom interaction

E. Publications.:

Books:

- (1) Dr. D. B. Desai Foundations of School Administration (in Gujarati) Anand Publishers, Ahmedabad

Articles/Papers:

- (1) Dr. D. B. Desai (i) The new era in psychological education Journal of Education and Psychology, July, 1972
 (ii) Achievement motivation development in high school pupils —do—
 (iii) Our findings from the research on achievement motivation in high school pupils —do—
 (iv) A review of research in achievement motivation development —do—
 (v) Recent trends in research in achievement motivation —do—
- (2) Dr. D. B. Desai Curriculum, methods and text-books Educational Research in India, CASE 1973
 and Sunirmal Roy
- (3) Dr. B. K. Passi Effect of intelligence and anxiety upon serial learning in relation to associational and difficulty level of learning tasks Indian Journal of Psychology Education, August, 1972
 and Rachpal Singh
- (4) Dr. B. K. Passi Problem Solving in Physics in relation to intelligence New Trends in Education, 1972
 and G. S. Sodhi
- (5) Dr. B. K. Passi Evaluation and Examination Educational Research in India, CASE, 1973
 and M. S. Padma
- (6) Sarvashri K. Social reinforcement and study behaviour of primary school students Proceedings of the Indian Science Congress, January, 1973
 Kumar and B. Roy
- (7) Sarvashri S. K. Tests and measurement Educational Research in India, CASE
 Mitra and K. Kumar
- (8) Professor N. V. Educational Sociology Educational Research in India, CASE
 Tirtha and M. Mukhopadhyaya
- (9) Dr. B. P. Lulla Perception of teacher trainees about population education programme in schools Educational Trends, Ajmer

- (10) Sarvashri N. K. Teaching and teacher Educational Research in Jangira, L. P. behaviour India, CASE, 1973
 Singh and Sharma
- (11) Prof. D. M. Desai Educational Administration do
 and Shri K. Sangeetha Rao
- (12) Prof. S. N. Economics of Education do
 Mukerjee and M. Mukhopadhyaya
- (13) Prof. S. Kapoor Social and Adult Education do
 and Shri M. L. Sharma
- (14) Shri M. R. Some Preliminary thoughts Naya Shikshak, October, in Classroom interaction December, 1972
 Santhanam analysis
- (15) Shri M. L. (i) Organizational Climate of School—A Comparative Study Naya Shikshak, January-1973
 Sharma
 (ii) Teachers' morale-its measurement Quest in Education, January, 1973
 (iii) Educating the managers of Educational Enterprise N. I. E. Journal, January, 1973.
 (iv) Continuing Education Reporter, February, 1973
 tion—A new perspective
- (16) Shri S. P. Towards Mathematical I. E. R. Vol. 7, No. 2, Bhattacharya models of teaching July, 1972
- F. Visitors
- (i) Dr. Shib K. Mitra, Joint Director, National Council of Educational Research and Training, New Delhi—110016.
- (ii) Dr. A. B. L. Srivastava, Senior Professor (Educational Statistics), National Institute of Health, Education and Administration, New Delhi.

- (iii) Professor H. B. Majumdar,
Head of the Department of Education,
Vishwa Bharati University,
Shantiniketan,
West Bengal.
- (iv) Dr. R. B. Mathur,
Head of the Department of Education,
Lucknow University,
Lucknow.
- (v) Professor Suresh Shukla,
Department of Education,
Jamia Millia Islamia,
New Delhi.
- (vi) Professor N. V. Manuel,
Head of the Department of Education,
Kerala University,
Trivendrum.
- (vii) Dr. N. N. Shukla,
Principal,
H. J. College of Education,
Bombay.
- (viii) Professor Prayag Mehta,
Head of the Department of Psychology,
Udaipur University,
Udaipur.
- (ix) Dr. Udai Pareek,
Dean, School of Basic Sciences and Humanities,
Udaipur University,
Udaipur.
- (x) Professor N. V. Thirtha,
Head of the Department of Education,
Bangalore University,
Bangalore.
- (xi) Dr. N. C. Gupta,
Professor in Education,
The Ball State University of Muncie,
U.S.A.
- (xii) Dr. Kim. Sibley,
Kent State University,
U.S.A.

7. 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 Workshops and Seminars

Sr. No.	Programme	Duration	Place	No. of Participant	Remarks
(1)	Training Course in Mathematics	8-5-72 to 19-5-72	Baroda	79	Seminar on New Mathematics
(2)	'Summer School of Education' Institutional Planning	10-5-72 to 15-5-72	Pavagadh	22	
(3)	Sunday English Course	26-7-72 to 10-12-72	Baroda	54	For teachers who are taking English though they had no English Method
(4)	Evening Classes on New Mathematics	18-7-72 to 20-10-72	Baroda	78	Four days a week
(5)	English Class for Foreign Students	18-7-72 to 19-9-72	Baroda	14	
(6)	Seminar on New Mathematics	24-7-72 to 30-7-72	Baroda	188	Organised in collaboration with E.I.
(7)	—do—	31-7-72 to 6-8-72			
(8)	—do—	7-8-72 to 13-8-72			
(9)	—do—	14-8-72 to 20-8-72			
(10)	—do—	3-8-72 to 9-8-72	Dohad	60	

Sr. No.	Programme	Duration	Place	No. of Participant	Remarks
(11)	—do—	17-8-72 to 26-8-72	Godhra	102	Organised in collaboration with E.I.
(12)	—do—	9-9-72 to 18-9-72	Dohad	45	—do—
(13)	Seminar on Science (New Course)	25-9-72 to 30-9-72	Baroda	170	—do—
(14)	—do—	2-10-72 to 7-10-72			
(15)	—do—	9-10-72 to 14-10-72			
(16)	—do—	16-10-72 to 21-10-72			
(17)	Seminar on Sanskrit Teaching	27-12-72 to 28-12-72	Baroda	51	New Sanskrit
(18)	Follow-up workshop on New Mathematics	17-2-73 to 19-2-73	Baroda	29	
(19)	—do—	20-2-73 to 22-2-73	Baroda	21	
(20)	New Mathematics and Science Follow-up and Orientation	7-5-73 to 12-5-73	Baroda	209	Participants from Baroda, Panchmahals, Bulsar and Surat Districts.
(21)	Summer School of Education Sanskrit	7-5-73 to 12-5-73	Baroda	80	—do—
(22)	Summer School of Education Institutional Planning	21-5-73 to 26-5-73	Baroda	48	Work experience, Vocationalization of Secondary Education, and Higher Secondary School Pattern.

(ii) *Experimental Projects :*

Twelve Experimental Projects designs were prepared under the guidance of this department and were submitted to NCERT for financial help.

(iii) *Seminar Reading Programme :*

Out of the ten papers sent to the Department of Education, Ahmedabad one has been selected for National Contest. One teacher Shri B. N. Patel, Principal of Mota High School, Mota received the National Award for Seminar Reading Programme.

(iv) *Experimental Work on Institutional Planning :*

The department prepared Blue Prints of work experience keeping in view the community needs, under Institutional Planning. The discussions and visits prepared selected schools of Baroda District to get ready with the new concept of work experience, as a special subject to be introduced at the first year of the High School stage from the next year.

8. Activities of the Department of Psychology(1) *Symposia*

The Department organized the following symposia:

Subject	Date
(i) Vocational Guidance and Counselling	December, 1972
(ii) Goals of Psychotherapy	30, January, 1973
(iii) Motivation in Industry	17, February, 1973

(2) *Weekly Seminar*

Staff and students of the Department of Psychology, meet once a week on every Thursday to discuss research problems and latest developments in different areas of psychology.

(3) *Psychological Society*

The society which is an academic organization of local psychologists, staff members and students of psychology organized lectures, symposia, extra-curricular activities, etc. during the year.

9. 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 21 Indian Journals and 20 Foreign Journals. Besides the non-recurring grant of Rs. 65,000/- under the Fourth Plan, the CASE library utilized a recurring grant of Rs. 10,000/- and a special grant Rs. 15,000/-. About 800 books have been added this year.

10. Distinguished Visitors to the Faculty

- (1) Professor L. J. Bhatt
Proferssor in International Studies,
South Florida University, U.S.A. 20-7-1972
- (2) Professor S. M. Mohsin
Head, Department of Psychology,
Patna University, Patna 29-7-1972
- (3) Mr. C. D. Roberts and
8 Educationists, U.K. 14-11-1972
- (4) Dr. H. W. Graf
Head, Department of Pedagogie,
Humbolt University, Berlin 24-1-1973

11. Important Events

The Department of Psychology organised the 10th Annual Conference Indian Academy of Applied Psychology from 17th to 19th April, 1972. About 125 delegates attended the conference.

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 in wood-work and needle-work in classes V, VI and VII. Classes IX and X have to select any one of Art, Music, Science, Wood-work and Games as their Hobby.

2. Number of Students

Classes	Boys	Girls	Total
Primary: I to VII	164	149	313
Secondary: VIII to XI	112	90	202
Total	276	239	515

3. Staff

	Graduate trained teachers	Under- Graduate trained teachers	Total
(1) Primary Section	5	3	8
(2) Secondary Section	6	—	6
(3) Specialised Teachers	3	2	5
(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

- (1) Principal M. M. Chokshi obtained his M.Ed. degree in second class from the Phillipines University.

(2) The following teachers participated in Workshops, Seminars, Camp, Conference etc.

Name of the Teacher	Workshop, Seminar, Camp, Conference	Capacity in which participated
(i) Smt. S. J. Chauhan	Workshop for paper setters in English at Baroda	Participant.
(ii) Shri M. C. Joshi	Seminar in Science for Standard VIII at Baroda	Participant.
(iii) Shri M. M. Amin	Seminar in Science for Standard VIII at Baroda	Resource person.
(iv) Shri M. M. Chokshi	All India Teachers Seminar on National Integration at Baroda	Programme Director.
(v) Shri S. R. Patel	All India Teachers Seminar on National Integration at Baroda	Seminar Secretary.
(vi) Shri S. R. Patel and (vii) Kum. N. P. Desai	U.S.O. Conference at New Delhi	Delegates.

5. School Library

280 new books worth Rs. 610/- were added during the year. This brought the total number of books to 7,280 at a cost of Rs. 21,300/- at the end of the year.

6. School Laboratory

Item	Cost of equipment etc. as on 31-3-72	Cost of equipment etc. written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-73
	Rs.	Rs.	Rs.	Rs.
Equipment	13,398-36	—	218-98	13,617-34

7. Experiments and Activities

(1) The pupils of Standard IX prepared a project in Social Studies on different Countries.

(2) A questionnaire was prepared and distributed to parents asking their opinion about sending their wards on trip this year. The parents expressed their opinions in favour of sending their wards on trips. Classwise trips were arranged this year to various places.

(3) Seven persons who had actually participated in the freedom movement were invited to guide the pupils in writing articles for the School Magazine. They also gave a talk on 'The Fight for Freedom' to the pupils.

8. Results of Examination

(1) 51 pupils appeared at the S.S.C. Examination held in March, 1972. The result was 92.3%. Ch. Kalyan B. Sandesara stood third and Ch. Chandresh M. Shah stood fifth in the Board, while Ch. Nishit J. Pandya stood eighth in Baroda Centre.

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

Examination	Result in Percentage
(i) Elementary Drawing Grade Examination	90%
(ii) Intermediate Drawing Grade Examination	66%
(iii) Shishta Vachan	100%
(iv) Sanskrit Examinations:	
(a) Balbodh	100%
(b) Prarambhika	100%
(c) Praveshika	100%
(d) Aswad	100%

9. Awards and Prizes

(1) Awards in Fine Arts :

(i) Chi. Amita Shah of Std. VII won 'A Free Trip to Geneva' and three gifts—a bicycle, a transistor and a pen-set—in Children's Painting Competition.

(ii) Chi. Deep Patel of Std. X and Chi. Naresh Desai of Std. VIII won cash prizes of Rs. 50/- in Shanker's International Children Art Competition.

(iii) Five pupils of the school won silver medals and one pupil won a bronze medal in the sixth All India Art Competition at Hyderabad, organised by 'Child Art Club' and sponsored by Lal Bahadur Shastri Memorial. The School was awarded a shield for winning the highest number of prizes.

(iv) A one-act play named "Glimpses of the U.S.O. Conference Activities" presented by the pupils of the school at the U.S.O. Conference at Delhi was adjudged best at the National level.

- (v) Chi. Vikram Patil of Std. IX got the first prize in Light Music Competition at the U.S.O. Conference held at Delhi.
- (vi) The pupils won the second prize in 'Drama Rehearsal' in the Gujarat Sangeet Natya Academy, Bal Natya Competition.
- (vii) The pupils of the school got nineteen prizes in the Extempore Drawing Competition organised by the Baroda Municipal Corporation and the Lalitkala Academy.

(2) *Awards in Sports :*

- (i) Three pupils—Ajay Bhatt of X, Tushar Dholakia of XI and Pradip Kulashreshtha of X were selected in Basket Ball Team of the District.
- (ii) Ajay Bhatt who was selected in Basket Ball Team of Gujarat went to Tripura to play at winter sports festival.
- (iii) In Baroda District Madhyasth Krida Mandal the school became champion. 14 prizes were won and Chi. Varsha Vakil of Std. XII won Mohanlal Dhobiwala Shield in the Swimming competition. The school won the shield for the third time.
- (iv) In Baroda District Swimming Competition Chi. Varsha Vakil of XI and Manoj Mehta of X stood first. Both these pupils were selected for State Swimming Competition.
- (v) Seventeen prizes were won by the pupils in the University Swimming Competition.

(3) *Awards in Debates and Essay Competitions :*

- (i) Chi. Ashish Shah of Std. IX got the fourth prize in the Extempore Speech competition (in Gujarati) organised by the Society for Encouraging the Art of Public Speaking.
- (ii) Chi. Panna Shah of Std. IX got the second prize in the Extempore Speech Competition (in Hindi) organised by the Society for Encouraging the Art of Public Speaking.
- (iii) In the Essay competition organised by Nagarik Raktdan Samiti, Chi. Bela Dixit of Std. IX and Chi. Nilima Daftari of Std X were awarded the first and second prizes respectively.
- (iv) Chi. Manisha Desai of Std. X and Chi. Asish Shah of Std. IX won the first and second prize respectively in the Debate organised by Nagarik Raktdan Samiti, Baroda.

10. Important Events

(1) The School celebrated the Silver Jubilee week in honour of completing twenty-five years of freedom. Debates in three languages, story-telling competitions in three languages, 'Chatur-no Chotro', drama competitions, entertainment programmes were organised during the week.

(2) The following were some of the distinguished visitors to the School:

- (i) Dr. M. S. Patel, former Dean, Faculty of Education and Psychology of the M. S. University of Baroda.
- (ii) A Japanese delegation representing International Cultural Exchange Programme.
- (iii) Dr. Roberts, Expert in Education of Indian Pupils in England, U.K.

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, Commerce, Industry, Co-operation, Public Finance, Advanced Statistics, Transport, Business Management. |
| (4) Post-graduate Diplomas | Banking; Co-operation. |
| (5) Under-graduate Diploma | Co-operation. |

2. Number of Students

The classwise distribution of students during the year 1972-73 is as under:

Class	Men	Women	Total
(1) Diploma in Co-operation (Under-graduate)	11	2	13
(2) F.Y.B.Com.	565	283	848
(3) S.Y.B.Com.	698	170	868
(4) T.Y.B.Com.	686	169	855
(5) M.Com. Part I	67	3	70
(6) M.Com. Part II	43	8	51
(7) Post-graduate Diploma in Banking	38	14	52
(8) Post-graduate Diploma in Co-operation	6	1	7
Total	2114	650	2764

3. Staff

The staff of the Faculty consisted of 2 Professors, 7 Readers, 17 Lecturers, 6 Part-time Lecturers, 7 Class III and 14 Class IV Employees, as on 31st March, 1973. The Departments of English, Law, Mathematics, Statistics, made arrangements for teaching of the subjects of English, Mercantile Law, Mathematics, Statistics. Some members of the staff of this Faculty had teaching assignment in the Faculty of Technology and Engineering, Faculty of Law and the Polytechnic.

New Appointments:

- (i) Shri M. D. Mohite—Lecturer in Economics
- (ii) Shri M. M. Shah—Lecturer in Accountancy

4. Professional Growth of the Staff

Name of the staff member	Title	Name of the journal wherein published
(a) Articles:		
Shri A. S. Bhatt	Delegation of Authority—A strategy for individual growth	Quarterly Journal of Management Development, October, 1972.
Shri C. S. Rathod	A textile labour Co-operative Bank—A case study	Journal of the Textile Labour Association, Ahmedabad, 1972.
Smt. B. H. Elavia	Agricultural Co-operative Credit Movement in Baroda District	National Co-operation Development-Co-operation Bulletin, April, 1972.
Shri I. P. Vyas	Critique of Line Staff Relationship	" Management Review ", Publication of Baroda Management Association, Baroda, January, 1973.
(b) Books:		
Dr. S. Srikantiah	Elements of Business	Acharya Book Depot., Baroda
Dr. K. R. Shah and Shri J. K. Shah	Economics	October, 1972.

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 (i) Economic Students' Association, (ii) Banking Students' Association, (iii) Accountancy Students' Association and (iv) Business Management Students' Association. They arranged talks, debates and essay competitions.

7. Other Important Events

(i) On 24th December, 1972 the Faculty organised on behalf of the Committee for Co-operative Training of the National Co-operative Union of India, New Delhi, an Inter-Faculty prize debate on Co-operation. The subject of the debate was: "In the opinion of this House, Co-operation is the only hope of the economic well being of common man in India". Kumari Geeta Gandhi of this Faculty was awarded First Prize.

(ii) The Faculty organised the Fifteenth Dena Bank Trophy Debate on 9th February, 1973. Commerce colleges in the Gujarat Statate took part in it. The subject of the Debate was "In the opinion of this House, Nationalisation of Commercial Banks in India has failed to achieve its objectives".

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, Dermatology, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Pharmacology, Physiology, Preventive and Social Medicine, and Radiology.
(b)	M.S.	Anatomy, E.N.T., Ophthalmology, Orthopaedic and Snrgery
(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:		Men	Women	Total
	M.B.B.S.			
	1st year	127	15	142
	2nd year	139	20	159
	3rd year	111	15	126
	4th year	110	13	123
	5th year	120	12	132
Total:		607	75	682

(2) Post-graduate Diploma :

	Men	Women	Total
D.A.	3	6	9
D.C.P.	2	2	4
D.G.O.	—	14	14
D.L. and O.	2	—	2
D.M.R.E.	2	—	2
D.O.	2	2	4
D.C.H.	2	2	4
T.D.D.	1	—	1
D.V.D.	2	—	2
Total :	16	26	42

(3) Post-graduate Degrees :

M.D.	11	21	32
M.S.	17	1	18
M.Sc.	9	6	15
Ph.D.	4	1	5
Total :	41	29	70
Grand Total :	664	130	794

3. Staff

(a) Present Position :

The staff of the College consisted of Dean, 17 Professors, 35 Assistant Professors, 36 Junior Lecturers, 13 Other Gazetted Staff, 9 Honorary Professors, 9 Honorary Assistant Professors, 3 Honorary Part-time Assistant Professors, 3 Part-time Junior Lecturers, 98 Class III and 80 Class IV employees.

(b) New appointments :

Anaesthesia

- (i) Dr. (Smt.) A. H. Rathod

Junior Lecturer

Anatomy

- (i) Dr. R. V. Limaye

Junior Lecturer

- (ii) Dr. M. K. Shridharani

Junior Lecturer

Obstetrics Gynaecology

- (i) Dr. (Kum.) D. S. Shah

Assistant Professor

Paediatrics

- (i) Dr. (Kum.) U. J. Modi

Professor

Pathology

- (i) Dr. (Kum.) N. B. Mehta

Junior Lecturer

- (ii) Dr. S. T. Amin

Junior Lecturer

Physiology

- (i) Dr. B. N. Mazumdar

Professor

- (ii) Dr. (Smt.) L. Krishnamurthy

Junior Lecturer

- (iii) Dr. (Kum.) S. N. Modi

Junior Lecturer

Preventive and Social Medicine

- (i) Dr. A. U. Shah

Junior Lecturer

Radiology

- (i) Dr. M. H. Vaidya

Assistant Professor

- (ii) Dr. M. S. Talsania

Junior Lecturer

Surgery

- (i) Dr. U. T. Patel

Part-time Assistant

Professor

(c) Teachers promoted to higher positions :

Dr. (Smt.) V. Handa, Dr. B. H. Oza and Dr. (Kum.) N. N. Shah were promoted as Assistant Professors in Pathology, Medicine and Obstetrics and Gynaecology respectively.

Dr. D. H. Trivedi and Dr. A. M. Thakkar were promoted as Professors of Preventive and Social Medicine and Surgery respectively.

(d) Teachers who left the college :

Professors

- (i) Professor A. K. Niyogi (Preventive and Social Medicine)

Assistant Professors

- (i) Dr. R. P. Bhatt (Bacteriology), (ii) Dr. S. S. Kabade (Anaesthesia), (iii) Dr. Walmiki (Obstetrics & Gynaecology)

Junior Lecturers

- (i) Dr. A. A. Sanghavi (Anatomy), (ii) Dr. (Kum.) J. M. Patel (Anaesthesia), (iii) Dr. P. N. Kataria (Bacteriology), (iv) Dr. A. P. Shah (Paediatrics), (v) Dr. (Smt.) L. Krishnamurthy, (vi) Dr. S. T. Amin, (vii) Dr. (Smt.) J. Indumathi, (viii) Dr. (Kum.) C. P. Dandekar (Pathology), (ix) Dr. R. S. Gaekwad (Pre. & Social Medicine), (x) Dr. J. D. Patel, (xi) Dr. R. J. Patel (Radiology) and (xii) Dr. D. S. Doctor (Surgery).

4. Professional Growth of the Staff

(a) Publication of Articles

Authors	Title	Journal
(1) Dr. J. P. Saxena and Dr. N. R. Prabhakar	Effect of distension of urinary bladder on blood pressure and respiration in anaesthetised dogs	Indian Journal of Physiology and Pharmacology
(2) Dr. A. B. Khurana	(i) A Controlled trial of imipramine hydrochloride on enuresis (ii) Comparison of Lorazepam with Diazepam in Anxiety Neurosis (iii) A Multicentre Investigation of Lorazepam in Anxiety Neurosis	The Current Medical Practice, 16, 7, 305-308, 1972 Current Medical Research and Opinion, U.K., 1, 4, 192-198, 1973 Current Therapeutic Research, U.S.A., 15, 7, 500-507, 1972
(3) Dr. A. T. Phatak	(i) The Child in Ancient India—a paediatrician's view (ii) It was too late	Medical News, Medicine and Law, April, 1972 Medical News, Medicine and Law, March, 1973
(4) Dr. A. T. Phatak and Dr. S. B. Shah	(i) Post infusion phlebitis (ii) Incidence of severity of neonatal tetanus	Indian Paediatrics, October, 1972 Indian Paediatrics, February, 1973
(5) Dr. P. Phatak and Dr. A. T. Phatak	Application of Bayley Scales for Infant Development (B.S.I.D.) to Neurologic Cases	Indian Paediatrics, March 1973
(6) Dr. S. Srinivasan	A Colorimetric method for the estimation of 2-methyl-6-(3'-Methyl-2'-Pyridyl) 4(3H) Quinazolinopope (SRC-820)	Indian Journal of Physiology and Pharmacology, 16, July-September, 1972

Authors	Title	Journal
(7) Dr. R. V. Bhatt	(i) Environmental factors in human reproductions (ii) Reproductive performance and neonatal growth in relation to plane of nutrition (iii) Field training in Obstetrics and Gynaecology for internees (iv) Study of gastric acidity curves in Pregnancy (v) Intravenous iron-dextran complex in iron deficiency anaemia in 675 patients (vi) Pattern of weight gain in normal pregnancy	Journal of Obstetrics and Gynaecology, India February, 1972. Perspective in Nutrition, M. S. U. 1972 Indian Journal of Preventive and Social Medicine, March, 1972, 3, 39, 1972 Antiseptic, September, 1972 Journal of Obstetrics and Gynaecology, India October 1972, 22 : 497 : 72 Journal of Obstetrics and Gynaecology, India 22 : 631 : 1972
(8) Dr. R. S. Pande Dr. P. R. Shah Dr. M. J. Asher and Dr. M. C. Patel	Hypertrophic osteoarthropathy in nortal Cirrhosis	Journal of Association of Physics of India Vol 10 No. 4 pp. 335-337 April 1972
(9) Dr. R. S. Pande and Dr. P. R. Shah	Obteogenesis imperfecta	Journal of Association of Physics of India Vol. 10 No. 6. pp. 463-465 June, 1972
(10) Dr. C. P. Shah Dr. B. R. Shah Dr. N. G. Sanghavi and Dr. N. B. Shah	(i) Malabsorption in Chronic Diarrhoea (ii) Efficacy of Digoxin for Pulmonale	Indian Practitioner 25 : 537 December, 1972 Indian Practitioner 26:143 March, 1973.

Authors	Title	Journal
(11) Dr. Suriya Jaykar and Dr. O. D. Gulati	Effects of metabolic poisons and digoxin of the adrenergic neurone blocking action of guanethedine	Indian Journal of Physiology and Pharmacology 16, 75-8 1972
(12) Dr. C. P. Munshi Dr. P. M. Vaidya Dr. J. J. Buranpuri and Dr. O. D. Gulati	Kalaazar in Gujarat	Journal of Indian Medical Association 59, 287, 293 1972
(13) Dr. C. P. Munshi Dr. H. M. Parikh and Dr. O. D. Gulati	Clinical efficiency and postural hypotension liability of some antihypertensive drugs	Current Med. Practic 16, 279, 286 1972
(14) Dr. P. S. Nagpaul	(i) Dorsal Trans-Scaphoid Perilunar Dislocation of the Carpus (ii) Backache is also a Joker (iii) Myositis Ossificans (iv) Fracture of the Femoral Shaft with Dislocation of the Ipsilateral Hip	Indian Journal of Surgery, Vol. 34, No. 7, 1972 Indian Medical Gazette Vol. XI No. 12, 1972 Indian Journal of Surgery, Vol. 34, No. 10, 1972 Quarterly Journal of Surgical Sciences, Vol. 8, No. 4, 1972.
(15) Dr. M. N. Saxena	Recurrent Coarctation of the Aorta: Incidence, likely causes and some views about the initial management of Coarctation	Pediat Clin. of India, 7:15, 1972
(16) Dr. U. J. Modi	Etiology and Clinical features of iron deficient anamia in infancy and childhood	Gujarat Medisal Journal, 1972
(17) Dr. C. P. Munshi	(i) Diet in medical disorders (ii) Newer Horizons in Medicine	Conference Souvenir Publication. —do—

(b) Papers presented at Conferences, Seminars, etc.

Name of the Teacher	Conference, Seminar etc.	Paper read or presented
(1) Dr. J. P. Saxena and Dr. N. R. Prabhakar	XVIII Annual Conference of the Association of Physiologists of India, 27, 28 and 29th December, 1972-Hyderabad	Effects of distension of urinary bladder on blood pressure, heart rate and respiration in anaesthetised dogs.
(2) Dr. P. B. Roy and Dr. V. P. Vaishnav	Seminar on Cholera 3, 4 and 5th October, 1972-Ahmedabad	El Tor Cholera in Baroda and its sewage.
(3) Dr. A. B. Khurana	Mental Health Week, 21st to 28th January, 1973-Baroda	Concept of Team Functioning in the Mental Health Field.
(4) Dr. A. S. Chikermane	National Conference of Indian Academy of Pediatrics, 3rd to 6th January, 1973-Trivendrum	Effect of maternal malnutrition on the birth weight of Babies II Early Delection.
(5) Dr. A. T. Pathak	National Conference of Indian Academy of Pediatrics, 3rd to 6th January, 1973 Trivendrum	(i) Application of Bayley Scales of Infant Development to Neurological cases. (ii) Working of a Well Baby Clinic in a slum area.
(6) Dr. V. P. Vaishnav	Symposium on Environmental Studies, 23rd and 24th January, 1973 Baroda	Cholera with special reference to Baroda and its sewage
(7) Dr. R. V. Bhatt	All India Seminar on Abortions, Infanticide and Suicide. 6th to 8th April, 1972 Goa	Criminal Abortion in Western India
(8) Dr. O. D. Gulati and Dr. D. J. Panchal	Fifth International Congress in Pharmacology, 23rd to 28th July, 1972, San-Francisco	Analysis of Inhibitors action of nicotine and dimethylphenyl piporazinum on the rat ileum

<i>Number of the Teacher</i>	<i>Conference, Seminar etc.</i>	<i>Paper read or presented</i>
(9) Dr. O. D. Gulati Dr. V. R. Dhumal and Dr. N. Sivaramkrishna	All India Symposium on Applied Neurobiology and Neurophysiology, 10th to 12th October, 1972—Jaipur	Effect on the Central release of amines and body temperature of intraventricularly administered Gamma amino-butyric acid
(10) Dr. C. P. Shah Dr. A. S. Chikarmane Dr. R. R. Patel Dr. P. R. Raghunath and Dr. O. D. Gulati	Annual Conference of Association of Physiologists and Pharmacologists 27th to 29th December 1972—Hyderabad	A study of plasma free insulin like activity and its response to oral glucose load in normal and protein Caloria mal-nourished children
11) Dr. V. R. Dhumal and Dr. O. D. Gulati	Annual Conference of Association of Physiologist and Pharmacologists, 27th to 29th December 1972—Hyderabad	(i) Temperature effect produced by the infection of nor-adrenaline and gamma-amino butyric acid into cerebral ventricles of conscious rats (ii) Effect on body temperature of dog cerebral ventricles with artificial C.S.F. deficient in calcium or contain sodium or excess calcium
(12) Dr. A. J. Patel Dr. A. S. Chikera- mane and Dr. (Kum.) R. R. Patel	I.A.P. Conference, April, 1972—Agra	Role of Nutrition Rehabilitation Centre in the management of Protein Calorise Malnutrition
(13) Dr. D. S. Shah, Dr. A. S. Chikera- mane and Dr. P. K. Billur	—do—	Babies born to Mothers with Iron Deficiency Anaemia.

<i>Name of the Teacher</i>	<i>Conference, Seminar etc.</i>	<i>Paper read or presented</i>
(14) Dr. V. C. Patel	Gujarat State Medical Conference at Palanpur and Billimora	(i) Constructive Pericarditis (ii) Mitral Valve Surgery
(15) Dr. C. P. Munshi	(i) Gujarat State Medical Conference, Palanpur (ii) Gujarat State Medical Conference, Billimora (iii) All India Medical Association, (I.M.A.), Ahmedabad.	Abdominal Pain (Chairman of the Panel Discussion) Medical Meet (Chairman of the Panel Discussion) Intensive Cardiac Care (Panel Speaker)
(c) Participating service and other Programmes:		
<i>Name of the Teacher</i>	<i>Programme</i>	
(1) Dr. C. P. Munshi	Member of the Journal Committee, Gujarat Scientific Committee, Gujarat (Medical Council of India (Medicine) examinations of College, and Mangalore Medical 12 and of Behrampur Medical sa) of Kashmir University in 1973 Committee Member of Indian Medical n and Council Member, 1972-73 and	
(2) Dr. A. B. Kothari	(i)	(ii) Chairman, Scientific Session (Surgical) in Sta. Conference, 1972. (iii) President, Tuberculosis Association, Baroda (iv) Executive Committee Member, Gujarat Medical Council, 1972. (v) Member of Collegium International Chirurgical Digestiva Rome (Italy)—M.C.I.C.D. (Rome) (vi) Commissioned by Medical Council of India to inspect Armed Forces Medical College and a to inspect the examinations. (vii) Inspect the Medical College and also examination at Medical College. M and Mysore.
(3) Dr. V. C. Patel	President, Baroda Surgeon's Association	

<i>Number of the Teacher</i>	<i>Conference, Seminar etc.</i>	<i>Paper read or presented</i>
(9) Dr. O. D. Gulati Dr. V. R. Dhumal and Dr. N. Sivaramkrishna	All India Symposium on Applied Neurobiology and Neurophysiology, 10th to 12th October, 1972—Jaipur	Effect on the Central release of amines and body temperature of intraventricularly administered Gamma amino-butyric acid
(10) Dr. C. P. Shah Dr. A. S. Chikarmane Dr. R. R. Patel Dr. P. R. Raghunath and Dr. O. D. Gulati	Annual Conference of Association of Physiologists and Pharmacologists, 27th to 29th December 1972—Hyderabad	A study of plasma free insulin like activity and its response to oral glucose load in normal and protein Caloria mal-nourished children
11) Dr. V. R. Dhumal and Dr. O. D. Gulati	Annual Conference of Association of Physiologist and Pharmacologists, 27th to 29th December 1972—Hyderabad	(i) Temperature effect produced by the infection of nor-adrenaline and gamma-amino butyric acid into cerebral ventricles of conscious rats (ii) Effect on body temperature of dog cerebral ventricles with artificial C.S.F. deficient in calcium or contain sodium or excess calcium
(12) Dr. A. J. Patel Dr. A. S. Chikera- mane and Dr. (Kum.) R. R. Patel	I.A.P. Conference, April, 1972—Agra	Role of Nutrition Rehabilitation Centre in the management of Protein Calorise Malnutrition
(13) Dr. D. S. Shah, Dr. A. S. Chikera- mane and Dr. P. K. Billur	—do—	Babies born to Mothers with Iron Deficiency Anaemia.

<i>Name of the Teacher</i>	<i>Conference, Seminar etc.</i>	<i>Paper read or presented</i>
(14) Dr. V. C. Patel	Gujarat State Medical Conference at Palanpur and Billimora	(i) Constructive Pericarditis (ii) Mitral Valve Surgery
(15) Dr. C. P. Munshi	(i) Gujarat State Medical Conference, Palanpur (ii) Gujarat State Medical Conference, Billimora (iii) All India Medical Association, (I.M.A.), Ahmedabad.	Abdominal Pain (Chairman of the Panel Discussion) Medical Meet (Chairman of the Panel Discussion) Intensive Cardiac Care (Panel Speaker)

(c) Participation in In-service and other Programmes:

<i>Name of the Teacher</i>	<i>Programme</i>
(1) Dr. C. P. Munshi	(i) Member of the Journal Committee, Gujarat State (I.M.A.) (ii) Chairman of the Scientific Committee, Gujarat State Branch, (I.M.A.) (iii) Commissioned by Medical Council of India to report on M.D. (Medicine) examinations of Mysore Medical College, and Mangalore Medical College in 1972 and of Behrampur Medical College (Orissa) of Kashmir University in 1973
(2) Dr. A. B. Kothari	(i) Working Committee Member of Indian Medical Association and Council Member, 1972-73 and 1973-74. (ii) Chairman, Scientific Session (Surgical) in State Conference, 1972. (iii) President, Tuberculosis Association, Baroda (iv) Executive Committee Member, Gujarat Medical Council, 1972. (v) Member of Collegium International Chirurgiae Digestiva Rome (Italy)—M.C.I.C.D. (Rome) (vi) Commissioned by Medical Council of India to inspect Armed Forces Medical College and also to inspect the examinations. (vii) Inspect the Medical College and also M. S. examination at Medical College. Mangalore and Mysore.
(3) Dr. V. C. Patel	President, Baroda Surgeon's Association.

(d) Research work completed:

Name of the Teacher	Research Project
(1) Dr. J. P. Saxena and Shri N. Mohan Rao	Effect of bilateral cervical Vagotomy in dogs on heart rate—E.C.G, blood pressure and respiration
(2) Dr. G. K. Gajera	Cholera in Baroda and its sewage
(3) Dr. (Kum.) V. N. Gokani	Bacteriology of septic buras
(4) Psychiatry Department Staff	A Controlled trial of imipramine hydrochloride on Enuresis
(5) Pediatrics Department Staff	Study of Neonatal Infections
(6) Dr. (Smt.) Indumati Nathan	Chemical estimation of Heptoglobin in Normal Controls and in cases of liver Cirrhosis and infective Hepatitis
(7) Dr. K. Barodawala	Distribution of blood groups of three system in Bohoras
(8) Dr. U. L. Deuskar	Pathology of sudden and unexpected death in Medical college practice.
(9) Dr. D. O. Dharkar	Tumours of skin and its adnexa
(10) Shri P. B. Shah	Studies on acid base and electrolyte status in the neonatal infants
(11) Gynaecology Department	(i) Criminal abortion in Baroda (ii) Effect of addition of Sodium bicarbonate on oral iron absorption (iii) Pulmonary function in normal pregnancy (iv) Weight gain patterns in normal pregnancy (v) Postpartum weight studies in the first week (vi) Study of Electrolyte Values in normal and toxemic pregnancy (vii) Studies on Ovulation during lactation
(12) Physiology Department	(i) Renal function in diabetes mellitus (ii) Acetylcholinesterase activity of blood in diazinon poisoning (iii) Gastric secretion in cirrhosis of liver (iv) Effect of caffeine on carbohydrate metabolism in normal and diabetic subjects.
(13) L. Dr. Billur	

(e) Research Work in Progress:

Name of the teacher	Research Project
(1) Dr. J. P. Saxena and Shri N. R. Prabhakar	Effects of distension of urinary bladder on blood pressure heart rate and respiration
(2) Dr. T. V. Joshi and Shri S. Srinivasan	Evaluation of Iron transport in sub-clinical iron deficiency anaemias in man
(3) Dr. B. N. Mazumdar and Shri N. R. Prabhakar	Study into the function of the pericardial receptors in dogs
(4) Psychiatry Department	(i) Lorazepam, a minor tranquilizer in the treatment of Psychosomatic Disorders (ii) A Clinical Study of attempted suicide (iii) Evaluation of G.O. 3315, a major tranquilizer in Schizophrenia
(5) Pediatrics Department	(i) Trial of varying doses of A.T.S. in tetanus (ii) Development study of C.P. and Mental Retardation (iii) Follow up study of rheumatic fever (iv) Trial of Cytotoxic drugs in Nephrosis (v) Study of anaemias in childhood (vi) Follow up study of malnutrition (vii) Study of maternal malnutrition on the birth weight of baby
(6) Dr. V. P. Vaishnav and Dr. (Kum.) Kamini Patel	Comprehensive survey of leprosy
(7) Dr. V. P. Vaishnav and Dr. (Kum.) N. B. Mehta	Anaemias in infancy and childhood

<i>Name of the teacher</i>	<i>Research Project</i>	<i>n</i>
(8) Dr. S. Srinivasan	(i) Metabolism of 3-Substituted quinazolinones (ii) Role of insulin in antiinflammatory response induced by Gluco Corticoids (iii) Influence of administered Hexoscs on Serum Glycoprotein level in Normal and Diabetic subjects.	
(9) Gynaecology Department	(i) Serum Sodium studies after 20% installation of Sodium Chloride in ambiotic sac for induced abortion. (ii) Comparative evaluation of different methods for terminating second trimester pregnancy. (iii) Long term follow up of female sterilisation (iv) Metrogyl in Leucorrhoea.	
(10) Physiology Department	(i) Latent diabetes in relatives of diabetic patient (ii) Renal involvement in hypertension, aortography in hyper tension (iii) Plasma insulin like activity in protein malnutrition. (iv) Spastic paraplegias—etiologiocal evaluation. (v) Epilepsy—pneumoencephalographic study and drug control. (vi) Cerebrovascular disease due to non specific arthritis (Tubercular) (vii) Metabolic study of uroemia and glucose intolerance in uroemia. (viii) Lung function in pulmonary tuberculosis. (ix) Comparative evaluation of bronchodilator therapy in obstructive lung disease. (x) Etiological study—young hypertensive subjects (xi) Gastric secretion in chronic renal failure (xii) Serum cholinesterase level in acute myocardial infarction	

5. Shri Sayaji General Hospital

The Hospital is a teaching institution attached to the Medical College for Under-graduates and Post-graduates of the M. S. University of Baroda. It has a total staff of 1205 employees.

The Hospital has at present 924 beds and provides facilities of all types of cases. viz. General Medical, Surgery, Paediatrics, Ophthalmic, Plastic, Obstetrics and Gynaec., Orthopaedic, Psychiatric, Dental, E.N.T., C.T., Skin and V.D., Physiotherapy. Moreover special clinics viz. Neurology, Well Baby Clinic, Fertility, Sterility, Diabetic, Neuro-Medical, Respiratory, Antenatal, Family Planning, Anti-rabic, etc. are running at this hospital.

It has X-Ray Department, Central Sterile Supply Department, Pharmacy Department, Blood Bank, Laboratories, Orthopaedic Workshop and School of Physiotherapy.

The Hospital treated 1,90,748 patients in Out-door Patient Department (i.e. 1079.94 daily) and 32,294 patients in Indoor Patient Department (i.e. 961.77 daily) and performed 25,256 operations during the year under report. The X-Ray Department took 39,476 X-Ray plates and the Anti-Rabic Clinic gave treatment to 3014 dog-bite cases.

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.

<i>Particulars</i>	<i>Number</i>
(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	47000
(4) Total number of books issued to teachers during the year	5200

The details regarding the stock and expenditure of the Library :

	<i>Number</i>	<i>Rs.</i>
(1) Books (Including back numbers of Journals (as on 1-4-1972)	16212	—
(2) Books written off during the year	128	1822-20
(3) Books as on 31-3-1973	16762	—
(4) Books added during the year (including Back Volumes)	138	19027-55

		Rs.
(5)	Journals subscribed during the year	175 35003-00
(6)	Amount spent on binding during the year	— 1741-00
(7)	Total amount spent on Library and/or Reading Room during the year	— 55768-50

7. Museums, Laboratories, Studios, Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1972 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 31-3-1973 Rs.
(1)	Museums	4,02,009	904	3,419	4,04,524
(2)	Laboratories	11,34,160	8,709	15,216	11,40,667
(3)	Studios	—	—	—	—
(4)	Workshops	—	—	—	—
Total :		15,36,169	9,613	18,635	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 Medical Herbs and Minerals, a Clinical Laboratory, a Rash-shala.

2. Library

The total number of books is 2,631.

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.

4. Garden

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

5. Reorganisation of the Unit

The Unit has been reorganized during the year as per the following details :

- (i) The research work will be conducted on Ayurvedic Clinical Lines.
- (ii) Principal, Government Shuddha Ayurvedic College, Baroda will be the Project Officer of this Unit.
- (iii) A Research Officer and an Assistant Research Officer will be appointed on long terms basis.
- (iv) A separate O.P.D. will be started for the Unit as in the past.
- (v) Twenty beds with Male and Female allotment will be provided at the S.S.G. Hospital, Baroda as at present. Nursing personnel as well as Ward servants, Sweeper etc. would be manned and managed by the Hospital.

- (vi) House Physicians will be appointed for short tenures of one year and on fixed salary.
- (vii) The Project Officer will be a Member of the Staff Selection Committee of the Unit.
- (viii) The administration of the Unit will be controlled by the University as at present.
- (ix) Modern investigations will continue to be conducted by the respective departments of the Medical College and Hospital.
- (x) The new set-up of establishment for research programme to be started at the Unit and the scales of pay/honorarium for the new posts with D.A. rates will be as per Sarela Commission scales wherever applicable. The posts of the Pharmacist, the Case-Writer and the Sweeper be not provided for at present and the present confirmed employees of the Unit in Class III and Class IV including the Research Assistant in Chemistry be suitably absorbed in the new set-up.
- (xi) The entire responsibility of the medical care and treatment of the in-door patients kept at the S.S.G. Hospital Baroda under the research programme of the Unit will be that of the Project Officer.

6. Method of clinical research work

(A) Selection of patients :

Normally the patients will be admitted for research purpose from the General Ayurvedic O.P.D. Suspected cases for the scheme will be admitted to the Indoor Patient Department of the hospital.

(B) Methods of the investigation :

After admitting the patients in the Indoor Department they will be examined according to Ayurvedic Method of "Nidan Panchak" and "Rogi Pariksha" and the diagnosis will be established in each patient. In order to support the Ayurvedic Method of diagnosis necessary modern investigations will also be carried out. The following methods of clinical investigations would be adopted:

(i) "Rogi Pariksha Vidhi"

- (a) "Prashna Pariksha" (Interrogation of the Patient)
- (b) "Pratyaksha Pariksha" (Clinical examination of the patients and pathological examination of urine, stool and blood etc. त्वचा, नख, नेत्रादि वर्ण परीक्षा)

(ii) Roga Pariksha Vidhi

- (a) "Nidanani" (Causes of the diseases)

- (b) "Purvarupani" (Prodromal symptoms of the diseases)
- (c) "Rupani" (Signs and symptoms of the diseases)
- (d) "Upashaya" (Relief with the help of diet "पथ्य" Medicine and normal activity विहार)
- (e) "Samprapti and Samprapti Ghatkani" (Etiology and etiological factors)

Follow up :

During the trial the signs and symptoms of the patients will be checked every day by Ayurvedic and Modern Term.

Treatment :

After the complete diagnosis suitable cases will be kept on drug and diet according to disease.

Duration of trial :

The minimum and the maximum time of the trial will be decided by the Project Officer according to diseases.

Observations :

The observations will be recorded in suitable Fabular forms.

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

(1) Co-operative (Sandwich) course was started in Summer 1969, as a Pilot Project. Initially it was confined to the Mechanical and Electrical branches and was extended to Chemical and Metallurgical branches. Students of Mechanical, Electrical and Chemical branches undergoing practical training completed their training in December 1972.

(2) To meet the growing needs of students about to graduate in connection with practical training and assistance in job placement, a post-Diploma Director of Training and Placement was instituted and it was filled up in March 1973.

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

(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) Post-Diploma Diploma Refrigeration and Air-Conditioning

(viii) Diploma:

D.T.C. and D.T.T. Textile Chemistry and Textile Technology

3. Number of Students

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

	Men Students	Women Students	Total Number
(a) <i>Diploma</i>			
Textile Chemistry:			
I Year	32	—	32
II Year	23	—	23
III Year (Final Year)	118	—	118
S.S.C. 15			
B.Sc. 103			

	Men Students	Women Students	Total Number
Textile Technology:			
Pre. T.T.	34	—	34
1st year T.T.	28	—	28
2nd year T.T.	15	—	15
3rd year T.T. (Final Year)	20	—	20
Total	270	—	270
(b) <i>Post-Diploma Diploma</i>			
Post-Diploma Diploma in Refrigeration and Air-Conditioning	8	—	8
Total	8	—	8
(c) <i>Degree</i>			
B.E. I (CME Ch. Met.)	413	2	415
B.E. II (Civil)	137	—	137
B.E. II (Mech.)	88	—	88
B.E. II (Elec.)	99	—	99
B.E. II (Chem.)	36	—	36
B.E. II (Met.)	24	—	24
B.E. III (Civil)	90	—	90
B.E. III (Mech.)	68	—	68
B.E. III (Elec.)	89	—	89
B.E. III (Chem.)	39	—	39
B.E. III (Met.)	26	—	26
B.E. IV (Civil)	67	—	67
B.E. IV (Mech.)	100	—	100
B.E. IV (Elec.)	75	2	77
B.E. IV (Chem.)	39	—	39
B.E. IV (Met.)	33	—	33
B.E. IV (Electronics)	14	—	14
B.E. V (Civil)	81	—	81
B.E. V (Mech.)	95	1	96
B.E. V (Elec.)	68	—	68
B.E. V (Chem.)	43	1	44
B.E. V (Met.)	42	—	42
B.E. V (Electronics)	17	—	17
Post-B.Sc.			
B.E. I (Electronics)	31	—	31
B.E. II (Electronics)	21	—	21
B.E. III (Electronics)	20	1	21

	Men Students	Women Students	Total Number
Textile Engineering and Technology :			
F. Text. Engg. and Tech.	45	—	45
S. Text. Engg.	12	—	12
S. Text. Tech.	26	—	26
T. Text. Engg.	18	—	18
T. Text. Tech.	30	1	31
B. Text. Engg.	10	—	10
B. Text. Tech.	26	—	26
Architecture :			
B. Arch. I year	32	11	43
B. Arch. II year	32	7	39
B. Arch. III year	23	12	35
B. Arch. IV year	39	9	48
B. Arch. V (Final year)	29	6	35
Total	2177	53	2230
(d) Post-graduate Diploma :			
Post-graduate Diploma in Refri- geration and Air-conditioning	8	—	8
Total	8	—	8
(e) Post-graduate Degree :			
Civil Engineering			
Public Health Engineering :			
Jr. Year	4	—	4
Sr. Year	2	—	2
Soil Mechanics :			
Jr. Year	1	—	1
Sr. Year	2	—	2
Highway Engineering :			
Jr. Year	—	—	—
Sr. Year	2	—	2
Hydraulics :			
Jr. Year	5	—	5
Sr. Year	—	—	—
Structural Engineering :			
Jr. Year	6	1	7
Sr. Year	5	—	5

	Men Students	Women Students	Total Number
Mechanical Engineering :			
I.C.E. :			
Jr. Year	7	—	7
Sr. Year	6	—	6
Production Engineering :			
Jr. Year	7	—	7
Sr. Year	5	—	5
Electrical Engineering :			
Automatic Control Engineering :			
Jr. Year	11	1	12
Sr. Year	5	—	5
Electrical Power Engineering :			
Jr. Year	8	—	8
Sr. Year	1	—	1
Text. Engineering :			
Jr. Year	4	—	4
Sr. Year	4	—	4
Total	85	2	87
(f) Ph.D.			
Total	4	—	4
Summary			
(a) Diploma	270	—	270
(b) Post-Diploma Diploma	8	—	8
(c) Degree	2177	53	2230
(d) Post-Graduate Diploma	8	—	8
(e) Post-Graduate Degree	85	2	87
(f) Ph.D.	4	—	4
Grand Total	2552	55	2607

4. Staff

(a) Present Position :

During the year the staff of the Faculty consisted of 19 Professors, (5 of whom are in the senior scale), 36 Readers, 109 Lecturers, 31 Senior Instructors, 2 Junior Instructors, 7 Assistant Lecturers, 168 Class III and 87 Class IV employees.

(b) *New Appointments :*

- (1) Shri G. B. Sompura, Reader in Civil Engineering.
- (2) Shri D. H. Parmar, Lecturer in Mathematics.
- (3) Shri D. R. Parikh, Lecturer in Mathematics.
- (4) Shri C. G. Gupte, Workshop Superintendent.

(c) *Teachers upgraded to higher positions :*

- (1) Shri J. R. Derasari, Reader in Electrical Engineering appointed as Director of Training and Placement.
- (2) Dr. (Smt.) R. K. L. Padmini Agrawal, Lecturer in Physics to Reader in Physics.
- (3) Shri K. V. Gautam, Lecturer in Civil Engineering to Reader in Civil Engineering.
- (4) Dr. A. V. Shroff, Lecturer in Applied Mechanics to Reader in Applied Mechanics.
- (5) Sarvashri L. H. H. Prasad, A. G. Shah, W. P. Bhagat, M. N. Karlekar, P. H. Patel, A. D. Dixit, K. P. Dhake and R. K. Shah, Assistant Lecturers in Physics to Lecturers in Physics.
- (6) Sarvashri C. A. Shah, A. O. Shah and N. F. Patwa, Assistant Lecturers in Mathematics to Lecturers in Mathematics.
- (7) Sarvashri S. S. Bhatwadekar, B. A. Patel, J. B. Desai and S. C. Gupte, Assistant Lecturer/Senior Instructors in Electrical Engineering to Lecturers in Electrical Engineering.
- (8) Sarvashri M. T. Chhangawala, K. B. Shah, B. C. Chauhan, M. K. Shah, N. M. Bhatt, R. A. Vora and S. T. Bhatt, Assistant Lecturers in Chemistry to Lecturers in Chemistry.
- (9) Sarvashri D. C. Desai, V. H. Kapadia, N. B. Patel, B. K. Shah and V. N. Patel, Senior Instructors in Textile Engineering to Lecturers in Textile Engineering.
- (10) Sarvashri G. D. Kahar, R. G. Bansal and J. P. Khatri, Senior Instructors in Mechanical Engineering to Lecturers in Mechanical Engineering.
- (11) Sarvashri P. M. Sutaria, J. J. Prajapati, N. B. Parmar, G. N. Shah, S. P. Shah, A. D. Joshi, K. V. Jaradi and A. S. Manodt, Senior Instructors in Civil Engineering to Lecturers in Civil Engineering.
- (12) Sarvashri M. S. Bhavsar, A. K. Shah, G. D. Patel, M. O. Parekh, P. V. Darji and S. S. Shah, Senior Instructors in Applied Mechanics to Lecturers in Applied Mechanics.
- (13) Shri Vasdev Singh, Senior Instructor in Chemical Engineering to Lecturer in Chemical Engineering.

- (14) Sarvashri G. G. Lele, R. G. Desai, R. P. Gupta and R. N. Jaiswal, Assistant Lecturers in Textile Chemistry to Lecturers in Textile Chemistry.

(d) *Teachers who left the University:*

- (1) Professor R. L. Desai, Professor and Head of the Textile Chemistry Department—retired.
- (2) Professor P. R. Batni, Professor of Electrical Engineering to go to U.S.A.
- (3) Shri K. Surappa, Reader in Applied Mechanics to go to U.S.A.
- (4) Shri P. Roy, Reader in Textile Engineering, for better prospects.
- (5) Dr. M. V. Vasavda, Reader in Mathematics for better prospects.
- (6) Shri A. V. Rahalkar, Lecturer in Electrical Engineering for better prospects.
- (7) Shri R. G. Nambiar, Lecturer in Economics for better prospects.
- (8) Shri P. B. Patel, Lecturer in Textile Engineering—retired.

5. *Professional Growth of the Staff*(a) *Publication of Articles :*

S. No.	Name	Title	Where published
(1)	Shri C. M. Patel and Dr. S. K. Mehta	Influence of Piecewise Linear Cost-time Relationship on Project cost optimization	Journal of Technology and Engineering No. 8 July, 1972
(2)	Shri S. G. Shah and Professor R. C. Desai	(i) Euler-Lagrange Conditions and Estimation of States for a Discrete-time Linear System with time-delay	—Do—
		(ii) Estimation of States and Parameters	—Do—
(3)	Professor R. C. Desai and Shri C. S. Lalwani	The Maximum Principle for System with Time-Delay	—Do—
(4)	Dr. D. C. Kantawala	Planning for Pollution Control	—Do—
(5)	Professor R. M. Dave	Mixing Zones for Waste Effluents Discharged into Water bodies	—Do—
(6)	Dr. D. C. Kantawala and Professor R. M. Dave	Design of Diffuser outfall for the disposal of an industrial waste	—Do—

Sr.No.	Name	Title	Where published
(7)	Shri U. S. Tawade, Dr. D. C. Kantawala and Shri P. R. Gharekhan	Some Studies on simulated wastes from a Petro-chemicals Manufacturing Plant	Journal of Technology and Engineering No. 8 July, 1972
(8)	Dr. D. C. Kantawala and Dr. S. V. Ganapati	Low cost Waste treatment—A review of needs, methods and trends	—Do—
(9)	Shri P. V. Kaundinya and Professor R. M. Dave	Artificial methods of destratification of density stratified Reservoirs	—Do—
(10)	Professor V. Seshadri	Structure and Viscosity of Silicate Metals	Proceedings of Silver Jubilee Symposium of Indian Institute of Metals, June, 1972 p. 203-218
(11)	Shri U. P. Sinha	Diffusion of silver in Cadmium	Scripta Metallurgica Vol. 6 (p. 495-500) June, 1972
(12)	Professor R. V. Joshi and Shri T. R. Joshi	(i) Thermoluminescence of X-irradiated NaCl. TI (ii) Traps responsible for 360 and 390 K glow peaks in X-irradiated NaCl : TI crystal	Journal of Physics (Applied Physics), England, 1972 Acta Crystallographica, Denmark, 1972
(13)	Professor R. V. Joshi and Shri P. P. Mathews	Room Temperature Absorption and Thermal glow in KCl : TI	Indian Journal of Pure and Applied Physics, India, 1972
(14)	Professor R. V. Joshi and Shri N. L. Kekan	Effect of exciting radiation on the thermal glow of NaCl. Sr.	Journal of Physics D (Applied Physics)
(15)	Dr. (Smt.) A. R. K. L. Padmini and Shri K. K. Gopinathan	Ultrasonic Attenuation in Bi-single Crystals	J. Physical Society of Japan, 1972
(16)	Shri K. K. Gopinathan and Dr. (Smt.) A. R. K. L. Padmini	Ultrasonic Studies on Bi-Sb alloys	Journal of Physics C. Solid State Physics, England

Sr.No.	Name	Title	Where published
(17)	Professor J. S. Dave, Sarvashri George Kurian, A. P. Prajapati and R. A. Vora	Mesomorphic behaviour in a homologous series of naphthylidene Schiff's base compounds	Current Science, 41, 415 (1972)
(18)	Dr. A. M. Talati and Shri V. N. Mistry	(i) Semiconducting Chelate polymers of dihydroxybenzoquinone (ii) Semi-conducting Chelate Polymers of dihydroxy quinones with cobalt.	Journal of Technology and Engineering. VII, 7 (1972) Material Science Engineering 10, 287 (1972)
(19)	Shri R. M. Pancholi	Verse Translations of two poems of Emily Dickinson	Sanskriti, September, 1972
	(b) Publication of Books and Monographs :		
	Professor R. C. Desai and Shri C. S. Lalwani	Identification Techniques	Tata McGraw Hill, New Delhi, August, 1972
	(c) Papers read at Conferences, Seminars, etc.		
(20)	Shri R. M. Pancholi	(i) USEFI Seminar on Practical Criticism at Udaipur, 22-25th May, 1972 (ii) XIII All India English Teachers' conference at Ahmedabad, 29-31st December, 1972	Translation as Criticism The Feline way-Raja Rao's 'The Cat and Shakespeare'

6. 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-University and other debating and elocution contests and won prizes in some of the contests.

(2) The Students' Chapter is a body of engineering students operating in this Faculty under the general guidance and supervision of the Institution of Engineers' Baroda Sub-Centre. It continued to have its usual activities. 15 films of general and technical interest were shown and tours to Refinery, Dhuvran, Thermal Power Station and Ukai Dam were organised. 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 also 14 strips of 35 mm films. Films are also obtained on loan for use from various organisations. 41 films were shown during the periods July, 1972 to March, 1973.

(4) The Co-operative Store registered a total sale during the year, of Rs. 6,345-20.

7. Library

The reading-room of the Library has a sitting accommodation for 130 readers.

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 number of students making use of Library and/or reading-room daily	880
(2) Average number of teachers making use of the Library and/or the reading-room daily	50
(3) Total number of books issued to students during the year	4,500
(4) Total number of books issued to teachers during the year	6,810

Particulars	Number		Cost in Rs.
	Books	Bound Periodicals	
(1) Books (including back numbers of Journals) as on 1-4-1972	41,744	5,113	12,04,182-27
(2) Books written off during the year	—	—	—
(3) Books added during the year	1,492	418	2,19,735-37
(4) Books as on 31-3-1973	43,236	5,531	14,23,917-64
(5) Journals subscribed during the year	217	—	—
(6) Amount spent on binding during the year	—	—	5,500-00
(7) Total amount spent for Library and/or Reading-room till the end of the year	—	—	14,29,417-64

8. Museums, Laboratories, Studios, Workshop etc.

Item	Cost of equipment etc. as on 1-4-1972	Cost of equipment written off during the year 1972-73	Cost of equipment added during the year 1972-73	Cost of equipment etc. as on 31-3-1973
	Rs.	Rs.	Rs.	Rs.
Laboratories	55, 64,902	—	7,53,750	63,18,652

9. Faculty Publications

The Journal of Technology and Engineering was published in July, 1972.

10. Visitors

(1) Dr. V. Tsotskhadze, UNESCO Expert visited this Faculty on 11-4-1972.

(2) Shri Singh, Minister of State for Law visited this Faculty on 8-10-1972.

(3) Professor M. S. Thacker, Chairman, Board of Post-graduate Studies in Engineering visited this Faculty on 5th, 6th and 7th December, 1972 for continuation of Post-graduate courses.

(4) The Evaluation Committee for Academic Evaluation and Assessment of performance in respect of this Faculty, appointed by the Ministry of Education and Social Welfare, Government of India, Western Regional Office visited this Faculty on 15th and 16th December, 1972.

(5) Professor Patruncov and Professor Silyanov, UNDP Experts visited this Faculty on 30th November and 1st December, 1972 in connection with the UNDP Project for establishing Regional Engineering Research Centre at this Faculty.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Courses of Studies

The Faculty offers the following courses:

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

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	1	0	1
2nd Year	1	1	2
Total	2	1	3
(b) Diploma:			
1st Year	37	4	41
2nd Year	19	3	22
3rd Year	22	1	23
4th Year	16	—	16
5th Year	11	—	11
Total	105	8	113
(c) Post-Diploma Diploma			
Junior	6	2	8
Senior	7	1	8
Total	13	3	16

Year/Class	Men	Women	Total
(d) Degree:			
1st Year	19	16	35
2nd Year	17	6	23
3rd Year	6	6	12
4th Year	3	7	10
5th Year	3	6	9
Total	48	41	89
(e) Post-graduate Diploma:			
Junior	5	2	7
Senior	2	—	2
Total	7	2	9
(f) Post-Graduate Degree:			
Junior	2	5	7
Senior	—	—	—
Total	2	5	7
(g) Ph.D.	—	—	—
Grand Total	177	60	237

3. Staff

The staff of the Faculty including the Museology Department consisted of 2 Professors (one of whom is in the senior scale), 7 Readers, 19 Lecturers, 3 Assistant Lecturers, 1 Taxidermist, 1 Part-time Photographer, 1 Part-time Instructor, 13 Class III and 18 Class IV employees.

Dr. S. M. Nair, Lecturer in Museology, resigned with effect from 31st March, 1973 for better prospects.

4. Professional Growth of the Staff

(a) Publications:

Name of the Teacher	Article/Paper	Name of the Journal wherein published
(1) Professor K. G. Subramanyan	(i) Thoughts on Murals	Lalitkala Contemporary, New Delhi, No. 14, April, 1972.
	(ii) The Phenomenon of Abanindranath Tagore	Seminar on Abanindranath, Santiniketan.

- (2) Dr. Ratan Parimoo
- (i) Cubism, World Art and Indian Art Roop Lekha, New Delhi, Vol. XL, No. 1 and 2, 1972.
 - (ii) The Chronology of the Paintings of Gaganendranath Tagore "Chhavi," Golden Jubilee Publication, Bharat Kala Bhawan, Banaras Hindu University.
 - (iii) Modern Mexican Painters as Muralists Lalit Kala Contemporary, No. 14, April, 1972.
 - (iv) Picasso's Guernica Lalit Kala Contemporary, No. 14, April, 1972.
 - (v) Ramkinker as a Painter and Sculptor "Anyamane," Calcutta, Vol. 4, No. 4, February, 1973.
- (3) Shri Gyarasilal Varma and Dr. Ratan Parimoo The Technique of Jaipur Fresco Lalit Kala Contemporary, No. 14, April, 1972.
- (b) Papers presented at All India Level Seminars, Conferences etc.:
- (1) Shri R. T. Parikh
- (i) Forgotten Children and Museums in India Annual General Meeting, Museum Association of India, New Delhi, 17th to 19th October, 1972.
 - (ii) Zekada, a newly discovered Harappan site in Gujarat Annual General Meeting, Archaeological Society of India, Kurukshetra, Haryana.

(c) Participation in In-service and other Programmes:

(1) Shri Mahendra Pandya, Head, Department of Sculpture worked as Convener of the Summer School for Sculpture teachers during the month of May, 1972, sponsored by the Indian Society for Technical Education, Government of India and conducted by the Sculpture Department of the Faculty at Baroda. Sarvashri G. C. Bhatt, R. R. Panchal and Chatpar worked as Instructors at the Summer School.

(2) Professor K. G. Subramanyan has been invited to be on the Editorial Board of "Leonardo", an art Journal published from England.

(3) Shri Jeram Patel, Reader in Applied Arts, has been elected member of the Executive Committee of the Lalit Kala Akademi, New Delhi.

(4) Dr. Ratan Parimoo has been nominated member of the General Council of Lalit Kala Akademi and also of the Indian Commission for Cooperation with UNESCO, Government of India. He was also invited to be a member of the Ad-hoc Committee for framing courses in Painting and Sculpture, Osmania University.

(5) Shri V. C. Shah, Lecturer in Painting, visited the U.S.A. during summer 1972 and held a One-man-show of his paintings at Boston.

(6) Shri Jyoti Bhatt held a one man show of his graphics, Shri Jeram Patel, of his Paintings, Shri G. C. Bhatt of his Sculptures and Shri Gyarasilal Varma, of his masks at Bombay, while Dr. Parimoo held a one-man-show of his paintings in Delhi. Shri V. C. Shah, Shri V. R. Patel, Shri Katpitia, Lecturers in Painting and Shri R. Panchal, Lecturer in Sculpture, held a group show in Bombay. Another group show was held in Bombay by Shri Sheikh, Lecturer in Art History, and Shri Chatpar, Lecturer in Sculpture, along with other Baroda artists.

(7) Works of Sarvashri Jyoti Bhatt, R. Kaneria, R. Panchal, Mahendra Pandya, Jeram Patel, Vinod Ray Patel, Vinod Shah, Gulam Sheikh and Prof. K. G. Subramanyan were included in the exhibition "25 years of Indian Art" arranged by the Lalit Kala Akademi, New Delhi in November 1972.

(8) Shri Jyoti Bhatt was invited to participate in the International Biennale of Graphic Arts held in Freschen, Germany and Florence, Italy. Shri Jyoti Bhatt and Shri V. S. Patel were invited to participate in the Annual Exhibitions of Graphic Art at Hyderabad and Delhi, arranged by Group 8 and they got awards.

(9) Shri Jyoti Bhatt won a Gold Medal at the International Biennale of Graphic Arts at Florence. Both he and Shri V. S. Patel won prizes for designing postage stamps to commemorate 25th anniversary of India's Independence. Shri Jyoti Bhatt's stamp was released on 26th January, 1973. Shri G. C. Bhatt and Shri R. Panchal won prizes in sculpture at the Gujarat State Annual Art Exhibition, Ahmedabad.

(10) Under a JDR 3rd Fund Fellowship, Shri V. H. Bedekar, Head, Department of Museology, visited important museums in Europe, including U.K., and Leister in U.S.A., in Canada and in Japan. His special objectives were to visit and study Museum Training Centres and the educational and Display departments. He also attended a conference of the American Museums Association in Mexico City. Shri Bedekar was appointed member of the Committee of Education of the Ministry of Education, Government of India.

(11) Shri R. T. Parikh, Lecturer in Museology, was elected Vice-President of the Museum Association of India for the years 1972-73 and 1973-

74. He attended the meeting of the National Committee of the International Council of Museums held at New Delhi. He was elected as one of the Zonal Secretaries of the National Committee of the International Council of Museums. He continued to work as member of the Editorial Board of "Studies in Museology".

(d) *Lectures, Talks, Demonstrations etc.*

- | | | |
|---------------------------------|---------------------------------------|---|
| (1) Professor K. G. Subramanyan | The basic norms of Design | The Handicrafts Board Training Camp, Santiniketan |
| (2) Dr. Ratan Parimoo | (i) Paintings of Abanindranath Tagore | Andhra Pradesh Lalit Kala Akademi, Hyderabad |
| | (ii) Modern Indian Sculpture | —Do— |

(e) *Research :*

- (i) Shri V. H. Bedekar has been working on his doctoral thesis on Indian Miniature Paintings.
- (ii) The Painting Department has started work on the research scheme "Documentation of Murals and Frescoes from places around Baroda."

5. Exhibitions and Talks

Following exhibitions were held at the Faculty :

- (1) Drawings by Prof. Ben Norris, Visiting Professor from Hawaii, U.S.A.
- (2) Paintings, Drawings and Photographs by Ian Fergusson, Commonwealth Scholar from England.
- (3) Black Art: Exhibition of Reproductions arranged by U.S.I.S., Bombay.
- (4) Books on Visual Arts, arranged by U.S.I.S., Bombay.
- (5) Silk Screen Prints of Shri B. N. Goswami, Teacher at Birmingham, England.
- (6) Group Show of Paintings and Sculptures by Shri Gulam Sheikh, Shri Bhupen Khakhar, Shri Nagji Patel and Shri Chatpar.

Talks by :

- (1) Slide lecture on Muslim Architecture of Gujarat by Ian Fergusson
- (2) Slide Lecture on Sculptures of Hindu Gods and Goddesses by Brian Morris.

- (3) Lecture on the Indian Independence Movement by Shri Kamalashanker Pandya.

- (4) Richard Bartholomew : Lectures sponsored by U.S.I.S., Bombay :
 - (i) Black Art of America
 - (ii) Modern American Art through the eyes of an Indian Critic.
 - (iii) Modern Indian Painting.

6. Faculty Union Activities

- (1) The Annual Fine Arts Fair was held on 16th and 17th December, 1972. The total collection was Rs. 10,032-85 out of which Rs. 4,000 were contributed towards the State Drought Relief Fund.

- (2) (i) The following students won prizes in various Art Exhibitions during this year.

Mansukh Makwana	}	Painting
Arun Jaiswal		
Narottam Luhar	}	Sculpture
D. Haldakar		
Prayag Jha	}	Graphic
Magan Soma		
Chanda Joglekar		
Anjana Mehra	}	

- (ii) Shri Deepak Kannal was awarded a Prize by the Marathi Vangmaya Parishad for a Literary essay.
- (iii) Shri Janak Jankar Narzary (Sculpture) and Kumari Rini Das Gupta (Painting) were awarded Cultural Scholarships by the Government of India for further study in the Faculty.
- (iv) Shri Manu Parikh held a one-man-show of Paintings at Bombay. Kumari Roopkoshla Desai, Shri M. R. Ranjan and Mr. Ian Fergusson of Painting Department and Shri Ashok Shah of Graphic Arts Department held a group show at Fertilizer Nagar, Baroda.

- (3) The Faculty staff and students participated in the blood donation campaign arranged by the Friend's Society and won the Shield for the year.

- (4) The Faculty conducted a study tour to Badami Aiholi Pattadakal and Bijapur.

- (5) The Department of Museology arranged extra curricular lectures by Shri Pandya, Head, Department of Sculpture, and Shri O. P. Agrawal, Chief Chemist and Head, Central Conservation Laboratory, New Delhi, on different aspects of museum studies and collections.

7. Library

(A) Books :

The Library received a grant of Rs. 4,000/- from the University and it has been fully utilised. The following statement gives the details of the acquisitions of the library during the year 1972-73.

	Books (including back number of Journals	Pamphlets	Total value in Rs.
(1) Number at the beginning of the year	5,551	94	91,603-83
(2) Number added during the year	242	—	3,999-25
(3) Number withdrawn from the record	—	—	—
(4) Number at the end of the year	5,793	94	95,603-08

(b) Periodicals:

The total number of periodicals and journals subscribed to stood at 15, while the amount spent for this purpose was Rs. 1,938-56 P. The amount spent for binding was Rs. 469-15.

(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:

- (i) Average number of students making use of the library 45
- (ii) Average number of teachers making use of the library 12
- (iii) Average number of books issued per day for home-reading 15
(To the staff members and Post-graduate students)
- (iv) Average number of books issued per day for reading on 40
the premises

8. Museum, Laboratory, Studios, Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1972	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1973
		Rs.	Rs.	Rs.	Rs.
(1)	Studios and Workshops	3,85,290-90	—	6,784-10	3,92,075-00
(2)	Museology Department	62,381-84	—	—	62,381-84

Collection and the Archive of the Art History Department:

- (a) The following original art objects were added this year at a total cost of Rs. 1,000/-:
 - (i) One folk scroll painting of Bengal, (ii) 4 folk metal objects, (iii) One item of wood-carving and two graphics by Devraj and Gauri Shankar.
- (b) Nearly 900 slides of Indian and European Painting, Sculpture and Architecture were purchased bringing the total to about 7,500 slides.
- (c) About 1,000 colour reproductions and photographs were added this year bringing the total to nearly 9,000.

9. Visitors

- (1) Dr. Karan Singh, Minister of Tourism and Civil Aviation, Government of India.
- (2) Mr. Portor Mcray, Director, J. D. Rockefeller 3rd Fund, New York, U.S.A.
- (3) Prof. Ben Norris, a leading Painter and a distinguished teacher of Art, University of Hawaii (U.S.A.) was invited as a Visiting Professor under the scheme of the Tagore Chair from 21st November, 1972 to 5th January, 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
- (4) B.Sc. (Home) General Home Science

New Courses 'Household Equipment' and 'Popular Audio-Visual Educational Media' were introduced at the 3rd year level in the Home Management Department and Home Science Education and Extension Education Department respectively.

In the context of the new Equipment Course introduced at the 3rd year level, the Equipment Course offered at the 4th year level in the Home Management Department was revised and modified.

A revised programme of studies in Education was implemented in the 3rd year class in the Department of Home Science Education and Extension Education.

2. Number of Students

Class	Men	Women	Total
(1) B.Sc. (Home)			
(i) First Year	—	174	174
(ii) Second Year	—	180	180
(iii) Third Year	—	193	193
(iv) Fourth Year	1	150	151
(a) Child Development	—	13	
(b) Foods and Nutrition	1	46	
(c) Clothing and Textiles	—	20	

		Men	Women	Total
(d) Home Management	—	30		
(e) Education and Extension	—	7		
(f) General Home Science	—	34		
	1	150		
	Total	1	697	698
(2) Post-graduate Diploma				
(a) Nursery School Education	—	17	17	
(b) Dietetics	—	18	18	
	Total	—	35	35
(3) Junior M.Sc. (Home)	2	41	43	
(a) Child Development	—	4		
(b) Foods and Nutrition	—	10		
(c) Clothing and Textiles	1	14		
(d) Home Management	—	6		
(e) Education and Extension	1	7		
	2	41		
	Total	2	41	43
(4) Senior M.Sc. (Home)	—	34	34	
(a) Child Development	—	7		
(b) Foods and Nutrition	—	8		
(c) Clothing and Textiles	—	7		
(d) Home Management	—	5		
(e) Education and Extension	—	7		
	—	34		
	Total	—	34	34
(5) Ph.D.	1	10	11	
(a) Child Development	—	5		
(b) Clothing and Textiles	1	4		
(c) Foods and Nutrition	—	1		
	1	10		
	Total	1	10	11
Grand Total		4	817	821

50 students of the Faculty received post-graduate fellowships and/or undergraduate scholarships from the Faculty, various State Governments, Government of India (Colombo Plan, Commonwealth), I.C.A.R., UNICEF, USAID, and other sources.

3. Staff

(a) Present Position:

The staff of the Faculty consisted of 3 Professors (one of them is in the senior scale), 7 Readers, 20 Lecturers, 18 Assistant Lecturers, 2 Research Associates, 15 Class III and 25 Class IV employees. The Faculty continued to receive help of the teaching staff of other Faculties for teaching various courses in the Faculty.

(b) New Appointments:

Smt. Mrunalini Paur, Lecturer in Foods and Nutrition

(c) Teacher upgraded to Higher Posts:

The following Assistant Lecturers were upgraded and appointed as Lecturers:

(i) Smt. Asha Das, Lecturer in Home Management

(ii) Dr. A. R. K. Das, Lecturer in Biology

Dr. (Kumari) Nalini Ogale, Lecturer in Home Management was upgraded and appointed as Reader in Home Management.

(d) Teacher who left the University:

(i) Kum. Sunita B. Patel,
Lecturer in Foods and Nutrition

Went to U.S.A.

(ii) Dr. (Kum.) L. S. Saraswathi,
Lecturer in Education and Extension

Left for personal reasons

4. Professional Growth of the Staff

(a) Publication of Books

Name	Title	Where Published
(i) Staff of the Child Development Department	A Survey Book for Pre-School Education	Jointly published by the Department of Child Development & Baroda Branch of I.A.P.E. October, 1972.
(ii) Kum. Savitri Pandit	Personal growing selection and care of clothes	Unity Printers, Baroda, October, 1972.
(iii) Prof. (Kum.) Justina A. Singh	Basic blouse paper patterns	Ishit Printers, Baroda, November, 1972.

(b) Papers read or presented:

Name of the Teacher	Conference/Seminar	Title of the Paper
(i) Prof. (Smt.) Amita Verma	(i) I.A.P.E. Conference, Bangalore	An Analysis of Teacher Training facilities for Pre-School Teachers.
	(ii) National Seminar, Bangalore	Pre-School Education.
(ii) Dr. (Smt.) P. Phatak	All India Paediatrics Conference, Trivendrum	Application of B.S.I.D. retired logical cases.
(iii) Smt. Parul Dave	National Seminar, Bangalore	Adjustment process in infants.
(iv) Kum. Nila Bhatt	National Seminar, Bangalore	Food preferences of Pre-School Children.
(v) Prof. (Kum.) Justina A. Singh	All India Home Science Conference, Trivendrum	A new approach to clothing construction utilisation of paper patterns. Also conducted a workshop on teachings of clothing construction during the conference.

(c) Participation in In-service Programmes:

Name of the Teacher	Programme	Capacity
(i) Smt. K. Parlikar	National Integration under UNESCO and Samanvaya, Bombay at the Alembic Vidyalaya, Baroda	Convener
(ii) Prof. (Kum.) P. S. Chari	(i) Workshop on 'Developing a Course of Study in Home Management' for College Teachers at Trivendrum	Director
	(ii) Session for presenting research papers in Extension Education. All India Conference of the Home Science Association of India at Trivendrum	Chairman

Name of the Teacher	Programme	Capacity
(iii) Prof. (Smt.) Amita Verma	(i) Baroda Branch of I.A.P.E.	Vice-President
	(ii) Executive Committee of the Gujarat Council for Child Welfare	Nominee
(iv) Kum. Kiran Parekh	National Executive of the I.A.P.E.	Member

(d) Research Work:

Kum. Kiran Parekh and Smt. Aruna Dave	Preparing K. G. Children for first grade	Research completed.
---------------------------------------	--	---------------------

5. Faculty Union Activities

The Departments of Clothing and Textiles, Home Management and Home Science Education and Extension arranged one Exhibition for collection of funds for the Drought Relief Fund. The Faculty also staged two shows and arranged one film show for the Drought Relief Fund.

6. Library

The Faculty Library is 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 the Magazines and Periodicals which are scientific and general in nature.

7. Museum Laboratory, Studios, Workshop etc.

Cost of equipment as on 1-4-1972	Cost of equipment etc. written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1973
Rs.	Rs.	Rs.	Rs.
4,81,335-06	—	19,464-76	5,00,799-82

8. Visitors

Visitors	Dates of Visit
(1) Dr. (Mrs.) De Silva and (Miss) Gonzalez, Members of the Ceylon Home Science study team	18-4-1972

Visitors	Dates of Visit
(2) Shri Mukherji and Others from ICSSR, New Delhi	5-12-1972
(3) Dr. Marjorie East, President of the American Home Economics Association	5-1-1973
(4) Dr. Fleming R. Kittrell, Dean, Howard University, Washington	22-12-1972 to 5-1-1973
(5) Dr. Mary Frances Reed, Illinois University, U.S.A. Washington	1-3-1973 and 2-3-1973
(6) Dr. Hans Knop, Pro-Rector, University of Economics Science, Berlin (East Germany)	23-2-1972
(7) Smt. Benvinda Dias, Chairman and Shri S. V. Kanckar, Secretary of State Social Welfare Advisory Board, Goa-Diu-Daman	14-3-1973
(8) Smt. Meena Swaminathan, Secretary, I.A.P.E.	19-3-1973

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. Review of Progress of Reforms Introduced in the Faculty

The Faculty staff and representatives from senior students and Alumni Association jointly worked for the Admission Program for new entrants during the month of June, 1972.

2. New Experiments—Study-Cum-Service Projects

(a) On request of the Director, Social Defence, Government of Gujarat, the Faculty organized Orientation Workshop for Officers in Correctional Administration from 22-10-1972 to 3-11-1972.

(b) Under the joint auspices of the Faculty of Social Work and its Alumni Association, a one-day seminar on 'Social Work and Social Change' was arranged on 3-12-1972, with a view to providing a common platform for practising professional social workers to perceive social change factor in proper perspective.

(c) The Faculty in collaboration of I.C.S.W. (Baroda Branch) celebrated the 'Mental Health Week' in the last week of January 1973. During the period, a seminar on "Multi Disciplinary Approach in Mental Health" was arranged. Experts and persons of eminence in the field participated in the Seminar.

(d) With the help of Government of Gujarat, the Faculty started Trade Union Leadership Programme for Unions' Leaders, office-bearers and workers of registered trade unions in the Gujarat State for a period of 3 months from 15-1-1973.

(e) On a request from the Central Social Welfare Board, New Delhi, the Faculty has undertaken the work of preparing a Directory of Social Welfare Agencies in the State of Gujarat since December, 1972.

(f) A Workshop on Family Planning was arranged in the Faculty in the last week of March, 1973, for senior students. This was organized in view of the recommendation made by the Association of Schools of Social Work in India and co-sponsored by the International Association of Schools of Social Work. The Director, Health and Family Planning, Government of Gujarat, Demographic Research Centre, M. S. University and other organizations assisted in conducting the workshop.

3. Courses of Studies

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

(1) 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.

(2) Field Work (Practical Training):

There are forty-two agencies in and around Baroda City which share in partnership the training programme of the Faculty. The staff and students organised seminars, staff-meetings, discussions and such other activities to further promote the work of the service agency and to equip themselves with up-to-date information on and insight into the problems of the field.

The Faculty continued its community welfare activities at the rural as well urban community centres. A special project on Prevention of Beggary was undertaken in collaboration with NSS volunteers and Agency.

The Faculty continued to get co-operation from agencies in industrial settings. The students carried out useful projects like "Supervisory Practices in Selected Industries" and "A Study of Managements' attitude towards Trade Union". The Faculty is also associated with Workers' Education Centre, Baroda Region. In Medical and Psychiatric setting the Faculty developed school social work services and celebrated "Mental Health Week". These programmes involved a good number of Welfare Agencies and provided a platform for co-operative functioning.

4. Number of Students

The number of students enrolled in junior and senior classes during the year 1972-73 was as under:

	Men	Women	Total
Junior Class	22	19	41
Senior Class	22	19	41
Total	44	38	82

5. Staff

(a) Present Position:

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

(b) Teachers upgraded to higher position :

Smt. P. K. Maitra working as Lecturer, was selected and appointed as a Reader in Social Work.

6. Professional Growth of the Staff

(a) Articles or papers published in Indian and Foreign Journals

Name of the teacher	Name of the paper title	Name of the Journal wherein published
(1) Kum. Indira M. Patel	A learner in Social Work Education	Book; Social Work Curriculum Development and Teaching Association of Schools of Social Work

(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
(1) Kum. Indira M. Patel	Director, Workshop-Family Planning, Bangalore, May, 1972.	Introduction of the objectives and planning of the workshop
(2) Shri I. P. Shelat	All India Conference of NSS Co-ordinators, New Delhi, 22nd to 24th April 1972	Technical aspects of NSS scheme
(3) Kum. Rekha Mukerjee	All India Conference on Probation and allied service, held at Jaipur from 2nd to 4th January, 1973	Training of officers in Correctional Administration
(4) Shri K. M. Sharma	(i) Association of Schools of Social Work in India. Seminar on Social Work Education and Family Planning at Bangalore in May, 1972 (ii) Training Directors Conference at New Delhi organised by C.S.W.B, July, 1972	Multi disciplinary approach to Family Planning and challenges to social work education Review of the Training programme for F. and C. Welfare workers

(c) Talks given at Universities/other organisations

Name of the teacher	University/organisation	Subject of the lecture
(1) Kum. Indira M. Patel	(i) Indian Institute of Management Ahmedabad, December, 1972 (ii) Kashi Vidya Peeth, Varanasi, February, 1973 (iii) Indian Petro-Chemical Ltd., Baroda	Trade Union Leadership Social Work Education Group dynamics and productivity
(2) Shri B. J. Pandya	Gujarat University	N.S.S. (Baroda Project)
(3) Smt. P. Maitra	Hospital for Mental Diseases, University of Ranchi	Problems and challenges in the field of Psychiatric Social Work
(4) Shri K. M. Sharma	Youth camp at Abu organised by Sahwney Leisle Foundation	Role of Youth in Social change

(d) Participation in Inservice Programme :

Name of the teacher	Programme, Place and Dates	Capacity in which participated
(1) Shri G. S. Vaswani	Training programme for Trade Union Leaders, Baroda, 15th January till end of March, 1973	Training Co-ordinator
(2) Smt. P. Maitra	Training programme for Trade Union Leaders, Baroda, 15th January till end of March, 1973.	Lecturer
(3) Kum. R. Mukherjee	Two week orientation course for officers in correctional administration in the State of Gujarat organised by the Faculty of Social Work and Director of Social Defence, Baroda. 22nd October to 3rd November 1972	Director

(e) Research work :

Name of the teacher	Research work completed
(1) Kum. Indira M. Patel	(i) Directory of Social Welfare Agencies in Gujarat State. Data collected on behalf of Central Social Welfare Board, New Delhi
(2) Smt. P. Maitra	(ii) Member of the Committee Status of women in India. Mental disorders in Urban and Rural areas-A socio-Psychiatric study.
(3) Kum. R. Mukherjee	A study of the conflicts of the Adolescent students in relation to parental norms and the behavioural manifestations of their projects. (P.L. 480 Project)

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

The Faculty organised a certificate course in Trade Union Leadership from 15th January to 15th April, 1973. The course was sponsored by the Government of Gujarat. In this course 20 Trade Unionists from blue and white collar unions from Gujarat State participated. The objectives of this programme were to help the participant in developing the necessary awareness and skills to adopt a professional approach to their tasks and to acquaint them with various techniques of management of Trade Unions. The Faculty was drawn from the M. S. University of Baroda, Trade Union Leaders from all over India, executives from industry, Labour Lawyer and other educational institutions.

8. Library

(A) Acquisition Notes :

(i) 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 acquisitions 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			
(2) Number added during the year	8,056	2,550	82,288-67
(3) Number written off	256	—	6,000-00
(4) Number remaining at the end of the year	8,312	2,550	88,288-67

(B) Periodicals :

The total number of periodicals subscribed to by the library during the year stands at 42. An amount of Rs. 1,500/- was spent on subscription.

(C) Circulation of Books :

The library remained open from 8-00 a.m. to 6-00 p.m. on week days and 8-00 a.m. 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) Daily average number of teachers visiting the library	5
(3) Average number of books issued per day	80
(4) Average number of books issued per day for reference	50

9. Visitors

	Date of Visit
(1) Shri S. K. Majmudar, Director, B. M. Institute, Ahmedabad	18-9-1972
(2) Shri Manubhai Pancholi, Lok Bharti, Sanosara, Bhavnagar	3-10-1972
(3) Shri Ishwar Pétlikar, Writer and Voluntary Social Worker, Ahmedabad	6-10-1972
(4) Shri K. D. Gangrade, Head, Delhi School of Social Work, Delhi-7	6-10-1972
(5) Swami Rangnathanandaji, Shri Rama Krishna Mission, Calcutta	6-1-1973 to 8-1-1973
(6) Dr. Baldev Sharma, Professor, Indian Institute of Management, Ahmedabad	17-2-1973
(7) Dr. Druker of Bangkok, Social Department, Division of ECAFF and U. N. Children's Fund (Unicef) East Asia and Pakistan Region	7-3-1973

10. 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

Two Orientation Courses of 3 months duration each for Family and Child Welfare Project teams were conducted in May-July and September-December. In these two courses 75 women workers were trained.

All the five teachers conducting the above training programmes visited the training centres in India, conducted workshops for official and non-official workers in Gujarat, Maharashtra and Goa States. They also helped in organising and conducting two seminars—one in Ahmedabad (Gujarat) and the other in Poona (Maharashtra) for members of Functional Committee Family and Child Welfare projects. They conducted Teaching Material Development Workshops in February-March, 1973 and helped in working out detailed manuals for teaching at 5 centres—Baroda (Gujarat), Gandhigram (Tamilnadu), Santiniketan (West Bengal), Allahabad (U.P.) and Jamia (Delhi)

(2) Panchayati Raj Training

Under this programme, the following courses were organised :

Name of the Course	Duration	Number of trainees	
		Men	Women
(i) Pre-service Basic Training for Village Panchayat Secretaries	6 Months (one course)	35	—
(ii) Refresher Courses for V.P. Secretaries	3 Weeks (4 courses)	148	—
(iii) Peripatetic Courses for V.P. Office Bearers	3 days (4 camps)	167	—

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

Two teachers viz. Sarvashri K. N. Desai and A.H. Pandya attended a training course of Panchayat Raj Teachers at the Orientation Training Centre at Junagadh.

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

- (i) Shri Ratubhai Adani, Minister for Rural Development, Gujarat State
- (ii) Shri M.C. Nanavaty, Adviser, Social Welfare, Government of India

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 course leading to the degree of Master of Laws (LL.M.) has been revised since this academic year i.e. 1972-73 and has been split up in 2 parts viz: LL.M.—Part I and LL.M.—Part II consisting of 3 papers in each part and compulsory examination for each part every year. Without passing LL.M.—Part I examination the student cannot be promoted to LL.M.—Part II.

Optional Courses at the LL.B. (General)

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

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)	380	54	434
(b) 2nd LL.B. (General)	111	12	123
(c) LL.B. (Special)	51	5	56
Total :	542	71	613

Class	Men Students	Women Students	Total
(2) <i>Post-graduate Diploma Courses :</i>			
(a) Diploma in Taxation Laws and Practice (D.T.P.)	139	9	148
(b) Diploma in Labour Laws and Practice (D.L.P.)	50	11	61
Total :	189	20	209
(3) <i>Post-graduate Degree Courses :</i>			
(a) LL.M. Part I	27	5	32
(b) LL.M. Part II	30	2	32
Total :	57	7	64
(4) <i>Ph.D.</i>	1	—	1
Grand Total :	789	98	887

3. Staff

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

Shri N. N. Buch, Lecturer in Law was selected and appointed as Reader in Law in July, 1972.

4. Professional Growth of the Staff

(1) Professor H. C. Dholakia has been appointed, by the Government of India, as a member of the Central Official Language Legislative Commission, New Delhi.

(2) Professor H. C. Dholakia's appointment as a member of the State Official Language Legislative Commission has been renewed by the Government of Gujarat.

(3) Professor H. C. Dholakia has been entrusted by the University Grants Commission the preparation of a book on Constitutional Law of India. Shri S. N. Parikh has been working as U.G.C. Fellow for the purpose.

(4) The following teachers of the Faculty attended the Conference, Seminar, etc. mentioned against their names

Name	Conference/ Seminar	Paper Read or Presented
(i) Prof. H. C. Dholakia	(i) Seminar for Law Teachers organised at Saurashtra University.	Objective of Legal Education.
	(ii) Seminar on 'Socio-legal aspects of Labour Laws' organised at Kurukshetra University.	Socio-legal Research.
	(iii) All India Law Teachers' Conference at Delhi University.	Law Schools in the programme of legal aid.
	(iv) Seminar on Legal Aid held at New Delhi.	Clinical Legal Education: Prospects and Problems.
	(v) Seminar on Constitutional Law at the Indian Law Institute, New Delhi.	Constitutional Amendments.
(ii) Shri N. N. Buch	All India Law Teachers' Conference at Delhi.	Curriculum Reform in Legal Education.

5. Lectures

The Faculty invited the following experts to deliver lectures :

Speaker	Subject
(1) Justice Shri M. P. Thakkar, Judge, High Court of Gujarat	Constitutional Law
(2) Justice Shri B. K. Mehta, Judge, High Court of Gujarat	Company Law
(3) Dr. I. C. Saxena, Assistant Dean, Faculty of Law, University of Rajasthan, Jaipur.	Law of Contracts (6 lectures)

Speaker	Subject
(4) Shri Girishbhai Patel, Member, Law Commission of Gujarat State	Fundamental Rights (4 lectures)
(5) Professor Narendra Singh, Dean, Faculty of Law, Jabalpur University.	Constitutional Law (2 lectures)
(6) Shri Dinkarray D. Desai, Principal, City Law College, Ahmedabad.	Company Law (2 lectures)

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 a good record of publications-109 volumes in the Gaekwad Oriental Series and 516 other books. The number of publications at the end of March, 1973 stood at 156 in the Gaekwad Oriental Series and 603 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 'Svadhyaaya' (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 Shishujnanamala.

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 1 Ph.D. student and 49 M. A. students (Part I-II) (Principal and Subordinate). The teaching of Prakrit as a subordinate subject at B. A. and M. A. level was introduced before nine years by the University and Shri J. P. Thaker of this Institute has been teaching Prakrit at the Post-Graduate level since then. During the year of this report he taught the subject to two students (M. A. Part I). The Director also worked as 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.

4. Professional Growth of the Staff

(a) Publication by members of the staff:
Articles :

Sr. No.	Author	Title	Where published
(1)	Professor B. J. Sadesara	Political and Cultural History of Gujarat	
		(i) Volume III Chapter 10 સામાજિક અને ધાર્મિકસ્થિતિ Chapter 13 : ધર્મસંપ્રદાયો	B. J. Institute of Learning and Research, Ahmedabad
		(ii) ગુજરાત અને ગુજરાતીમાં ભાષાશાસ્ત્ર	ગુજરાતી સાહિત્ય પરિષદ, મદ્રાસ અધિવેશન સ્મરણિકા.
		(iii) ગાથા સાતશતીનો ટીકાકાર આજઢ	સ્વાધ્યાય, પૃ. ૯ અંક ૪, સપ્ટેમ્બર, ૧૯૭૨.
		(iv) પ્રાચીન ભારતમાં વિમાન નવચેતન, ઓક્ટોબર, ૧૯૭૨.	
		(v) Ajada's Commentary on the Gathasaptasati of Hala (Paper presented before the Prakrit and Jainism Section of the All India Oriental Conference, 26th Session, Ujjain, October, 1972)	Journal of the Oriental Institute, Baroda Vol. XXII, Nos, 1-2 (Sept.-Dec., 1972)
		(vi) ગુજરાતી ભાષાની શક્તિ અને અભિવ્યક્તિ	અલંકાર આનંદ, ઓક્ટોબર ૧૯૭૨
(2)	Dr. U. P. Shah	(i) A Jaina Bronze in Virginia Museum	Oriental Art, Vol. XVIII, No. 3 (Autumn, 1972)
		(ii) ગુજરાતનાં બે પ્રાચીન શિલ્પો	સ્વાધ્યાય, પૃ. ૯, અંક ૪, સપ્ટેમ્બર, ૧૯૭૨
		(iii) Yaksino of the Twenty-fourth Jina Mahavira	Journal of the Oriental Institute, Vol. XXII, nos. 1-2 (Sept. Dec., 1972)
		(iv) રામવનવાસની ભૂગોળ અને લંકા	સ્વાધ્યાય, પૃ. ૧૦ અંક ૧.

Sr.No.	Author	Title	Where published
		(v) Sabda-Vilasa or Parasina-mamala of Mantri Salaksa and Mahipakosa of Saciva Mahipa	સંવોધી, અમદાવાદ
		(vi) Dr. Moti Chandra —A Tribute and an appreciation	Dr. Moti Chandra Felicitation Volume
		(vii) Western Indian Sculpture and the So-called Gupta Influence	Aspects of Indian Art—A Report of Seminar held at Los Angeles, U.S.A.
		(viii) Beginning of Jaina Iconography	Bulletin of the Museum and Archaeology in U.P., Vol. IX, June, 1972
		(ix) A Rare Bronze of Pralambapada Buddha from Saurashtra	Lalit Kala, No. 15
		(x) Hinduism and World Faith	Pandit Charudatta Shastri Felicitation Volume
(3)	Shri J. P. Thaker	(i) મૃગપક્ષિશાસ્ત્ર-મહત્વનિરૂપણ	સ્વાધ્યાય, પૃ. ૧૦ અંક ૨.
(4)	Dr. B. N. Bhatt	The Position of 'Stutikusumanjali' in Sanskrit Stotra-Literature	Journal of the Oriental Institute Vol. XXI, No. 4, June 1972
(5)	Shri P. H. Joshi	(i) Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 21, No. 4, and Vol. 22 Nos. 1-2
		(ii) Slokas and Gathas quoted in the Brahmana Literature	Journal of the Oriental Institute, Vol. 21, No. 4

Books :

Sr. No.	Author	Title	Publisher
(1)	Professor B. J. Sandesara	(i) सत्तरमा शतकर्ना प्राचीन गुर्जर काव्य (Second edition)	Gujarat Vidya Sabha, Ahmedabad
		(ii) गंगाधरप्रणीत गंगादास प्रतापविलास नाटकम् (Gaekwad's Oriental Series, No. 156)	Oriental Institute, M. S. University, Baroda
		(iii) अमृतकलशकृत हम्मीरप्रबन्ध (in collaboration with Dr. S. D. Parekh (Prachina Gurjara Grantha-mala, no. 11)	Gujarati Department, Faculty of Arts, Baroda
(2)	Dr. U. P. Shah	Uttarakanda, Fascicule-1	Oriental Institute, M. S. University of Baroda, Baroda.

(b) Participation in various Programmes :

(1) Professor B. J. Sandesara was nominated by the Executive Committee of the National Academy of Letters, as a member of their Advisory Board of Gujarat for a period of five years. He continued to work as member of the University Book Production Board for the State of Gujarat and also as a member of the Editorial Board of the 'Gnan Gangotri' being published by the Sardar Patel University.

(2) Dr. U. P. Shah delivered the following lectures or read papers :

Place	Date	Subject
(i) All India Oriental Conference, Ujjain	26-10-1972 to 28-10-1972	(i) A rare Sculpture from North Gujarat (ii) A bronze figure of Ambica from Mudabidri
(ii) Seminar on North Indian Terricottas, State Museum, Lucknow	24th and 25th January, 1973	(i) Terricottas from Devni Mori (ii) Terricottas from Gujarat

Place	Date	Subject
(iii) L. D. Institute of Indology, Ahmedabad	22-2-1973	Some new documents of Western Indian paintings and Gujarati paintings of the Sixteenth and later Centuries.
(iv) Museum and Picture Gallery, Baroda	9-3-1973	Some new documents of Jain and Gujarati paintings.

Dr. Shah continued to work as Honorary Editor of the Journal of the Indian Society of Oriental Art, Volume IV—Dr. V. S. Agrawala Memorial Volume. He is appointed member of the Governing Body of the L. D. Institute of Indology, Ahmedabad and of the (Government of Gujarat) Committee for Purchase of Antiquities, etc. for display in the State Government museums. He guided Dr. Michael Meister on his research on 'Architecture of Temples of Osia in Rajasthan and some temples of Madhya Pradesh'.

(3) Shri J. P. Thaker read a research paper on 'The Interpretation of the Uttaradhyayanasutra III 12' at the Seminar on Prakrit Studies organised by the Gujarat University at Ahmedabad from 22nd to 26th March, 1973.

(4) Some exhibits of the Institute were displayed at the exhibition arranged by the National Museum, New Delhi on the occasion of International Sanskrit Conference in March-April, 1972.

5. Manuscripts Section

This section has a collection of 25,456 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsha and other Classical Indian Languages and in several Modern Indian Languages including a few in Persian and Arabic. Of these 50 were added during the year, out of which 45 were purchased and 5 were received as gift from (i) Puja Amma, Gurudeva Ashram, P.O. Vajreshvari, Maharashtra, (ii) Shri Chandrakant R. Pandya, Baroda, (iii) Shri Vaidya Dhirajlal Maneklal Shah, Baroda, and (iv) Smt. Kamalaben Maneklal Jani, Baroda.

During the year, 30 manuscripts were lent out to other Institutions, 66 to local scholars and 364 were issued for work on the premises of the Institute, while 5 manuscripts were borrowed from outside.

6. Printed Books Section

The institute has a well-equipped library having a collection of 34,723 books.

(1) Books:

This year the library received a grant of Rs. 11,500 for Printed Section and Rs. 700 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	Total value in Rs.
Total number of volumes of the year	34,145	3,36,181-46
Number added during the year	578	11,493-46
Total:	34,723	3,47,674-92

Out of the total number of books added during the year, 204 books were purchased at the cost of Rs. 11,493-46 and 374 books were received as gift and/or on exchange basis.

(2) Periodicals:

The total number of periodicals and scholarly journals subscribed for and received on an exchange basis now stands at 220 (213 exchange and 7 subscribed).

7. Publications

Gaekwad Oriental Series:

Editing and publication of the series is one of the main activities of this Institute. Uptil now 156 volumes have been published under this series. The following works are printed during the year:

- (1) Chhakkammuaeso by Shri M. C. Modi
- (2) Gangadasapratapavilasa Natakam by Dr. B. J. Sandeera and Pandit Amritlal Mohanlal
- (3) Sabarabhasya, Vol. I (Printed by Photo-offset method)

The following works are under print:

- (1) Krtiyakalpata (Pratishthakanda) edited by Shri K. V. Rangaswami Aiyangar (pp. 1-24 printed)
- (2) Pancharatra Bibliography (pp. 1-416 printed)
- (3) Satyasiddhi (pp. 1-432 printed)
- (4) Agamapramanya (pp. 1-152 printed)

- (5) An Arabic History of Gujarat, Vol. II (pp. 476-850 printed)
- (6) Yavanajatakam (under print by Photo-offset method)
- (7) Sabarabhasya, Vols. II, III (under print by Photo-offset method).

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

8. Translation Branch

The following works were published during the year:

Shri Sayaji Sahityamala:

- (1) अखो अने मध्यकालीन सन्तपरंपरा : by Dr. Y. J. Tripathi
- (2) श्रीमद् भागवत, भाग २ : by Late Shri N. A. Pandya

The following works are under print:

Shri Sayaji Sahityamala:

- (1) चरकनो स्वाध्याय : by Shri B. G. Vaidya
- (2) कहेवत कथानको : by Swami Shri Pranava-tirthaji

Shri Sayaji Balajnanamala:

- (1) आकाशना दीवा : by Shri Rajnikant Modi

Matushri Jannabai Smarak Granthamla:

- (1) माता बालक संबंध : by Smt. Vatsala Mehta

9. Ramayana Department

(a) Editorial Section:

- (1) Uttarakanda: (Edited by Dr. U. P. Shah)

(i) Complete Critical text of the Uttarakanda is constituted and edited by Dr. U. P. Shah

(ii) Pages 217 to 432 (Sarga 77) printed. (Fascicle 1 upto 288 published)

(iii) Press copy sargas 78 to 89 sent to the Press

(iv) Press copy sargas 90 to 92 prepared

(v) Rough copy of the Critical Apparatus of Appendices Nos. 1-13 prepared.

(b) Copied the Ramayana, MS No. 1199 Commentary of Mahesvaratirtha Uttarakanda with another MS No. 417 Vis I containing of the institution consisted of a Prin-

(c) A concordance of the Criticypakas, 2 Class III and 4 Class IV em-Gorresio and Lahore editions Sarga Critical Edition, for the Intro-

(d) Indexing of quarter verses of the Critical Edition of the Valmiki Ramayana was continued and nearly 9,000 cards were prepared during this year making a total of 1,42,674, cards prepared till the end of the year. Further work is under progress.

10. Journal of the Oriental Institute

During the year Vol. 21 Nos. 3 and 4 and Vol. 22 Nos. 1 and 2 were published. 140 subscribers were registered during the year for Vol. 21 and 194 copies were sent on exchange basis. The journal is specially devoted to research studies in Indology and also includes studied papers on Ramayana and allied topics concerning epics and puranas.

11. Gujarati Quarterly Journal 'Svadyaya'

Nos. 3 and 4 of Vol. IX and Nos. 1 and 2 of Vol. X were published during the year. 144 subscribers were registered during the year for Vol. IX and 34 copies were sent on exchange basis.

12. Visitors

Sr. No.	Name of the Visitor	Date of Visit
(1)	Mr. John G. Sommer, Assistant Representative to the Ford Foundation, New Delhi.	16-6-1972
(2)	Shri Gordhandas R. Chokhawala, Minister for Education and Social Welfare, Gujarat State, Gandhinagar.	21-6-1972
(3)	Swami Shivanandagiri Sholanandagiri, Sanyasa Ashrama, Haradwar (U.P.)	9-10-1972
(4)	J. Ahmad, Professor of History, University, Patna	13-11-1972
(5)	Krtyakalpataru (Pratishtan) Staff Aiyangar (pp. 1-24 printed)	13-11-1972
(6)	Pancharatra Bibliography (pp. 1-32 printed)	
(7)	Satyasiddhi (pp. 1-432 printed)	
(8)	Agamapramanya (pp. 1-152 printed)	

Sr. No.	Name of the Visitors	Date of Visit
(6)	Shri Biswanarayan Shastri, 65, North Anuup, New Delhi	17-11-1972
(7)	Mr. Moinul Huq Chaudhury, Member, Journal of Asiatic Society, Asiatic Society of Bangla Desh, Dacca-2	15-12-1972
(8)	Dr. Suresh Avashti, Secretary, Sangeet Natak Academy, New Delhi	15-12-1972
(9)	Dr. J. Jordens, Reader, Department of Asian Civil, Australian National University, Canberra 2600, Australia	5-1-1973
(10)	Dr. Hans Knop, Pro-Rector, University of Economics Sciences, Berlin	21-2-1973
(11)	Shri N. K. Devaraju, Senior Professor and Director of Advanced Study in Philosophy, Banaras Hindu University, Varanasi-5	7-3-1973
(12)	Mrs. Harriette J. Brown, Researchist-Greaver, P. B. 334, Lancaster, New Hampshire, U.S.A.	14-3-1973
		1
		2
		8
		2
		99
		15
		114

The institution consisted of a Principal, 2 Class III and 4 Class IV em-

CHAPTER XIX—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

1. Courses of Studies

The College offers the following courses:

- (i) Two year Post-graduate course leading to the Degree of Master of Music (M.Mus.) in Music, Dance and Dramatics.
- (ii) Four year course leading to the Degree of Bachelor of Music (B.Mus.) in Music (Vocal) and Instrumental (Sitar, Violin and Tabla), Dance (Kathak and Bharat Natyam) and Dramatics.
- (iii) Five Year course in Music—Vocal, Instrumental—Sitar, Violin and Tabla—leading to Diploma in Music, Diploma in Dancing—Kathak and Bharat Natyam.
- (iv) Two year Post-S.S.C. Course leading to Diploma in Dramatics.

2. Number of Students

Sr.No.	Year/Class	Men	Women	Total
(1)	<i>Diploma Courses:</i>			
	1st Year Diploma	193	133	326
	2nd Year Diploma	66	84	150
	3rd Year Diploma	44	53	97
	4th Year Diploma	20	34	54
	5th Year Diploma	24	24	48
	Total	347	328	675
(2)	<i>Degree Courses:</i>			
	1st Year B.Mus.	13	15	28
	2nd Year B.Mus.	10	10	20
	3rd Year B.Mus.	4	6	10
	4th Year B.Mus.	10	7	17
	Non-Collegiate	2	3	5
	Total	39	41	80
	<i>The following works are written for Degree Courses:</i>			
(1)	Krtyakalpataru (Pratishtha Aiyangar (pp. 1-24 printed)	2	4	6
(2)	Pancharatra Bibliography (pp. 1-100 printed)	2	2	4
(3)	Satyasiddhi (pp. 1-432 printed)	4	6	10
(4)	Agamapramanya (pp. 1-152 printed)	3	2	5
	Total	393	377	770

3. Staff

(a) Present Position:

The staff of the college consisted of 1 Professor, 1 Honorary Professor, 3 Readers, 13 Lecturers, 16 Assistant Lecturers, 1 Temporary Teacher, 5 Part-time teachers, 1 Part-time Ustad, 5 Tabla Accompanists, 10 Class III and 10 Class IV employees.

(b) Teachers upgraded to Higher Positions:

The following Assistant Lecturers were upgraded and appointed as Lecturers:

- | | |
|---------------------------|-------------------|
| (i) Shri P. K. Baruah | Lecturer in Dance |
| (ii) Shri Bharatji Vyas | Lecturer in Music |
| (iii) Shri P. B. Hasurkar | Lecturer in Music |

4. Professional Growth of the Staff

(1) Shri Markand Bhatt, Reader and Head, Department of Dramatics was recipient of the award of the Gujarat State Academy Meritorious Services, as Actor, Director and Teacher in the field of Theatre Arts in Gujarat, in March, 1973.

(2) Shri Harivadan J. Parikh, Assistant Lecturer in Dramatics was given an Award for his contribution in teaching Dramatics-Craft in Theatre, by 'Triveni' on the occasion of World Theatre Day Celebration on 27th March, 1973.

5. New Activities

Vocal and Instrumental Music Competition Sponsored by the Hari Om Ashram:

For the first time with financial assistance from the Hari Om Ashram Trust, the College organised competitions on All India basis, in North Indian Music—Vocal and Instrumental (String), on 2nd, 3rd and 4th of March, 1973. The medals/prizes awarded to the winners are (i) First Prize in each group worth Rs. 2,144, (ii) Second Prize worth Rs. 1,072 and (iii) Third Prize worth Rs. 536.

6. Faculty Union Activities

(1) The following students of the College won prize in State Youth Festival Competitions held at Gandhinagar, 1972:

Name of the Student	Competition	99	15	114
(i) Shri Harish Gangani	Kathak	—	—	1
(ii) Narayan Bhanwaria	Sitar	2	8	—
(iii) Shri Ramakant Sant	Tabla	—	2	—

The staff of the institution consisted of a Principal, 1 Professor, 1 Honorary Professor, 3 Readers, 13 Lecturers, 16 Assistant Lecturers, 1 Temporary Teacher, 5 Part-time teachers, 1 Part-time Ustad, 5 Tabla Accompanists, 10 Class III and 4 Class IV employees.

- (2) Three students of the College were also doing their B.Ed. course in the Faculty of Education and Psychology won first prizes in the University Youth Festival Competitions—(i) Vocal Music, (ii) Kathak Dance and (iii) Drama.
- (3) The following past students of this college participated in the Hari Om Ashram sponsored Music Competitions held in March, 1973 and won prizes:

Name of the Winner	Competition	Medal/Prize
(i) Smt. Vasanti Y. Sathe	Vocal Music	Hari Om Ashram Sponsored Pandit Narayan Moreshwar Khare Memorial Gold Medal 1st Prize Rs. 2,144.
(ii) Shri D. K. Bhonsale	Vocal Music	2nd Prize Rs. 536 (Note:—The prize of Rs. 1,072 was divided between two Winners)
(iii) Shri V. G. Sant	Instrumental Music	Hari Om Ashram Sponsored Pandit Ravishanker (Sitarist) Gold Medal—IIInd Prize—Rs. 1,072.

- (4) The students of the Department of Dramatics staged 12 plays during the period between August, 1972 and January, 1973.

7. 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 1-4-1972	6,510	53,137-66
(2) Books written off during the year	—	—
(3) Books added during the year	119	1,999-92
(4) Books as on 31-3-1973	6,629	55,137-58
(5) Journals subscribed during the year	30	1,125-26
(6) Amount spent on binding during the year	—	493-20

The College Library remained open 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	175
(2) Average number of teachers making use of the library and/or the reading room daily	35
(3) Total number of books issued to students during the year	5,640
(4) Total number of books issued to teachers during the year	3,231

8. Museum Laboratory, Studies, Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1972	Cost of equipment etc. written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1973
		Rs.	Rs.	Rs.	Rs.
(1)	Deadstock and Equipment	1,58,769-79	—	3,082-75	1,61,852-54

9. Distinguished Visitors

A group of 12 educationists under the leadership of Mr. C. D. Roberts from the United Kingdom visited this college on 13th November, 1972.

The institution consisted of a Principal, 2 Class III and 4 Class IV em-

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 | (i) Dharma shastra, |
| (Special Pandit Courses) | (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 | (i) Astrology and Astronomy, |
| (Madhyama Kaksha) | (ii) Grammar and Literature (with English upto the S.S.C. standard compulsory for both the branches). |
| (iv) Certificate | (i) Puran, |
| (Prathama Kaksha) | (ii) Rigved Yajniki, |
| | (iii) Shukla Yajurved, |
| | (iv) Yajurved Yajniki (with Grammar and Literature compulsory for all branches). |

in the
Number of Students

of students enrolled in various classes during the year 1972-73

- (1) Books (as on 1-4-1973) *Kaksha Certificate:*

	Men	Women	Total
(2) Books written			
(3) Books added during	33	1	34
(4) Books as on 31-3-1973	16	—	16
(5) Journals subscribed during	8	—	8
(6) Amount spent on binding during	57	1	58

(2) Madhyam Kaksha (Visharad):

(i) Vyakaran Shastra:

	Men	Women	Total
1st Year	4	7	11
2nd Year	2	1	3
3rd Year	2	1	3
4th Year	—	—	—
5th Year	—	—	—

(ii) Jyotish Shastra:

	Men	Women	Total
1st Year	15	—	15
2nd Year	3	—	3
3rd Year	—	—	—
4th Year	—	—	—
5th Year	—	—	—

Total 26 9 35

(3) Uttam Kaksha (Shastri):

(i) Vyakaran Shastra:

	Men	Women	Total
1st Year	—	—	—
2nd Year	—	1	1

(ii) Jyotish Shastra:

	Men	Women	Total
1st Year	1	1	2
2nd Year	2	—	2

(iii) Dharma Shastra:

	Men	Women	Total
1st Year	—	—	—
2nd Year	1	—	1

(iv) Sahitya Shastra:

	Men	Women	Total
1st Year	1	—	1
2nd Year	—	—	—

(v) Shuddhadwaita Vedant:

	Men	Women	Total
1st Year	1	—	1
2nd Year	—	—	—

Total 6 2 8

(5) Vachaspati:

Grand Total 99 15 114

3. Staff

During the year under report the staff of the institution consisted of a Principal, 12 Adhyapakas, 2 Honorary Adhyapakas, 2 Class III and 4 Class IV employees.

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 reading room	65
(2)	Average number of teachers making use of the library and the reading room daily	12
(3)	Total number of books issued to the teachers during the year	350

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

Sr.No.	Particulars	Number	Cost in
(1)	Books (including back numbers of Journals) as on 1-4-1972	5,064	Rs. 19,312-18
(2)	Books written off during the year	5	20-25
(3)	Books added during the year	52	47-66
(4)	Books as on 31-3-1973	5,111	19,339-59
(5)	Journals subscribed during the year	4	46-20
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for Library and Reading Room during the year	—	93-86

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' 1972-73:

Sr.No.	Name of the Contributor	Title
(1)	Shri H. C. Mehta, Principal, Sanskrit Mahavidyalaya, Baroda	युगपुरुषोऽरविन्द
(2)	Shri J. R. Pathak, Adhyapak in Vyakaran Shastra	मीमांसकाभिमतो मोक्षः
(3)	Shri S. Y. Mishra, Pradhyapak in Vyakaran Shastra	काव्यतत्त्वविमर्शः (2)
(4)	Shri L. J. Zha, Pradhyapak in Jyotish Shastra	ज्यौतिषे आयुः
(5)	Shri S. V. Bhattbhatt, Honorary Pradhyapak in Dharma Shastra	शब्दतत्त्वविमर्शः
(6)	Shri P. S. Shukla, Upadhyapak in Yajurved Yajniki	अचः परस्मिन् पूर्वविधौ

Sr.No.	Name of the Contributor	Title
(7)	Shri M. R. Joshi, Adhyapak in English	श्रीमती वरिवका
(8)	Shri B. K. Shastri, Honorary Adhyapak in Shuddhadwaita Vedant	शुद्धाद्वैतम्

6. Literary, Cultural and Other Activities

(i) Extension lectures under auspices of Sharadopasak Mandal:

Sr.No.	Subject	Date	Lecturer
(1)	विवाद ताण्डवम् एकादृष्टिः	12-8-1972	Shri J. R. Pathak

7. Extra Curricular Activities

(1) The institution organised a Kavi Sammelan on 18-2-1973 wherein the young poets of the City of Baroda and the students of the institution gave their recitals.

(2) Elocution competition in Sanskrit was arranged on 27-2-1973. Kumari Rasila V. Panchal won the Silver Medal of Sharadapeeth Jagatguru Shankaracharya Shri Abhinava Sacchidanand Tirthji Maharaja of Dwarka.

8. Important Events

(1) The tenth issue of 'Surbharati', the annual publication of the institution in Sanskrit was published.

(2) The institution received the following donations:

(i) Rs. 300/- from Shri Vipin Charitable Trust for distribution of prizes at the Annual Ceremony Day of the institution.

(ii) Rs. 3,000/- from Shri Babubhai Vithaldas Dalia for instituting a prize (Mahavastra) at the Shastri Examination of the M. S. University of Baroda.

(iii) Rs. 5,000/- from Shrimad Bhagwat Astotarashat Parayanak and Gyan Yajna Samittee for institution of two cash prizes in the subject of Shuddhadwaita Vedant Darshan at the Shastri and Acharya examinations of the M. S. University of Baroda, in the name of Bhagavadiya Shri Naraharilal Akolkar Maharaja.

(3) Shri Laxminarayan R. Purohit has been awarded the degree of Vachaspati for his research thesis on 'The Literary Study of Champu Bharata' in Sanskrit.

(4) Goswami Shri Vrajbhushanlalji Maharaj of Kankaroli visited the institution on 3-7-1972.

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/Geography (For Arts) Commercial Geography (For Commerce)

2. Number of Students

The number of students enrolled in different classes in the year 1972-73 was as under:

Class	Men	Women	Total
(1) Preparatory Courses in Arts	440	290	730
(2) Preparatory Courses in Commerce	570	270	840
Total	1010	560	1570

3. Staff

There are on the staff of the Unit, 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 the various Departments participated in Preparatory Unit teaching work.

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 to the total of the cost of about Rs. 1000. Books are selected particularly suited to the capacity of the Preparatory students in English, Indian Language, Social Studies, Science, etc.

5. Co-curricular and other Activities

An 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. Two extra mural lectures on 'Vartaman Shikshana Pravaho' and 'What man has made of Man' were given by Principal Mehta of Surat and Professor Umarwadia of Porbunder.

The students of the Unit participated in various activities such as debates, sports, cultural programmes, NCC, NSS, etc. The Unit Students' Association contributed a sum of Rs. 1001/- towards the Drought Relief Fund.

CHAPTER XXII—PREPARATORY UNIT—SCIENCE

1. Courses of Study

The Preparatory Unit for Science was detached from the Preparatory Unit for Arts, Science and Commerce and started its independent working from 1st May, 1965. The Unit provides instructions in Preparatory Science Course of one year's duration.

2. Number of Students

During the year there were 891 men students and 164 women students. The total number of students was 1055.

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 staff members 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. Other Activities

(1) At the commencement of the first term of the academic year 1972-73 an Orientation Programme was arranged in the Auditorium of the General Education Building from 19th to 26th June, 1972 in two groups.

(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 on 29th July, 1972.

(3) Under the scheme of Extra Mural Grant, the following Professors were invited to give lectures:

	Name	Date	Subject
(a)	Dr. N. N. Murti, Ex-Professor and Principal, Ramniranjan Jhunjhunwala Art and Science College, Bombay	22-12-1972	Zoology
(b)	Dr. M. H. Vasavada, Professor and Head, Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar	6-2-1973	Some problems in Mathematics

(4) Students of the Unit participated in various sports activities at Inter Faculty and Inter-University levels, and also at State level. One student—Shri H. R. Brahmhatt—won the Gujarat State Badminton Championship for the year 1972-73 in Junior Singles and Junior Doubles held at Nadiad and was Winnerup in West Zone in Junior Singles held at Vallabh Vidyanagar.

(5) Students were given information and guidance about the National Science Talent Examination. This year 23 students filled-up the forms but only seven students appeared at the National Science Talent Search Examination held on 2nd January, 1973.

(6) Guidance was given regularly to the weak students in Chemistry, Physics, Mathematics, Biology and English by taking lectures after working hours. In all 25 students took advantage of this extra classes in the first term and 126 in the second term.

(7) The Preparatory Unit—Science Students Association donated Rs. 501/- 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 and Commerce,
- (2) (a) B.A. (Major) Economics, History, Gujarati and Hindi,
(b) B.A. (Minor) History, Geography, Gujarati, Hindi, Political Science, Psychology, Ancient Indian Culture and History,
- (3) B.Com., Accounting and Auditing, Banking and Business Management.

2. Number of Students

Year/Class	Men	Women	Total
(1) Preparatory Arts	326	82	408
(2) Preparatory Science	109	8	117
(3) Preparatory Commerce	340	30	370
Total	775	120	895
(4) F.Y.B.A.	44	12	56
(5) S.Y.B.A.	15	5	20
(6) T.Y.B.A.	35	11	46
Total	94	28	122
(7) F.Y.B.Com.	196	12	208
(8) S.Y.B.Com.	119	4	123
(9) T.Y.B.Com.	104	9	113
Total	419	25	444
Grand Total	1,288	173	1,461

3. Staff

(a) Present Position:

During the year, the staff of the College consisted of Principal, 21 Lecturers, 6 Temporary Assistant Lecturers, 4 Part-time Teachers, Physical Instructor, 14 Class III and 14 Class IV employees.

(b) New Appointments:

- (1) Shri H. R. Desai as Lecturer in Accounting and Auditing.
- (2) Shri J. S. Pathak as Lecturer in English.
- (3) Shri R. G. Sharma as Lecturer in Hindi.

4. Professional Growth of the Staff

(a) Publication:

Name	Articles or Papers' Title	Name of the Journal wherein published with month of publication
(1) Shri I. A. Dave	પુરાતન વાલમ	Commemoration Volume, 80 years of L. M. Patel Library—Valam.
(2) Dr. L. M. Desai	શ્રીમદ્ ઉપેન્દ્રચાર્યજી કૃત શ્રી સુદામા આગ્યાન	સ્વાધ્યાય, નવેમ્બર, ૧૯૭૨

(b) Papers presented at All India Level Seminars, Conference etc.:

Name of the Teacher	Name, Place and Dates of the Conference/Seminars	Title of the Paper presented
Dr. V. P. Fadia	Diamond Jubilee Session of the Indian Science Congress held at Chandigarh from 3rd to 9th January, 1973	Tissue Culture Studies on Cucurbits: Effect of ausins, sugars and nitrogen sources on growth of cucumis callus cultures.

5. Library

The College has a separate Library. It received from the University a grant of Rs. 12,000 for books, Rs. 2,000 for periodicals and Rs. 1,000 for binding. The working hours of Library were from 8-00 a.m. to 5-30 p.m. on all working days and from 8-00 a.m. to 3-0 p.m. on Saturdays.

- (1) Average number of students making use of the Library and/or the Reading Room daily 400
- (2) Average number of teachers making use of the Library and/or the Reading Room daily 32
- (3) Total number of books issued to the students during the year 20,000
- (4) Total number of books issued to the teachers during the year 2,000

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

	Number	Cost in Rs.
(1) Books (including back numbers of Journals) as on 1-4-1972	5,932	74,626-93
(2) Books written off during the year	—	—
(3) Books and back volumes of Journals added during the year	794	11,999-51
(4) Books and Journals as on 31-3-1973	6,726	86,626-46
(5) Journals subscribed during the year	62	1,996-58
(6) Amount spent on binding during the year	—	658-10
(7) Total amount spent for Library and/or Reading Room during the year	—	14,654-19

6. Museum, Laboratory, Studios, Workshop etc.

The following is the statement of the cost of equipments:

Sr. No.	Laboratory	Cost of equipment as on 1-4-1972	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1973
		Rs.	Rs.	Rs.	Rs.
(1) Physics		12,130-47	—	—	12,130-47
(2) Chemistry		10,959-66	—	699-50	11,659-16
(3) Biology		2,968-90	—	64-88	3,033-78
		26,059-03	—	764-38	26,823-41

7. Faculty Union Activities

(1) The students organised a Fun Fair on 24th January, 1973 and a Cultural Programme on 26th January, 1973 for collection of Drought Relief Fund.

(2) The college organised debates, celebrated the Annual Day and undertook tours to North India and Kashmir.

(3) The College Magazine—*Spandan*—was published.

(4) The College also arranged a Book-Exhibition and a series of lectures from 5th to 7th September, 1972, as a part of celebration of the International Book Year 1972-73.

8. Visitors to the College

Sr.No.	Name of Visitor	Date of Visit
(1)	Shri Yogeshwarji, Saint, Writer and Philosopher	6-2-1973
(2)	Shri Yashodhar Mehta, Prominent Writer in Gujarati (Novelist)	7-2-1973

CHAPTER XXIV—POLYTECHNIC

Courses of Studies

The Polytechnic offers the following courses :

- (1) Diploma Courses in Civil, Mechanical and Electrical Engineering. (3 years)
- (2) State (Extended) Diploma Courses in Civil, Mechanical and Electrical Engineering on part-time basis. (4 years)
- (3) 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. (3 years and 10 months)

2. Number of Students

(A) Regular Diploma Courses :

	Men	Women	Total
(1) Civil Engineering	220	1	221
(2) Mechanical Engineering	331	—	331
(3) Electrical Engineering	269	—	269
Total	820	1	821

(B) State (Extended) Diploma Courses :

(1) Civil Engineering	49	—	49
(2) Mechanical Engineering	121	—	121
(3) Electrical Engineering	89	—	89
Total	259	—	259

(C) Model Diploma Courses in Petro-Chemical Technology :

(1) Technology of Processing of Oil and Gas	67	1	68
(2) Technology of Production of Synthetic Resins and Plastics	73	2	75
(3) Technology of Production of Fertilizers and Acids	68	1	69
Total	208	4	212
Grand Total	1287	5	1292

3. Staff

(a) Present Position :

During the year under report the staff of the Polytechnic consisted of Principal, 2 Readers, 49 Lecturers, 27 Senior Instructors, 1 Assistant Lecturer, 62 Class III and 51 Class IV employees. Mr. O. V. Stefanski and Mr. V. Y. Zezekalo, USSR experts in Technology of Oil and Gas and Technology of Synthetic Resins and Plastics respectively helped the Polytechnic in organising the Model Diploma courses in O.P.F. Technology.

(b) New Appointments :

- (1) Shri R. M. Bhagia as Reader and Head of Applied Mechanics Department.
- (2) Shri A. A. Patel as Lecturer in Mechanical Engineering.

(c) Teachers upgraded to higher posts :

- (1) Sarvashri R. C. Desai, J. N. Upadhyaya, V. K. Dasgupta, B. M. Shah and R. H. Dave, Senior Instructors in Applied Mechanics were upgraded as Lecturers in Applied Mechanics.
- (2) Sarvashri D. B. Dewaskar, N. G. Suthar, V. K. Shah, J. R. Shah, D. C. Vyas, B. M. Shah and K. V. Gandhi, Senior Instructors in Civil Engineering were upgraded as Lecturers in Civil Engineering.
- (3) Sarvashri M. C. Bhavsar, C. D. Panchal, M. C. Shah, V. Y. Sane and S. K. Roy, Senior Instructors in Electrical Engineering were upgraded as Lecturers in Electrical Engineering.
- (4) Sarvashri M. D. Patel, R. V. Mistry, R. M. Upadhyaya, R. B. Shah, H. S. Sheth, V. R. Shah, S. Y. Gokhale, J. C. Patel and S. B. Kaluskar, Senior Instructors in Mechanical Engineering were upgraded as Lecturers in Mechanical Engineering.
- (5) Sarvashri S. H. Desai, B. K. Patel and Dr. D. C. Patel, Assistant Lecturers in Chemistry were upgraded as Lecturers in Chemistry.
- (6) Shri R. C. Mehta, Assistant Lecturer in Mathematics and Sarvashri N. N. Kakade and R. V. Phanse, Assistant Lecturers in Physics were upgraded as Lecturers in Mathematics and Physics respectively.

(d) Teachers who left the University :

- (1) Shri S. K. Roy, Lecturer in Electrical Engineering for going to U.S.A.

4. Faculty Union Activities

The students formed their association during the year and carried out their normal activities of their interest—curricular and ex-curricular.

The Polytechnic Day was celebrated on 27th January, 1973.

5. 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 :

	Books and Bound Periodicals	Total value in Rupees
(1) Number at the beginning of the year	14435	2,11,159-84
(2) Number added during the year	651	34,818-59
(3) Number withdrawn from the record	—	—
(4) Number remaining at the end	15086	2,45,978-43

(b) Periodicals :

During this year the Library subscribed to 65 periodicals. The total amount spent for the subscription of the periodicals was Rs. 3,994-15 and the amount spent for binding was Rs. 1,465-40.

(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 Sundays 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) Other Statistics :

The number of readers registered was as under :

- (1) Students 990 (including deposit members 46)
- (2) Teachers 160

Statistics for the use of the Library are given below :

- (1) Daily average number of readers making use of the Library 284
- (2) Daily average number of books issued to the readers for home reading. 93

6. Museum, Laboratory, Studio, 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 Equipments/ Machinery as on 1-4-1972	Cost of Equipments/ Machinery etc. written off during the year	Cost of Equipments/ Machinery etc. added during the year	Cost of Equipments/ Machinery as on 31-3-1973
		Rs.	Rs.	Rs.	Rs.
(1)	Laboratories	6,58,138-18	—	85,451-2	7,43,589-40
(2)	Workshops	4,07,900-50	997-25	—	4,06,903-25

For the new Model Diploma Courses in Petro-chemicals the following four laboratories were initially needed and construction of these laboratories is completed during the year under report and the work of equipping these laboratories is under progress :

(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.

7. Co-curricular Activities

(1) Exhibition of Educational Film :

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

(2) Co-operative Store :

The Store is run by the Polytechnic. The articles for the normal use of an engineering student are made available at reasonable prices.

(3) Book Bank

This Institute also runs a Book Bank for the students of the State (Extended) Diploma Courses.

8. Visitors

Mr. A.A. Bogdanov, Deputy Head of the Educational Methodological Department of Secondary and Specialised Education, Ministry of Higher and Secondary Specialized Education of U.S.S.R. and Miss A. V. Yalizerova, Interpreter visited the Polytechnic and discussed the further requirement for strengthening the three Model Diploma Courses in O.P.F. Technology.

CHAPTER XXV-DEPARTMENT OF CONTINUING/ADULT EDUCATION

1. Programmes and Activities

The Head and other staff members of the department devoted considerable time in initiating processes and activities which are vital to the existence of a new Department during its initial phases of growth and development. These processes and activities include, among others, developing an appropriate atmosphere and awareness on the campus and in the community for continuing education programmes, an assessment of needs and resources, induction of staff and their training (O.J.T.), setting up of an administrative machinery, etc.

Some of these processes and activities will continue in the following years till the Department becomes a viable organization at the Campus. Some programmes and activities undertaken by the Department during the year are as follows :

(1) A Symposium on " University, Continuing Education and Social Change " was held on 4th January, 1973. Speakers were :

- (i) Dr. M. S. Mehta, President, Seva Mandir, Udaipur and formerly Vice-Chancellor of Rajasthan University,
- (ii) Dr. Amrik Singh, Secretary, Inter University Board of India and Srilanka,
- (iii) Shri Shital Prasad, Executive Secretary of I. U. A. C. E. and formerly Vice-Chancellor, Agra University.

(2) A Symposium on " Environmental Studies with Special Reference to Pollution Problems of Baroda " was held on 23rd and 24th January, 1973. The symposium was organized in collaboration with the Departments of Botany, Zoology and Civil Engineering. About 13 papers were presented which stimulated a good deal of interest in community problems.

(3) Plans were developed to offer a Summer School in April-May, 1973 in collaboration with various Faculties and Departments of the University. About 25 short-term courses were identified to be offered to teachers, housewives, students and the general public.

2. Staff

The academic staff provided under the scheme include one Professor, one Reader and three Lecturers. The following staff members were appointed during the year :

Sr. No.	Name	Designation	Date of appointment
(1)	Dr. S. Kapoor	Professor and Head	August, 1972
(2)	Shri Z. M. Quraishi	Lecturer	February, 1973
(3)	Kum. T. P. Bhavnagri	Lecturer	February, 1973

3. Professional Growth

(a) Papers presented at All India level Seminar, Conferences, etc. :

Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the paper
Dr. S. Kapoor	25th All India Adult Education Conference, Bombay from 30th October to 4th November, 1972	Department of Continuing/Adult Education at M. S. University—A proposed outline of Programmes and Activities.

(b) Participation in In-service and other Programmes :

Teacher	Programme, Place & Dates
Dr. S. Kapoor	First National Seminar on Correspondence Courses, University of Mysore, Mysore from 25th to 28th October, 1972.

(c) Research :

Name	Subjects
Dr. S. Kapoor	(i) A Review of Adult Education Research in collaboration with CASE of M. S. University (completed).
	(ii) A Survey of Extension and Extra-mural type activities carried on by various Faculties and Academic Departments of M. S. University during the last five years, 1967-72.
	(in progress)

4. Library

A small departmental library has been set up and 56 books were purchased and 7 Journals were subscribed. An amount of Rs. 613-39 was spent during the year.

5. Visitors

<i>Name of the Visitor</i>	<i>Date of Visit</i>
(1) Dr. James A. Draper, Director, Shastri Indo-Canadian Institute, New Delhi and Professor of Adult Education, O.I.S.E., Toronto, Canada.	4-10-1972 and 10-3-1973
(2) Dr. M. S. Mehta, Formerly Vice-Chancellor of Rajasthan University, President, Seva Mandir, Udaipur.	4-1-1973
(3) Dr. Amrik Singh, Secretary, Inter-University Board of India and Srilanka, New Delhi.	4-1-1973
(4) Professor Shital Prasad, Formerly Vice-Chancellor of Agra University, Secretary, Indian University Association for Continuing Education, New Delhi.	4-1-1973
(5) Mrs. C. K. Dandiya, Director, Department of Adult Education (Extension), University of Rajasthan, Jaipur.	5-1-1973

CHAPTER XXVI—SHRIMATI HANSA MEHTA LIBRARY

1. Staff

The staff of the Library consisted of Deputy Librarian, Assistant Librarian, 58 Class III and 22 Class IV employees.

2. Acquisition Notes

(1) Books:

The University Grants Commission sanctioned an additional grant of Rs. 2 lakhs for the IVth Plan period. With the sanction of this grant, the total grants for purchase of books and journals to the Library amount to Rs. 7.1 lakhs.

The Library received an additional grant of Rs. 1,66,000/- from the University to meet the expenditure on subscription of periodicals over and above its usual recurring grant of Rs. 40,000/-.

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

<i>Institution</i>	<i>Number of Books</i>
Smt. Hansa Mehta Library (which includes books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science, the Department of Museology and the Department of Continuing/Adult Education)	4,939
General Education Centre and Preparatory Unit—Arts and Commerce	76
Faculty of Technology and Engineering	1,492
Faculty of Arts	242
Faculty of Social Work	257
College of Indian Music, Dance and Dramatics	119
Oriental Institute (Printed Section)	578
Polytechnic	651
Sanskrit Mahavidyalaya	47
Centre of Advanced Study in Education	635
M. K. Amin Arts and Science College and College of Commerce, Padra	794
Chetan Balwadi	70
Total	9,900

Out of these books 1941 were received as gift.

The following statement gives the details of the Book Stock of Smt. Hansa Mehta Library during the year:

	Books	Bound Vols. of Period- icals	Pamph- lets	Manu- scripts	Maps, Charts etc.	Total value in Rs.
(i) Number at the beginning of the year	2,51,696	33,073	16,397	248	797	49,01,512-06
(ii) Number added during the year	4,939	1,553	407	—	19	2,90,315-41
(iii) Number withdrawn from the records	—	—	366	—	—	—
(iv) Number remaining at the end of the year	2,56,635	34,626	16,434	248	816	51,91,827-47

(2) Periodicals:

The total number of periodicals and scholarly journals subscribed to, during the year is 1000. About 1553 volumes of bound periodicals were added to the stock.

3. Cataloguing Section

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

(A) Books classified and catalogued

(i) New Accessions to University Library	4,939
(ii) New Accessions to Faculty Libraries	4,961

Total 9,900

(iii) Bound periodicals catalogued

1,553

(B) The other details of the work of the Section incidental to the above are as follows:

	For University Library	For Faculty Libraries	Total
(i) Cards typed	14,817	24,805	39,622
(ii) Cards filed in the catalogue	14,817	24,805	39,622

Circulation Section

As usual, the working hours of the library for the whole academic year i.e. from April, 1972 to March, 1973 (except in the months of May and June) were from 8-00 a.m. to 10-00 p.m. It also remained open on almost all Sundays and Holidays during the academic year. In the months of May and June, the Library remained open, except Sundays and Holidays, from 11-00 a.m. to 5-30 p.m. (On week days) and 11-00 a.m. to 3-00 p.m. (on Saturdays).

This year also from February 1973 the Central Hall Reading Room of the Baroda College Building was kept open from 8-00 a.m. to 10-00 p.m. for the use of First Year Students in Arts, Commerce, Science etc. This reading room accommodates 225 readers and contains all the prescribed and recommended books for the First Year students. It remained open even on Sunday and Holidays.

The Cellar of the General Education Building was kept open for reading purpose for the Preparatory Arts, Commerce and Science students. It was opened from July 1972. It remained open from 8-00 a.m. to 10-00 p.m. even on Sundays and Holidays. 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 below:

(1) Post-graduate students	1321
(2) Under-graduate students	6462
(3) Research Scholars, Assistants, Fellows	93
(4) University Teachers	654
(5) Others	493
Total	9023

The statistics of the use of Library are given below:

(1) Daily average number of readers visiting the library	2700
(2) Daily average number of readers visiting the reading-room or the Central Hall	250
(3) Daily average number of readers visiting the reading room of General Education Building i.e. Cellar	225

(4) Total number of books issued per day for reading	1057
(i) Average number of books issued per day for hSme-reading from General collection	307
(ii) Average number of books issued per day from Curricular collection	264
(iii) Average number of books issued per day from Central Hall of the Baroda College Building	61
(iv) Average number of books issued per day from reading-room of the General Education Cellar	85
(v) Average number of books issued per day for Reference	340
(5) Average number of books issued per reader in the year	31

5. 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 the library's resources.

(2) Orientation Programme:

In the beginning of the academic session the Reference Section conducted an orientation programme with a view to acquaint with and familiarize the new entrants to the working of the various sections of the library. Various practices and procedures followed by the library, arrangement of books in the shelves and other technical devices were explained to them so that they would be able to make the best use of the library and help themselves in finding out their requisite materials.

(3) Exhibitions:

During the period under report the exhibitions of books, pamphlets and photographs on the following topics and persons were arranged by the Reference Section.

(a) Special Exhibitions:

(i) India's Independence Movement, (ii) Sri Aurobindo, (iii) U. N. Day, (iv) Universal Declaration of Human Rights and (v) Shri Motibhai Amin.

(b) Book Week Exhibition:

With a view to highlighting the importance of books and fostering book-mindedness among the people, an exhibition of books and journals on different

subjects was arranged at Padra in collaboration with Padra College, under the auspices of International Book Year.

(c) Weekly Exhibitions:

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

(4) Bibliographic Activity:

Bibliographies on the following topics were compiled during the year:

(i) Cookery, (ii) Co-operation, (iii) Criminology, (iv) Employment and Unemployment, (v) Heredity, (vi) Higher Education, (vii) Home Management, (viii) Indian Biographies, (ix) India's Independence Movement, (x) Libraries of Asia, (xi) Library Education, (xii) Library Legislation, (xiii) Local Government, (xiv) Marriage, (xv) Personality, (xvi) Photography, (xvii) Population, (xviii) Reference Service, (xix) Salesmanship, (xx) School Library and (xxi) Maharshi Aurobindo Ghosh.

(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 Fifth National Library Week, the Reference Section carried out the following activities:

(i) A special exhibition of book jackets was arranged during the Library Week.

(ii) Discussions were arranged with the School Librarians in the different schools of Baroda during which many problems of school libraries were discussed and solutions were suggested.

(7) Theses and Dissertations:

(i) The Reference Section published the descriptive list of Ph.D. theses received in the Library from January, 1972 to December, 1972.

(ii) During the year 1150 readers consulted the theses and dissertations.

(8) Extension Services:

Under the Extension Services Programme of the United States Information Service, Bombay, the Library received books on loan basis. The books were kept on the open shelves in the Reading Room for the use of readers.

6. Teaching of Library Science

Twenty-two students appeared at the Bachelor of Library Science Examination. Seventeen came out successful—two in First Class, twelve in Second Class and three in Pass Class.

CHAPTER XXVII—THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA PRESS

1. Staff

During the year, the Staff of the Press consisted of Manager, Deputy Manager, Head Clerk (Accounts and Stores), Head Proof-Reader, Senior Proof-Reader, Junior Proof-Reader and Clerk. There are 40 permanent workers in the Press.

2. Machinery

The Press has machinery worth Rs. 3,21,099 including machines worth Rs. 1,19,350 purchased from the grant of the University Grants Commission and the State Government. A Gestafex Scanning Machine was purchased this year at the cost of Rs. 23,022/-.

3. Printing Activities

During the year 1,302 plus 284 examination papers were printed under conditions of secrecy for 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 has been working purely as a service department of the University 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) Nibandha Sankalan	Hindi Department, Faculty of Arts
(2) Hammir Prabandh	Gujarati Department, Faculty of Arts
(3) Perspectives in Nutrition	Bio-chemistry Department, Faculty of Science
(4) Kandla—the Gateway of North-West India	Geography Department, Faculty of Science
(5) Muslim Education and Learning in Gujarat	Faculty of Education and Psychology
(6) Research in Teaching	CASE, Faculty of Education and Psychology

<i>Name of the Book</i>	<i>Publishers</i>
(7) Psychology of Teaching	CASE, Faculty of Education and Psychology
(8) Sitar Darpan	College of Indian Music, Dance and Dramatics
(9) Bharatiya Tattvavidya	Oriental Institute
(10) Ancient Indian Colonization in South-East Asia	Oriental Institute
(11) 'Prasnavidya' of Badrayana	Oriental Institute
(12) Akho Ane Madhyakalin Sant-Parampara	Oriental Institute
(13) Shrimad Bhagwat Part II	Oriental Institute
(14) Chhakkamvaeso	Oriental Institute
(15) Gangadas Pratapvilas Natakam	Oriental Institute
(16) Sabarbhasya Vol. I	Oriental Institute
(17) Part I of the Hand-book 1971 and 1972	M. S. University of Baroda
(18) Twenty-Third Annual Report 1971-72	M. S. University of Baroda

(B) The following Journals were printed during the year:

(1) 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) The Education and Psychology Review (Quarterly), (5) Swadhyaya (Quarterly), (6) PAVO-(Half yearly) and (7) Journal of Technology and Engineering (Half 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 quarter to all the Faculties and Institutions and the University Office. It has a staff of Senior Clerk, Stationery Clerk, Riksha Driver-cum-Stationery Distributor and Helper. During the year Stationery worth Rs. 1,97,140 was purchased and Stationery worth Rs. 2,30,148 was distributed.

5. University Publication Sales Unit

This Unit is under the control and supervision of the University Press Manager. The establishment consists of Senior Clerk, Clerk and Outdoor work Assistant/Attendant. It is working as the book-shop for University publications. The total sales during the year was Rs. 61,594.

CHAPTER XXVIII—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

1. Executive Committee

For the academic year 1972-73 Professor R. M. Dave and Shri C. D. Amin were appointed as President and Treasurer of the M.S. University Union. Professor R. M. Dave resigned as President, and Professor R. C. Patel was appointed as President from 22nd January, 1973.

Elections for the Vice-President, General Secretary and Faculty Representatives were held on 7th July, 1972. Shri Shailesh C. Nagarsheth elected Vice-President and Shri Jai H. Patel, General Secretary. There were 34 Representatives elected by the students of respective faculties and institutions. The following members were nominated by the Syndicate:—

- (1) Shri H. P. Mehta, Advocate
- (2) Shri Shantaram Subnis, Educationist

The first meeting of the Executive Committee was held on 14th July, 1972 for the election of sectional secretaries and allocation of various portfolios.

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

- | | |
|--|---------------------------------|
| (1) University Board of Sports | (1) Shri Dilip Y. Shinde |
| | (2) Shri Virendra N. Patel |
| (2) University Student Welfare Board | (1) Shri Prakash K. Brahmabhatt |
| | (2) Shri Jitendra J. Pandya |
| | (3) Shri Jitendra R. Tiwari |
| (3) University Students Aid Fund Committee | (1) Shri Jai H. Patel |
| | (2) Shri Shailesh C. Nagarsheth |
| | (3) Shri Hasmukh M. Rathod |

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

(1) Indoor Games (Badminton and Table Tennis) :

Teams were sent to participate in the Inter-University Badminton Tournament at Udaipur and in Inter-University Table Tennis Tournament at Ujjain. They made a good show at the tournaments.

(2) Hiking Club :

During the year, the club sent a batch of about 40 students for Basic Rock Climbing Course at Mount Abu. They also undertook a tracking trip to Pavagadh.

(3) Emester :

The Emester, a fortnightly publication brought out its issues regularly during the year.

(4) Debates and Discussions :

	Subject
(i) Pro-Vice-Chancellor Trophy Debate in Gujarati	“અભ્યાસ અને આંદોલન પરસ્પર વિરોધી છે”
(ii) Shri M. N. Wadia Trophy Debate in English	“In the opinion of the house it is right to India to go nuclear”

A symposium on ‘Shri Aurobindo’s action to youth life’ and a talk of Shri Narain Desai of Shanti Sena were arranged during this year. A discussion was also arranged on “My official relation with students”.

(5) Public Relation :

A Bull Session and Discussion with Deans of Faculties and Heads of Institutions were arranged during the year.

(6) University Youth Festival

The 22nd University Youth Festival was held from 10th to 17th December, 1972. The Chancellor of the University Shri Fatehsinhrao Gaekwad was the Chief Guest for the inauguration. A Festival Cricket Match was played on the occasion. Entertainment Programme including winning items of the Inter-Faculty Competition was presented for the students. Kavi Sammelan, Brain Trust, Sports Competitions, Symposium and Debates were also arranged by the Youth Festival Committee of the Union.

(7) Fun Fair

A Fun Fair was arranged in the campus of the M. S. University Union Ground on 26th & 27th January, 1973. It was decided to donate the profit of the Fun Fair to the Drought Relief Fund.

(8) Students Visiting Programme

During December 1972, a team of 16 students visited Bhopal University, Bhopal under the Visiting Studentship Scheme sponsored by the University Grants Commission.

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 specialized 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-committee meet as often as necessary and consider problems of revising the syllabi in their own field and recommend reading material and teaching arrangements for the General Education courses in various Faculties.

3. Building and Equipment

Classes met 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.

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 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 a few of them during the year:

I Utility Courses :

- (1) Plumbing, (2) Carpentry, (3) Wireman, (4) Spray-work,
- (5) Batic-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 basis, (3) Preparing for examinations, (4) What does the employer expect, (5) The developing world, (6) World of Planets, (7) World of Atom, (8) World of Moon, (9) Thus-spoke Philosophers, (10) Thus-spoke Scientists, (11) Thus-spoke Diplomates, (12) Thus-spoke Political Leaders and (13) Thus-spoke 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 it, (2) Present drama and evaluate it, and (3) Exhibit art objects and assess them etc.

In addition to the above lectures on various topics of general and topical interest, as well as general discussions, could also be arranged.

6. Teaching Staff

The General Education Centre has a nucleus staff of nine teachers who not only teach General Education and the Pre-University Classes, but also serve as liaison and help in the preparation of reading material and organisation of the programme.

7. Library

The Centre has a separate library of its own. It has a stock of 2296 books of the value of Rs. 16,190-61. It continued to subscribe to 8 periodicals during the year :

The statistics of the use of the library is as under :

(1) Average number of students making use of the Library	15
(2) Average number of teachers making use of the Library	10
(3) Average number of books issued for reference to the students and for home-reading to the teachers only	20

CHAPTER XXX—STUDENTS WELFARE ACTIVITIES

1. Halls of Residence

The University being residential makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949 the University had accommodation for 200 boys in rented buildings and another 200 boys in University owned buildings. There was no hostel accommodation for girl students. At the end of year 1972-73 there were eleven Halls for boys and four Halls for girl students. Two additional Halls for boys are under construction of which one would be ready for occupation by June 1973. 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 good 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 are comparatively too less, the University has to continue the procedure of admitting 3 students in most of the room this year also. At the end of the year under report 2368 boys 844 girl students were in residence in different Halls as against 2313 boys and 854 girl students at the end of previous year. The statement showing the break up of these students by Halls and Institutions is given in Appendix XI.

In the Halls of Residence for boys there is one honorary Warden and in the girls' Hostel there is one paid full time Superintendent to look after the residents. The administration of the Halls was carried on with advice of the Advisory Committee of the Halls of Residence and of the Wardens' Committee. All the Halls have been provided with common rooms, generally used as Library-cum-Reading Room also. Indoor games are also provided in all Halls.

The Chief Warden's office has a Staff of 9 Class III and 2 Class IV employees. The Central Committee was formed and the following Sub-committees were also formed to work under it during the year under report. The Chief Warden, Halls of Residence is the President of the Central Committee. The following Sub-committees were formed :

- (1) Inter Hostel Food Committee
- (2) Inter Hostel Sports Committee
- (3) Inter Hostel Entertainment Committee

The Sports Committee arranged the Inter Hostel Competitions in different games. The Entertainment Committee organised the Inter Hostel Variety Entertainment programme.

In addition to these committees, the following committees were formed to help the Chief Warden.

- (1) Standing Committee
- (2) Purchase Committee
- (3) Maintenance Committee

Apart from these committees each Hall of Residence has its own Executive Committee composed of student-members duly elected by the students. These committees work under the guidance of the Wardens. Students are taking active participation in nearly all the matters pertaining to all the affairs except finance of the hall: The major event in the year was Famine Relief Campaign and Youth against Famine Project. The residents of the Halls responded to all the calls in the most fitting manner.

2. University Health Centre

The staff of the Health Centre consisted of Medical Officer, 2 Honorary Physicians, Surgeon, Lady Gynaecologist, 2 Family Planning Doctors, 2 Family Planning Welfare Workers, Part-time Lady Doctor, Nurse, Sanitary Inspector, Compounder-cum-Clerk, Laboratory-cum-X-ray Technician, and 3 Hamal-cum-Sweepers.

The Health Centre provides preventive and curative services for the students, members of the staff and their families. The Medical Officer visits hostels every month twice, once planned and once by surprise for inspecting maintenance of sanitation and hygiene in hostels and kitchens.

The new entrants in the University were given a medical check-up by the Medical Inspection Board at S.S.G. Hospital. Out of the total 4911 entrant students scheduled for medical check up 4051 (82.48%) reported. Out of total 4051 examined 1410 (34.80%) were recommended follow-up treatment to be taken either from the Health Centre, Specialists of the S.S.G. Hospital or from family doctors for various disorders viz. skin, eye, ear, nose, throat, heart etc. The information regarding the follow-up treatment has been available in case of 1054 (74.75%) students. On Miniature Chest X-ray examination of the students during the Medical check up 103 students were found suspicious of T.B. and called at the Health Centre for X-ray and laboratory investigation. Out of these 103 students, 3 students were found suffering from T.B. and sent to T.B. Hospital for free treatment. They are now improving. For the second medical check up 2607 students were called but the response was poor.

The Mess servants were called at the Health Centre for their general medical check-up and were specially examined for infective and communicable diseases.

During the year the total attendance of the patients at the Health Centre Clinic was 32,753 (22,115 were students and 10,638 were members of the staff and their families). The average daily attendance was 90 during the year.

The total number of laboratory investigations was 851. The total number of fluoro-scopic examination was 682 and 178 X-ray plates were used. The Health Centre runs a Family Planning Unit for the employees of the University and gives free advice and aids.

3. Physical Education Department

(1) Staff:

The staff consisted of Director, 2 Senior Physical Instructors, 5 Physical Instructors, 3 Swimming Trainees, One Boating Trainer and One Clerk.

(2) Physical Training:

Physical Training was imparted to 3077 students (1911 men and 1166 women students).

(3) Major Games:

Cricket, Tennis, Hockey, (Men and Women), Foot-Ball, Throw-Ball, Net Ball, Basket-Ball (Men and Women) Shooting, Kabaddi, Kho-Kho (Men and Women) Track and Field (Men and Women), Wt. Training, Cycling etc. were organised and conducted. In Swimming 552 men and 55 women members and in Boating 82 men and 9 women students were imparted training. Many paid guests took advantage of the Swimming Pool. During the year altogether 1191 members including outside institutions took advantage of Swimming Pool and 500 N.C.C. cadets and 34 Summer vacation members took advantage of Boat House.

(4) Training to University Teams:

The training for Athletics, Swimming, Hockey, Foot-Ball, Volley-Ball, Tennis, Basket-Ball, Cricket, Kabaddi and Kho-Kho teams of the University was conducted by the Officers-in-Charge and Physical Education Instructors. Coaches were also appointed to give special training in Cricket, Hockey, Kho-Kho (Men and Women) and Volley Ball.

(5) Tournament and Competitions:

(a) Hockey:

University Hockey Team (Men) participated in (i) League Tournaments conducted by the Baroda Regional Hockey Association. Out of 7 matches played the team won 4, drew 1 and lost 2. (ii) Knock-out Tournaments conducted by Gujarat Refinery—Result: Lost in first round against Sarabhai Chemicals.

(b) Foot-Ball:

University Foot-Ball Team participated in the (i) Knock-out Tournaments conducted under the auspices of Junior Chambers and (ii) Baroda District

Foot-Ball Association League Tournaments. In both these tournaments, the team reached upto Semi-finals.

(c) *Cricket :*

- (i) University 'A' Team—H. D. Zaveri League (A Group) — 35 points.
- (ii) University 'B' Team—H. D. Zaveri League (B Group) — 32 points.
- (iii) Rendle Cup Tournament : Lost in the Semi-finals against Motibaug XI.

- (iv) M. C. Ghia Tournament : Lost in the Semi-finals against GSFC XI.

(d) *Boating:*

Participated in the competitions conducted by the Mounters Association, Baroda and won prizes.

(e) *Swimming:*

Participated in the competitions organised by Baroda District Swimming Association and won prizes.

(6) *Participation in State Championship :*

- (a) Basketball men and women teams participated in Gujarat State Championship held at Ahmedabad.

- (b) Athletics team consisting of three men and two women athletes participated in State Olympic Meet held at Ahmedabad and following are the positions :

(i)	Shri M. M. Das	Javelin Throw—I
(ii)	Shri Soorya Shrestha	100 M. Running—III
(iii)	Shri Haripal Singh	200 M. Running—II
(iv)	Kum. Florence Alberts	100 M. Running—II
		200 M. Running—II
(v)	Kum. Asha Desai	Discus Throw—II
		Javelin Throw—II

- (c) Volley Ball team participated in Gujarat State Championship held at Ahmedabad.

(7) *Inter-University Tournament :*

Game	Venue	Result	Remarks
(i) Kho-Kho (Women)	Kanpur	Winners	Championship for the first time
(ii) Cricket	Indore	Lost in W. Z. Semi-final	...
(iii) Hockey (Men)	Bhopal	Lost in second round	...

Game	Venue	Result	Remarks
(iv) Tennis (Men)	Chidambaram	Lost in first round	...
(v) Badminton (Men)	Udaipur	Lost in second round against Bombay :	Bombay All India winners
(vi) Table Tennis (Men)	Ujjain	—	—
(vii) Table Tennis (Women)	Ujjain	—	—
(viii) Basketball (Men)	I.I.T., Bombay	Lost in first round	—
(ix) Basketball (Women)	Baroda	Lost in second round	—
(x) Athletics (Men and Women)	Ahmedabad	Shri M. M. Das stood sixth in Decathlon	—
(xi) Kabaddi (Men)	Dharwar	Lost in first round	—

University Shooting Team (Men) and Kho-Kho Team (Men) could not participate in spite of their satisfactory performance since the venue could not be fixed to conduct the Tournament.

Under the auspices of this University the South-Zone Inter-University Basketball (Women) Tournament was organised and conducted on the University Sports Pavilion Ground from 30th November, 1972 to 3rd December, 1972. Twenty-two Universities sent their entry for the Tournament, but only sixteen Universities participated.

Result : Winners—Bombay University

Runners up—Jiwaji University

(8) *Inter Faculty Tournaments :*

	Winners	Runners-up
(i) Foot-Ball	Faculty of Science	Polytechnic
(ii) Hockey (Men)	Faculty of Science	Faculty of Commerce
(iii) Cricket	Faculty of Commerce	Faculty of Law
(iv) Tennis	Medical College	Faculty of Commerce
(v) Basket Ball (Men)	Faculty of Arts	Faculty of Science
(vi) Basket Ball (Women)	Faculty of Home Science	Faculty of Arts

(9) *Inter-Group Competitions :*

(i) Foot Ball	Pre-Science, Div. D., E. and F.	Technology and Engineering.
---------------	---------------------------------	-----------------------------

(ii) Volleyball	Pre. Science, Div. D., E. and F.	Polytechnic
iii) Kabaddi	Polytechnic	Pre. Science
(iv) Throw-ball (Women)	S. Y. B. Sc. (Home)	F. Y. B. Sc. (Home)
(v) Kho-Kho (Women)	Pre. Commerce	F. Y. B. Sc. (Home)
(vi) Basketball (Women)	Technology and Engi- neering, Science & Pre. Science	F. Y. B. Sc. (Home)

(10) *Annual Boating Competitions :*

The competition was organised and Shri B. R. Bhavsar (Men section) and Kum. M. G. Kolhatkar (Women section) won Individual championships.

(11) *Participation in National Championships :*

(a) *Cricket :*

- (i) Sarvashri A. D. Gaekwad, C. R. Mohite, D. D. Sankpal, and M. R. Sheikh represented Baroda Cricket Association in National Cricket Championships (Ranjit Trophy) in the year 1972-73 season.
- (ii) Sarvashri A. D. Gaekwad and I. D. Chauhan were selected to play for the West Zone Universities Team in the Vizzy Trophy.

(b) *Basketball :*

Shri John Cherian, Kum. Sirima Herath and Kum. Anjali Padte were selected to represent Gujarat Team in the National Championships held at Poona.

(c) *Volleyball :*

Shri S. J. Yadav, Captain of the University Volleyball Team represented Gujarat State at the National Volleyball Tournaments held at Trivendrum in January, 1973.

(12) *Scholarships :*

Kum. Achala Deore of Kho-Kho and Shri H. R. Brahmabhatt of Badminton each got the Gujarat State Sports Scholarship of Rs. 50/- per month for one year.

Kum. Achala Deore of Pre-Unit—Arts got the Scholarship from Inter-University Sports Board of Rs. 100/- per month. She got the Arjun award in Kho-Kho for the year 1971.

(13) *Other Events :*

Posters for the major games were prepared and sent for propaganda to the various faculties. Plan of the Physical Education was explained during the Orientation Lectures by the Director of Physical Education.

4. National Cadet Corps

(a) *Training :*

- (i) **Infantry Units :** The training was carried out as per the training syllabus during the training year 1972-73. Due to non-availability/deficiency of sten machine carbine the training in this weapon could not be imparted. Instead additional training in rifle drill and squad drill was carried out.
- (ii) **Composite (Technical) Regiment :** The composite technical regiment consists of Engineer and Signal coys. The training during the year was carried out as per the syllabus of Engineer and Signals.
- (iii) **Naval Unit :** The training was carried out as per the syllabus during the year except in boat pulling/sailing. This could not be carried out as the boat house facilities do not exist at Baroda. The case for construction of a boat house at Sursagar lake is pending due to non-allotment of funds by the State Government.
- (iv) **Air Units :** The training was carried out as per the syllabus. Due to unsatisfactory state of winches for glider pulling, a total of 969 launches as against 2500 planned have been completed so far. Gliding is still continuing at present.

(b) The following number of cadets were trained by the units under command of this group at Baroda:

Name of Unit	Strength of Cadets
(1) 3 Gujarat Bn. N. C. C.	600
(2) 12 Gujarat Bn. N. C. C.	645
(3) 1 Gujarat Comp. Tech. Regt. N. C. C.	300
(4) 5 Gujarat Girls Bn. N. C. C.	300
(5) 2 Gujarat Naval Unit N. C. C.	156
(6) 1 Gujarat Air Sdn. N. C. C.	200
(7) 2 Gujarat Tech. Air Sdn. N. C. C.	116

(c) *Enthusiasm :*

The cadets were keen and enthusiastic and showed a high degree of discipline during the year. Their physical standard was satisfactory.

(d) *Attendance :*

The attendance was satisfactory. The importance of regular attendance was emphasized on the cadets from the beginning. The cadets having low parade attendance were warned through the Deans of respective Faculties/Guardians. Defaulters' parades were held during February, 1973.

(e) *Camp Attendance/Results :*

The following camps were organised by this Group Headquarters.

- (i) Combined Annual Training Camp of Senior/Junior Division Boys of :
 1 Gujarat Air Squadron N.C.C., Baroda
 3 Gujarat (Technical) Air Sqn., N.C.C, Baroda
- (ii) Combined Annual Training Camp of Junior Division Boys of :
 3 Gujarat Bn. N.C.C Baroda
 12 Gujarat Bn. N.C.C. Baroda
 1 Gujarat Composite Tech. Regt. N.C.C. Baroda
- (iii) Combined Annual Training Camp of Senior/Junior Division Girls of :
 5 Gujarat Girls Bn. N.C.C. Baroda

(f) *Annual Day Function :*

Annual Day Function was not organised by N.C.C. Units due to scarcity/drought conditions prevailing in the State.

(g) *N.C.C. Day Celebration:*

The N.C.C. Day could not be celebrated this year due to certain administrative reasons.

(h) *Certificate Examinations :*

Certificate examinations were held during the year 1972-73 and the results are as under :

Unit	'B'/'G' PART I		'C'/'G' PART II	
	Appeared	Passed	Appeared	Passed
3 Gujarat Bn. N.C.C.	124	105	3	—
12 Gujarat Bn. N.C.C.	144	107	4	2
1 Guj. Comp. Tech. Regt. N.C.C.	56	36	2	1
5 Guj. Girls Bn. N.C.C.	108	89	9	9
2 Guj. Naval Unit N.C.C.	25	18	7	7
1 Guj. Air Sqn. N.C.C.	72	61	12	—
3 Guj. Tech. Air Sqn. N.C.C.	66	66	—	—

5. National Service Scheme

The National Service Scheme has the objectives—(i) to impart education in a comprehensive sense, (ii) to help Self Development and (iii) to promote and encourage social service to the community.

The staff of the N.S.S. consisted of Hon. Director, Deputy Director, Programme Co-ordinator, 17 Programme Leaders, 5 Class III and 3 Class IV employees.

Two thousand four hundred and seventy-five students from various Faculties and Institutions of the University were enrolled under the N.S.S. Programme. The students were spread over various groups according to their interest. The

N.S.S. undertook varied educational and service projects under various groups as shown below :

(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) Home Science Group, (9) Mobile Library Group, (10) Reading and Writing Group, (11) Sports Group, (12) Survey Group, (13) Traffic Education Group, (14) Village Group, (15) Padra Project Group, (16) Friends Society Group and (17) Emergency Group.

The N.S.S. organised the following camps :

Sr. No.	Place	No. of participants	Duration	Nature of work
(i)	Village Sokhada, Dt. Baroda	35 students	7 days (May, 1972)	Blood and Urine tests were administered to 200 persons
(ii)	Village Dabka, Dt. Baroda	35 students	7 days (May, 1972)	Training was given to students in investigation work
(iii)	Village Zoza, Dt. Baroda	35 students	7 days (May, 1972)	Adult Education Classes were conducted for 400 tribal people
(iv)	Village Vasad, Dt. Kaira	42 students	9 days (June, 1972)	Students were given training in Survey. They collected data about 7 surrounding villages
(v)	Village Kadana, Dt. Panchmahals	30 students	4 days (June, 1972)	The students were given training in planning out the various programmes themselves.
(vi)	Pavagadh Dt. Panchmahals	35 students	2 days (September, 1972)	The students prepared a Camp Manual giving details about different aspects of Camp Life.
(vii)	Villages Samiala and Rangpura Dt. Baroda	28 students	1 day (September, 1972) and 1 day (February, 1973)	Democratic group experiences were given to the student volunteers.

Sr. No.	Place	No. of participants	Duration	Nature of work
(viii)	Village Nargol, Dt. Bulsar	50 students	6 days (October, 1972)	The students learnt new skills and techniques that go in the making of successful leaders.
(ix)	Village Samiala, Dt. Baroda	20 students	3 days (December, 1972)	It was an achievement motivation camp for leadership for the students.
(x)	Mount Abu Rajasthan	40 students	9 days (October-November, 1972)	Specialised training in Folk Dances of Rajasthan types was given under the direction of Shri Jaswant Thakar, Kum. Pratibha Pandit and local artists.
(xi)	Mount Abu Rajasthan	31 students	4 days (December, 1972)	Techniques of adult teaching were taught. The students were provided opportunity to study Rajasthani culture.

In connection with the celebration of the 25th anniversary of India's Independence the N.S.S. organised the following activities :

- (i) Visits were arranged in Diwali Vacation to Sabarmati Ashram Vidyapith, Sarvodaya Centres and other places where Gandhian Ideology is applied. Study tours were also undertaken to Bombay-Poona side and Saurashtra.
- (ii) Four adult education classes were started in the Central Prison, Baroda.
- (iii) A Rural Wing has been established at Shri M. K. Amin Arts and Science College and College of Commerce, Padra. 80 students who were enrolled at the wing undertook projects on blood donation, cleanliness campaign, entertainment programmes and survey work of the villages.

(iv) Two batches of students (one of 40 and the other of 80) were sent to Rangpur to study the Gramdan and Bhudan Movement under Shri Harivallabhbhai Parikh.

(v) A peripatetic Cycle tour of 30 students to Vedachhi (Dt. Surat) was arranged in Diwali Vacation, to study the Gandhian way of life and national education system.

The following visits were also arranged :

(i)	Visit to Shivrajpur	61 volunteers	31-12-1972
(ii)	Visit to Rasulabad	44 volunteers	11-2-1973
(iii)	Visit to Institutions of Physically Handicapped at Poona and Bombay	20 volunteers	22-12-1972 to 1-1-1973
(iv)	Visit to National Youth Forum, New Delhi	10 volunteers	15-2-1973 and 16-2-1973

The N.S.S. organised the following exhibitions :

- (i) Khadi Gramodyog Exhibition.
- (ii) Exhibition of the Activities of the Beggar Home.
- (iii) Exhibition of Hobby Group.

The volunteers also participated in (i) Small Saving Campaign, (ii) Cheshire Home, (iii) Mental Health Week, (iv) Anti-Beggary Week, and (v) Relief Programmes for the Drought affected areas.

25 teachers of this University were trained as Camp Organizers at the Anand Niketan Ashram during 17th to 19th March, 1973. They will be entrusted to organise the camps—two in Chhota Udepur and one in Akhteshwar and at Savli, Panchmahal, Kutch and Bhavnagar next year. Sarvashri B. M. Shah, D. R. Shah and R. R. Shah were deputed to participate in All India Youth Leaders' Conference held at New Delhi on 14th and 15th November, 1972.

6. Students' Common Room :

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 1972-73 as mentioned below :

Hobby	Number of students
(i) Carpentry	20
(i) Assembling electrical and electronic appliances	20
(iii) Music	40
(iv) Clay-Modelling	12
(v) Photography	52
Total :	144

8. University Employment Information and Guidance Bureau

The Bureau gave individual information to 2178 students, guidance at the time of registration to 539 students and also organised 59 group talks.

Information about various courses and their employment potentiality was given to 2338 students.

The Bureau also conducted courses in Stenography, English and Gujarati Typewriting under the scheme of ' Relief to educated unemployed '.

Statement showing the number of University Students in the Academic year 1972-73 Appendix I

Sr. No.	Institution	*Post-graduate Courses				Degree Courses		Diploma Courses		Total		Grand Total 1972-73	Grand Total 1971-72	Grand Total 1970-71		
		Men		Women		Men		Women		Men					Women	
1	Faculty of Arts	181	115	919	925	57	4	1157	1044	2201	2149	1945				
2	Faculty of Science	303	89	834	371	15	3	1152	463	1615	1570	1571				
3	Faculty of Education and Psychology	81	40	108	203	—	20	189	263	452	451	445				
4	Faculty of Commerce	154	26	1949	622	11	2	2114	650	2764	2448	2355				
5	Faculty of Medicine	57	55	607	75	—	—	664	130	794	757	746				
6	Faculty of Technology and Engineering	97	2	2177	53	†278	—	2552	55	2607	2610	2721				
7	Faculty of Fine Arts	9	7	48	41	†118	—	175	59	234	217	200				
8	Faculty of Home Science	3	120	1	697	—	—	4	817	821	784	675				
9	Faculty of Social Work	44	38	—	—	—	—	44	38	82	93	75				
10	Faculty of Law	247	27	542	71	—	—	789	98	887	741	626				
11	Preparatory Unit-Arts and Commerce	—	—	1010	560	—	—	1010	560	1570	1555	1488				
12	Preparatory Unit-Science	—	—	891	164	—	—	891	164	1055	1066	1073				
13	M. K. Amin Arts and Science Col- lege and College of Commerce, Padra.	—	—	1288	173	—	—	1288	173	1461	815	648				
14	College of Indian Music, Dance and Dramatics	7	8	39	41	—	—	46	49	95	77	68				
15	Baroda Sanskrit Mahavidyalaya	10	3	6	2	26	9	42	14	56	54	60				
16	Polytechnic	—	—	—	—	1287	5	1287	5	1292	1204	1234				
TOTAL...		1,193	530	10,419	3,998	1,792	54	13,404	4,582	17,986	16,590	15,930				

* Includes Ph.D. and Master Degree and Post-graduate Diploma students.

† Includes Post-Diploma Students.

Appendix II

Statement showing the number of Non-University Students in the year 1972-73

Institution	Men	Women	Total 1972-73	Total 1971-72	Total 1970-71
(A) Diploma Courses :					
(1) College of Indian Music, Dance and Dramatics	347	328	675	548	498
(B) Certificate Courses :					
(1) Faculty of Arts	463	62	525	301	408
(2) Faculty of Fine Arts	2	1	3	10	5
(3) Baroda Sanskrit Mahavidyalaya	57	1	58	60	55
(C) S. S. C. Course :					
(1) University Experimental School	276	239	515	492	486
(D) Nursery Courses :					
(1) Chetan Balwadi	43	18	61	71	56
(2) Kindergarten	13	11	24	14	29
Total :	1,201	660	1,861	1,496	1,537

Appendix III

List of Degrees and Diplomas conferred at the Annual and Supplementary Convocations during the year 1972-73.

Sr. No.	Degree/Diploma	Annual Convocation December, 1972	Supplementary Convocation March, 1973	Total
1	Ph.D. (Arts)	8	2	10
2	Ph.D. (Science)	16	9	25
3	Ph.D. (Education and Psychology)	7	5	12
4	Ph.D. (Medicine)	1	—	1
5	Ph.D. (Technology and Engineering)	1	—	1
6	Ph.D. (Fine Arts)	—	1	1
7	Vachaspati	6	11	17
8	M.D.	5	6	11
9	M.S.	104	2	106
10	M.A.	3	—	3
11	Acharya	497	45	542
12	B.A.	2	—	2
13	Shastri	20	—	20
14	Bachelor of Library Science	122	—	122
15	M.Sc.	257	52	309
16	B.Sc.	34	—	34
17	M.Ed.	164	—	164
18	B.Ed.	25	—	25
19	M.Com.	554	67	621
20	B.Com.	35	—	35
21	Post-graduate Diploma in Banking	2	—	2
22	Post-graduate Diploma in Co-operation	3	2	5
23	M.Sc. (Medical)—Part II	—	—	—

Sr. No.	Degree/Diploma	Annual Convocation December, 1972	Supplementary Convocation March, 1973	Total
24	M.B.B.S.	59	78	1 7
25	Bachelor of Physiotherapy	3	—	3
26	Diploma in Medicine	14	10	24
27	M.E.	11	13	24
28	B.E.	385	16	401
29	B. Text. (Engg.)	14	1	15
30	B. Text. (Tech.)	33	3	36
31	B. Arch.	27	18	45
32	Post-graduate Diploma in Refrigeration and Air-conditioning	1	2	3
33	LL.M.	5	—	5
34	LL.B. (Special)	21	7	28
35	LL.B. (General)	66	12	78
36	D.T.P.	24	3	27
37	D.L.P.	23	—	23
38	M.A. (Fine)	2	—	2
39	M.Mus.	4	—	4
40	B.A. (Fine)	17	—	17
41	B.Mus.	12	—	12
42	P.G. Diploma in Museology	5	—	5
43	M.Sc. (Home)	16	6	22
44	B.Sc. (Home)	106	22	128
45	P. G. Diploma in Nursery School in Education	7	—	7
46	P. G. Diploma in Dietetics	10	—	10
47	M.S.W.	34	7	41
Total :		2,766	400	3,166

Statement showing the number of teaching staff of various Faculties
and Institutions as on 31st March, 1973.

Institution	Profes- sors	Readers	Lecturers	Assistant Lecturers Senior/ Junior In- structors	Hono- rary, Part- time, Research and others	Total
Arts	11	17	58	12	4	102
Science	13	26	133	—	—	172
Education and Psychology	4	8	16	5	—	33
Commerce	2	7	17	—	6	32
Technology and Engineering	19	36	109	40	—	204
Fine Arts	2	7	19	3	1	32
Home Science	3	7	20	18	—	48
Social Work	1	1	8	—	—	10
Law	1	2	1	—	12	16
Oriental Institute	1	1	5	—	—	7
College of Indian Music, Dance and Dramatics	1	3	13	16	12	45
Baroda Sanskrit Mahavidyalaya	—	1	3	9	2	15
Polytechnic	1	2	49	28	—	80
Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	1	21	6	4	32
Total :	59	119	472	137	41	828

Appendix V

List of Students qualifying for the Ph. D. degree during the year 1972-73

Sr. No.	Name	Subject	Title of the Thesis
1	Shri T. V. G. Shastri	Archaeology	A Study of Goddesses in Indian literature and archaeology
2	Shri M. M. Dadi	Economics	Income share of factory labour in India
3	Shri R. G. Nambiar	Economics	Resource structure of India's foreign trade
4	Shri M. N. Raval	Economics	Monetary management in under-developed countries with special reference to India
5	Shri S. R. Dave	Gujarati	The Saint poet Chhotam (1812-1885 A. D.)-a study of his life and works
6	Shri K. M. Shah	Hindi	Maharao Lakhapati Singh-Vyaktitva aur Sahityik Krititva
7	Shri N. G. Chaturvedi	Hindi	Kaviratna Navneet Chaturvedi-Jeevani aur Kavya
8	Shri D. Srinivasan	Linguistics	A mathematical and linguistic analysis of Thomas Mann's style in his novel Budden Brooks in original German Language
9	Shri K. A. Gandhi	Philosophy	The ethico-religious philosophy of M. K. Gandhi
10	Shri D. G. Korde	Philosophy	Law and Value (A study in the Philosophy of Law in the context of the Philosophies of value)
11	Shri L. R. Purohit	Sanskrit	Bharat Champu Kavyas' Sahitya drstyā Samiksanam (Awarded Vachaspati Degree)
12	Shri Y. A. Shaikh	Chemistry	Studies in Benzophyrone
13	Kum. H. S. Rama	Chemistry	Molecular Sorption Studies with Ion Exchange resins
14	Shri A. H. Vyas	Chemistry	Studies on Cinchona Alkaloids with Ion-Exchange resins
15	Shri B. R. Panchal	Chemistry	Study of the metallic complexes containing VIth Group ligand atoms
16	Kum. K. M. Jainamma	Chemistry	Studies in Coumarins

Sr. No.	Name	Subject	Title of the Thesis
17	Shri B. V. Shah	Chemistry	Part I : Oxidation of N-ligands Part II : Salts of substituted malonic acids
18	Shri T. C. Thomas	Chemistry	Studies in acenaphthene and fluorene derivatives.
19	Shri P. P. Patel	Geology	A detailed study of the rocks of Bhatana and Kapasia of Sirohi-Palanpur (North Gujarat-Rajasthan) with special reference to their structure and metamorphic history and igneous activities.
20	Shri S. K. Munshi	Geology	Geology of the area around Someshwar, District Almora, U. P. with special reference to the structure and metamorphism.
21	Shri J. P. Patel	Geology	Geology of the area around Ramgarh, District Nainital, U. P. with special reference to the structure and metamorphism.
22	Shri A. N. Shah	Geology	Structure and metamorphism of the rocks around Almora (U. P.)
23	Smt. Geetha R. Ghai	Microbiology	Carbo-hydrate metabolism in ripening mangoes.
24	Kum. S. U. Mehta	Microbiology	Flavinogenesis in Eremothecium ashbyii
25	Shri C. L. Saraf	Physics	Optical study of natural and synthetic Barite Crystals
26	Shri K. C. Abraham	Physics	Study of the Spectra of diatomic molecules (Antimony Fluoride)
27	Shri D. J. Waghri	Physics	Study of Crystal Surfaces-Bismuth
28	Shri R. V. Godbole	Physics	Simulation of Indian Summer Monsoon
29	Shri D. R. Kulkarni	Physics	The effective interactions and deformations in 1d-2s & 1f-2p shells
30	Shri N. L. Kekan	Physics	Optical investigation of divalent doped alkali halide crystals.
31	Shri A. V. Ramchandran	Zoology	Studies on certain bio-chemical and histo-chemical aspects of the normal and regeneration tail of the Scincid lizard, Mabuya Carinata.
32	Shri P. K. Hiradhar	Zoology	Studies on certain histophysiological aspects of the normal and regenerating tail of the house lizard, Hemidactylus Flavivirides.

Sr. No.	Name	Subject	Title of the Thesis
33	Shri N. Shivnarayan	Zoology	Studies on the regulation of moult and reproduction in House Swift, <i>Apus Affinis</i>
34	Shri K. N. Patel	Education	Critical evaluation of the organisation of audio visual education training programme in the Secondary School Teachers Training Colleges in India
35	Smt. P. M. Buch	Education	An inquiry into conditions promoting adaptability in Indian Schools
36	Kum. S. H. Desai	Education	A Critical Study of the history of development of Secondary Schools for Girls in Gujarat and their present day problems
37	Shri M. R. Santhanam	Education	A study of the patterns of teachers influence in some selected schools
38	Shri K. C. Bhatt	Education	A Critical study of the vocational education in West Germany vis-a-vis vocational education in India
39	Kum. K. J. Rai	Education	Factors affecting diffusion of innovations in Secondary Schools
40	Shri D. C. Upreti	Education	Political developments and growth of education in British India (1904-47)
41	Kum. G. G. Kapadia	Education	To develop programme learning material and study pupils' achievement on programmed learning material in relation to some personality variables
42	Shri V. K. Murthy	Education	An investigation into the relative effectiveness of different forms of programmed learning material
43	Kum. S. S. Sharma	Education	Relationship between patterns of teachers classroom behaviour and pupils' attainment in terms of instrumental objectives
44	Shri B. R. Goyal	Education	Education of the depressed classes in India during the British period
45	Shri H. R. Joshi	Education	A critical study of the problems of administration and finance in primary education in the Gujarat State with special reference to the present working and role of the Panchayat Raj Bodies in the Southern Gujarat

Sr. No.	Name	Subject	Title of the Thesis
46	Shri K. V. Sheth	Education	A Critical study of development, organisation, programming and finances of Colleges of Education at Graduate level in Gujarat State
47	Kum. C. M. Sheth	Psychology	A study of intellectual and personality characteristics of the first born in relation to others in the families of varied sizes
48	Smt. Swarn Pratap	Psychology	Construction and Standardisation of an entrance test for students in Engineering and Technology
49	Smt. N. A. Bhatt	Psychology	A study of factors affecting personality measurement
50	Kum. J. R. Barot	Psychology	A study of psycho-social correlates of material adjustment of married couples
51	Shri N. T. Pandey	Psychology	Personal needs, work values and job satisfaction: (An investigation to study relationship among personal needs work values and job satisfaction of managerial personnel in industrial organisation)
52	Shri S. S. Samarth	Pharmacology	Pharmacological study of metabolites from soil microorganisms
53	Shri M. S. Nair	Museology	Studies on the biodeterioration of museum materials
54	Shri A. V. Shroff	Civil Engineering	Influence of mineral type, degree of saturation, fabric structures, stress history and drainage path on the consolidation characteristics of clays

Results of the University Examinations of March/April, 1972.

Sr. No.	Examination	Number appeared					Number Passed												Grand Total	Percentage of Passes
		No. Regd.	No. Absent	Men		Women	Men						Women							
				I Class Dist.	I Class		II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	Prep. Arts	1019	15	616	388	1004	—	7	59	191	257	—	18	86	141	245	502	50.14%		
2	F.Y.B.A.	806	38	446	360	806	—	4	48	207	259	—	26	94	162	282	409	53.50%		
3	*S.Y.B.A.	912	20	791	101	892	—	—	—	242	242	—	—	—	338	338	580	65.2%		
4	T.Y.B.A.	611	24	222	365	587	—	1	51	114	166	2	20	129	187	338	504	85.86%		
5	*M.A. (Part I)	150	21	80	49	129	—	—	—	62	62	—	—	—	48	48	110	85.27%		
6	M.A. (Part II)	110	5	56	54	110	—	7	23	15	45	—	5	22	20	47	92	90.19%		
7	M.A. (O. C.)	20	1	15	4	19	—	—	1	7	8	—	—	1	1	2	10	52.63%		
8	Acharya	3	—	3	—	3	1	1	1	—	3	—	—	—	—	—	3	100.00%		
9	Shastri	3	1	2	—	2	—	1	1	—	2	—	—	—	—	—	2	100.00%		
10	Bachelor of Lib. Science	20	—	2	18	20	—	—	2	—	2	—	8	8	2	18	20	100.00%		
11	P.G. Dip. in German Lang.	4	—	4	—	4	—	1	1	1	3	—	—	—	—	—	3	75.00%		
12	Dip. in German Lang.	23	9	13	1	14	—	9	1	3	13	—	—	—	1	1	14	100.00%		
13	Dip. in Russian Lang.	9	—	6	3	9	—	3	3	—	6	—	2	1	—	3	9	100.00%		
14	Prep. Science	1171	17	965	189	1154	—	169	268	177	614	—	34	49	32	115	729	63.28%		
15	Pre-Medical	153	—	133	20	153	—	28	67	21	116	—	5	9	2	16	132	86.27%		
16	F.Y.B.Sc.	416	6	288	122	410	—	28	66	64	158	—	17	53	19	89	247	60.68%		
17	*S.Y.B.Sc.	461	9	313	139	452	—	—	—	183	183	—	—	—	108	108	291	64.52%		

* No Class is awarded.

18	T.Y.B.Sc.	391	5	377	109	386	—	8	29	95	50	182	7	17	41	18	83	265	68.83%
19	*M.Sc. (Previous)	177	8	131	38	169	—	—	—	—	103	103	—	—	—	34	34	137	81.7%
20	M.Sc. (Final)	141	2	103	36	139	—	2	19	48	18	87	1	8	19	4	32	119	86.86%
21	M.Sc. (Appl. Geology)	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00%
22	fM.Ed.	38	—	28	10	38	—	—	3	19	3	25	—	1	8	—	9	34	89.47%
23	fB.Ed.	165	—	74	91	165	—	—	6	55	10	71	—	6	70	11	87	158	95.75%
24	fDip. in Education	32	3	8	21	29	—	—	1	6	1	8	—	2	16	3	21	29	100.00%
25	fDip. in Early Childhood Edu	20	—	—	20	20	—	—	—	—	—	—	—	—	8	7	16	16	80.00%
26	Prep. Commerce	1172	19	945	208	1153	—	60	262	256	578	—	41	135	72	248	826	72.7%	
27	F.Y.B.Com.	1317	51	1113	204	1317	—	38	183	341	562	—	5	58	73	136	698	55.39%	
28	*S.Y.B.Com.	1175	70	933	172	1105	—	—	—	—	637	637	—	—	143	143	780	70.58%	
29	T.Y.B.Com.	798	23	683	92	775	—	1	27	196	274	498	—	2	32	43	77	575	74.19%
30	*-do-(under O.Com. 25)	11	3	7	1	8	—	—	—	—	5	5	—	—	—	1	1	6	75.00%
31	*-do-(under O.Com. 26)	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00%
32	*-do-(Under O.Com. 27)	25	1	18	6	24	—	—	—	—	13	13	—	—	—	4	4	17	70.83%
33	*M.Com.-Part I	55	7	41	7	48	—	—	—	—	35	35	—	—	—	7	7	42	87.50%
34	M.Com. (O. C.)	31	1	23	7	30	—	—	—	—	10	18	—	—	5	2	7	25	83.33%
35	*P.G.Dip. in Banking	48	6	32	10	42	—	—	—	—	24	24	—	—	—	8	8	32	84.21%
36	*P.G.Dip. in Co-operation	6	3	1	2	3	—	—	—	—	—	—	—	—	—	—	—	—	66.66%
37	*U.G.Dip. in Co-operation	6	1	4	1	1	—	—	—	—	—	—	—	—	—	—	—	—	100.00%
38	*II M.B.B.S.	123	—	109	14	123	—	—	—	—	63	63	—	—	—	1	1	4	80.00%
39	*II M.B.B.S. (July, 1972)	56	—	49	7	56	—	—	—	—	42	42	—	—	—	6	6	69	56.09%
40	*III M.B.B.S.	59	—	53	6	59	—	—	—	—	37	37	—	—	—	4	4	41	69.49%
41	*III M.B.B.S. (Condensed)	4	—	3	1	4	—	—	—	—	2	2	—	—	—	1	1	3	75.00%
42	*M.D. (Br. I—Medicine)	6	—	6	—	—	—	—	—	—	2	2	—	—	—	—	—	2	33.33%
43	*M.D. (Br. II—Pathology)	1	—	1	—	—	—	—	—	—	1	1	—	—	—	—	—	1	100.00%
44	*M.D. (Br. III—Pharmacology)	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
45	*M.D. (Br. V—Obst. & Gyna.)	4	—	4	—	—	—	—	—	—	2	2	—	—	—	—	—	2	50.00%
46	*M.D. (Br. VI—Paediatrics)	2	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	50.00%
47	*M.S. (Br. I—Surgery)	8	—	8	—	—	—	—	—	—	—	5	—	—	—	—	—	5	45.45%
48	*M.S. (Br. II—Anatomy)	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
49	*M.S. (Br. III—Ortho.)	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	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	*Dip. in Lab. Techniques	4	—	3	1	4	—	—	—	3	3	—	—	—	1	1	4	100.00%
51	*Dip. in Ophthalmology	2	—	1	1	2	—	—	—	1	1	—	—	—	1	1	2	100.00%
52	*Dip. in Anaesthesiology	2	—	—	2	2	—	—	—	—	—	—	—	—	2	2	2	100.00%
53	*Dip. in Child Health	3	1	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
54	*Dip. in Venereology & Dermatology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
55	*Dip. in Clinical Pathology	3	—	1	2	3	—	—	—	—	—	—	—	—	—	—	0	00.00%
56	*Dip. in Tuberculous Diseases	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
57	*Dip. in Obstetrics & Gynaecology	7	—	1	6	7	—	—	—	—	—	—	—	—	5	5	71.42%	
58	M.Sc. (Medical)—Part I	8	—	7	1	8	—	—	—	4	4	—	—	—	—	—	4	50.00%
59	M.Sc. (Medical)—Part II	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100.00%
60	*F.Y.B. Physiotherapy	14	—	8	6	14	—	—	—	4	4	—	—	—	3	3	7	50.00%
61	*S.Y.B. Physiotherapy	11	—	5	6	11	—	—	—	2	2	—	—	—	3	3	5	45.45%
62	*T.Y.B. Physiotherapy	3	—	2	1	3	—	—	—	2	2	—	—	—	1	1	3	100.00%
63	*F.Y.B. Physiotherapy (Suppl.)—June, 1972	4	—	2	2	4	—	—	—	2	2	—	—	—	2	2	4	100.00%
64	*S.Y.B. Physiotherapy (Suppl.)—June, 1972	6	—	2	4	6	—	—	—	2	2	—	—	—	4	4	6	100.00%
65	F.Y. Dip. (CME)	344	3	340	1	341	—	7	42	75	124	—	—	—	—	—	124	36.57%
66	S.Y. Dip. (CME)	276	2	274	—	274	—	14	44	68	126	—	—	—	—	—	126	46.7%
67	*I Sem. of S.Y. Dip. (CME)—Extd. Course	49	2	47	—	47	—	—	—	19	19	—	—	—	—	—	19	40.42%
68	II Sem. of S.Y. Dip. (CME)—Extd. Course	65	1	64	—	64	—	2	6	19	27	—	—	—	—	—	27	42.18%
69	*I Sem. of Final Year D.C.E.—Extd. Course	5	—	5	—	5	—	—	—	1	1	—	—	—	—	—	1	20.00%
70	*I Sem. of Final Year D.M.E.—Extd. Course	22	6	16	—	16	—	—	—	8	8	—	—	—	—	—	8	50.00%
71	*I Sem. of Final Year D.E.E.—Extd. Course	26	4	22	—	22	—	—	—	5	5	—	—	—	—	—	5	22.72%

* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
72	II Sem. of Final Year D.C.E.—Extd. Course	6	—	6	—	6	—	—	—	2	2	—	—	—	—	—	2	33.33%
73	II Sem. of Final Year D.M.E.—Extd. Course	16	4	12	—	12	—	—	3	3	6	—	—	—	—	—	6	50.00%
74	II Sem. of Final Year D.E.E.—Extd. Course	22	11	11	—	11	—	—	—	4	4	—	—	—	—	—	4	36.36%
75	Diploma in Civil Engg.	51	—	51	—	51	—	6	16	21	43	—	—	—	—	—	43	84.31%
76	Diploma in Mech. Engg.	144	6	138	—	138	—	10	43	38	91	—	—	—	—	—	91	65.94%
77	*Diploma in Mech. Engg. (Under O.T.E. 155)	45	2	43	—	43	—	—	—	39	39	—	—	—	—	—	39	93.02%
78	Diploma in Elect. Engg.	80	3	77	—	77	—	3	9	28	40	—	—	—	—	—	40	51.94%
79	*Diploma in Elect. Engg. (Under O.T.E. 162)	71	2	69	—	69	—	—	—	49	49	—	—	—	—	—	49	71.01%
80	D.T.C.	22	—	22	—	22	—	3	3	3	9	—	—	—	—	—	9	40.9%
81	D.T.C. (Under O.T.E. 184)	79	4	75	—	75	—	11	40	13	64	—	—	—	—	—	64	85.33%
82	D.T.T.	31	—	31	—	31	—	3	15	5	23	—	—	—	—	—	23	79.31%
83	*I Sem. of F.Y. Dip. (OPF)	47	—	47	—	47	—	—	—	39	39	—	—	—	—	—	39	82.97%
84	II Sem. of F.Y. Dip. (OPF)	95	—	95	—	95	—	6	26	44	76	—	—	—	—	—	76	80.00%
85	*I Sem. of S.Y. Dip. (OPF)	79	—	79	—	79	—	—	—	71	71	—	—	—	—	—	71	89.87%
86	F.Text. (Engg. & Tech.)	47	—	47	—	47	—	1	6	19	9	35	—	—	—	—	35	74.46%
87	S.Text. (Engg. & Tech.)	65	—	65	—	65	—	—	—	26	12	38	—	—	—	—	38	58.46%
88	T.Text. (Engg.)	9	—	9	—	9	—	3	5	—	—	8	—	—	—	—	8	88.88%
89	T.Text. (Tech.)	30	—	30	—	30	—	2	6	14	—	22	—	—	—	—	22	73.33%
90	B.Text. (Engg.)	16	1	15	—	15	—	15	6	8	—	14	—	—	—	—	14	93.33%
91	B.Text. (Tech.)	37	—	37	—	37	—	1	1	27	4	33	—	—	—	—	33	89.2%
92	*M.Text.—Part I	4	—	4	—	4	—	—	—	—	4	4	—	—	—	—	4	100.00%
93	*M.Text.—Part III	4	—	4	—	4	—	—	—	—	4	4	—	—	—	—	4	100.00%
94	*I Sem. of B.E. I (CME., Chem., Met.)	218	1	217	—	217	—	—	—	98	98	—	—	—	—	—	98	45.16%
95	II Sem. of B.E. I (CME., Chem., Met.)	472	2	470	—	470	—	17	40	147	72	276	—	—	—	—	276	58.72%

*No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
96	*I Sem. of B.E. II (CME., Chem., Met.)	106	3	103	—	103	—	—	—	56	56	—	—	—	—	—	56	54.37%
97	II Sem. of B.E. II (CME., Chem., Met.)	347	1	346	—	10	—	44	137	51	242	—	—	—	—	—	242	70.35%
98	*I Sem. of B.E. III (CME., Chem., Met.)	126	1	125	—	125	—	—	—	73	73	—	—	—	—	—	73	61.66%
99	II Sem. of B.E. III (CME., Chem., Met.)	339	1	338	—	338	20	54	130	56	260	—	—	—	—	—	260	77.31%
100	*I Sem. of B.E. IV (CME., Chem., Met.)	50	1	49	—	49	—	—	—	30	30	—	—	—	—	—	30	62.50%
101	II Sem. of B.E. IV (CME., Chem., Met.)	368	1	367	—	367	67	69	145	46	327	—	—	—	—	—	327	90.18%
102	*I Sem. of B.E. V (Civil)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
103	*I Sem. of B.E. V (Mech.)	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%
104	*I Sem. of B.E. V (Elect.)	9	1	8	—	8	—	—	—	6	6	—	—	—	—	—	6	75.00%
105	*I Sem. of B.E. V (Chem.)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	0	0.00%
106	*I Sem. of B.E. V (Met.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
107	II Sem. of B.E. V (Civil)	87	—	84	3	87	14	27	41	1	83	—	3	—	—	3	86	98.86%
108	II Sem. of B.E. V (Mech.)	109	—	109	—	109	37	43	26	—	106	—	—	—	—	—	106	97.24%
109	II Sem. of B.E. V (Elect.)	87	—	87	—	87	6	34	34	1	75	—	—	—	—	—	75	86.20%
110	II Sem. of B.E. V (Chem.)	41	1	40	—	40	21	14	3	—	38	—	—	—	—	—	38	95.00%
111	II Sem. of B.E. V (Met.)	55	—	55	—	55	21	19	11	2	53	—	—	—	—	—	53	96.36%
112	II Sem. of B.E. V (Electro.)	17	—	17	—	17	5	9	3	—	17	—	—	—	—	—	17	100.00%
113	*I Sem. of B.E. I (Electro.)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	0	000.00%
114	II Sem. of B.E. I (Electro.)	24	—	24	—	24	1	8	12	—	21	—	—	—	—	—	21	87.50%
115	*I Sem. of B.E. II (Electro.)	9	—	9	—	9	—	—	—	8	8	—	—	—	—	—	8	88.88%
116	II Sem. of B.E. II (Electro.)	24	—	24	—	24	—	—	7	5	12	—	—	—	—	—	12	50.00%
117	II Sem. of B.E. III (Electro.)	12	—	12	—	12	2	—	10	—	12	—	—	—	—	—	12	100%
118	*M.E.—Part I (Civil)	11	—	11	—	11	—	—	—	5	5	—	—	—	—	—	5	45.45%
119	*M.E.—Part I (Mech.)	13	2	11	—	11	—	—	—	9	9	—	—	—	—	—	9	81.81%
120	*M.E.—Part I (Elect.)	7	1	6	—	6	—	—	—	3	3	—	—	—	—	—	3	50.50%

* No. Class is awarded.

121	*M.E.—Part II (Civil)	3	—	3	—	3	—	—	—	—	3	—	—	—	—	—	3	100.00%
122	*M.E.—Part II (Mech)	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100.00%
123	*M.E.—Part II (Elect.)	2	—	2	—	2	—	—	—	—	1	—	—	—	—	—	1	50.00%
124	*M.E.—Part III (Civil)	4	—	4	—	4	—	—	—	—	4	—	—	—	—	—	4	100.00%
125	*M.E.—Part III (Mech.)	8	—	8	—	8	—	—	—	—	8	—	—	—	—	—	8	100.00%
126	*M.E.—Part III (Elect.)	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	4	100.00%
127	M.E.—Part IV (Civil)	6	2	4	—	4	—	1	3	—	—	—	—	—	—	—	4	100.00%
128	M.E.—Part IV (Mech.)	4	—	4	—	4	—	—	4	—	—	—	—	—	—	—	4	100.00%
129	M.E.—Part IV (Elect.)	3	1	2	—	2	—	1	1	—	—	—	—	—	—	—	2	100.00%
130	*P.G.Dip. in Ref. & Air Cond.— Part I	6	3	3	—	3	—	—	—	—	2	—	—	—	—	—	2	66.66%
131	P.D.Dip. in Ref. & Air Cond.— Part II	1	—	1	—	1	—	1	—	—	—	—	—	—	—	—	1	100.00%
132	*I Sem. of Post. Dip. in Ref. & Air Cond.	2	—	2	—	2	—	—	—	—	2	—	—	—	—	—	2	100.00%
133	II Sem. of Post. Dip. in Ref. & Air Cond	10	—	10	—	10	—	2	6	1	—	9	—	—	—	—	9	90.00%
134	*I Sem. of F.Y.B Arch.	11	—	9	—	2	11	—	—	—	9	—	—	—	—	—	2	11 100.00%
135	II Sem. of F.Y.B Arch.	41	—	34	—	7	41	—	1	4	—	3	22	—	5	2	7 29 70.73%	
136	Third Year B.Arch.	55	3	41	—	11	52	—	—	1	13	12	26	—	—	3	1 4 30 56.60%	
137	B.Arch.	61	5	4	—	14	56	—	—	2	6	14	—	2	8	3	13 27 51.29%	
138	I LL.B. (General)	393	106	255	—	32	287	—	—	—	43	36	79	—	—	8	1 9 88 30.66%	
139	II LL.B. (General)	108	14	86	—	8	94	—	—	—	46	12	58	—	—	7	1 8 66 70.21%	
140	LL.B. (Special)	33	3	24	—	6	30	—	—	—	14	1	15	—	—	4	1 5 20 42.10%	
141	*D.T.P.	79	13	58	—	8	66	—	—	—	—	—	—	—	—	—	2 24 42.10%	
142	*D.L.P.	58	11	43	—	4	47	—	—	—	—	19	19	—	—	2	2 21 47.72%	
143	LL.M.	19	3	15	—	1	16	—	—	—	4	—	—	—	—	1	5 31.2%	
144	M.A. (Fine)—Painting	2	—	1	—	1	2	—	—	—	—	—	—	—	—	—	1	50.00%
145	M.A. (Fine)—Sculpture	1	—	1	—	—	1	—	—	—	1	—	—	—	—	—	1	100.00%
146	M.A. (Fine)—Painting	8	1	2	—	5	7	—	—	—	—	—	—	—	—	4	5 71.42%	
147	M.A. (Fine)—Sculpture	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%
148	B.A. (Fine)—Appl. Arts	11	—	9	—	2	11	—	—	—	4	5	9	—	—	1	2 11 100.00%	
149	Post Dip. in Painting	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%
150	Post Dip. Sculpture	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%

* 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	Post Dip.-Graphic Arts	1	—	—	1	1	—	—	—	—	—	—	1	—	—	1	1	100.00%
152	Dip. in Painting	3	—	3	—	3	—	2	—	—	2	—	—	—	—	—	2	66.66%
153	Dip. in Sculpture	2	—	2	—	2	—	—	2	—	2	—	—	—	—	—	2	100.00%
154	Dip. in Appl. Arts	9	—	7	2	9	—	1	2	4	7	—	—	—	2	2	9	100.00%
155	M.Mus.	4	—	—	4	4	—	—	—	—	—	—	3	1	—	4	4	100.00%
156	B.Mus.	13	1	2	10	12	1	1	—	—	2	3	4	3	—	10	12	100.00%
157	Dip. in Music	28	1	19	8	27	—	2	10	2	14	—	4	3	1	8	22	81.48%
158	Dip. in Dance	7	—	—	7	7	—	—	—	—	—	—	3	—	3	6	6	85.71%
159	Dip. in Dramatics	5	—	5	—	5	—	2	—	—	4	—	—	—	—	—	4	80.00%
160	*P.G. Dip. in Museology	5	—	5	—	5	—	—	—	4	4	—	—	—	—	—	4	80.00%
161	B.Sc. (Home)	131	6	—	125	125	—	—	—	—	—	—	†28	†70	§7	105	105	80.24%
162	M.Sc. (Home)	17	1	—	16	16	—	—	—	—	—	—	†7	†9	—	16	16	100.00%
163	P.G.Dip. in Dietetics	11	—	—	11	11	—	—	—	—	—	—	†5	†5	—	10	10	90.9%
164	P.G.Dip. in Nursery School Education	13	—	—	13	13	—	—	—	—	—	—	—	—	—	7	7	53.8%
165	M.S.W.	38	—	20	18	38	—	—	—	—	—	—	—	—	—	16	33	81.57%
166	*Ph.D. (Arts)	5	—	5	—	5	—	—	—	5	5	—	—	—	—	—	5	100.00%
167	*Ph.D. (Science)	14	—	13	1	14	—	—	—	13	13	—	—	—	1	1	14	100.00%
168	*Ph.D. (Edu.)	4	—	2	2	4	—	—	—	2	2	—	—	—	2	2	4	100.00%
169	*Ph.D. (Medical)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
170	*Ph.D. (Fine Arts)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
171	*Ph.D. (Technology)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%

* No Class is awarded.

† Passes in 'A' Grade

‡ Passes in 'B' Grade

§ Passes in 'C' Grade

Results of the University Examinations, October-November 1972.

Appendix VII

Sr. No.	Examination	Number appeared		Number passed																	Percentage of passes	
		No. Regd.	No. Absent	Men		Women																
				I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	Grand Total									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
1	Prep. Arts	387	24	253	110	363	—	—	—	6	114	120	—	—	1	51	52	172	47.38%			
2	F.Y.B.A.	318	31	186	101	287	—	—	—	2	113	115	—	—	1	64	65	180	62.72%			
*3	S.Y.B.A.	298	25	157	116	273	—	—	—	—	88	88	—	—	—	67	67	155	56.76%			
4	B.A. (Final)	77	10	40	27	67	—	—	—	—	22	22	—	—	3	16	19	41	61.19%			
5	Prep. Science	219	9	173	37	210	—	1	54	55	110	—	—	—	10	16	26	136	65.38%			
6	F.Y.B.Sc.	121	5	94	22	116	—	—	—	1	55	56	—	—	—	18	18	74	63.79%			
*7	S.Y.B.Sc.	154	13	114	27	141	—	—	—	—	63	63	—	—	—	13	13	76	53.90%			
8	B.Sc. (Final)	96	8	75	13	88	—	—	—	1	25	40	—	—	3	4	7	47	53.41%			
9	Prep. Commerce	254	11	204	39	243	—	—	—	8	93	101	—	—	—	22	22	123	50.61%			
10	F.Y.B.Com.	512	45	413	54	467	—	—	—	—	157	157	—	—	—	33	33	190	40.77%			
*11	S.Y.B.Com.	358	52	281	25	306	—	—	—	—	128	128	—	—	—	16	16	144	47.07%			
12	B.Com. (Final)	151	27	113	9	124	—	—	1	4	39	43	—	—	1	1	2	50	40.33%			
*13	B.Com. (Under O.Com. 25)	11	4	5	2	7	—	—	—	—	3	3	—	—	—	1	1	4	57.14%			
*14	B.Com. (Under O.Com. 27)	13	2	11	—	11	—	—	—	—	5	5	—	—	—	—	5	45.45%				
*15	First M.B.B.S. (Sept., '72)	156	—	135	21	156	—	—	—	—	84	84	—	—	—	13	13	53	62.17%			
*16	First M.B.B.S. (Suppl.)— December, 1972.	58	1	49	8	57	—	—	—	—	35	35	—	—	—	8	8	39	72.22%			
*17	Final M.B.B.S.	119	1	108	10	118	—	—	—	—	80	80	—	—	—	7	7	87	73.89%			
*18	do (Contd.)	6	—	4	2	6	—	—	—	—	1	1	—	—	—	—	—	1	16.66%			
*19	M.D. (Br. I—Medicine)	11	2	9	—	9	—	—	—	—	2	2	—	—	—	—	—	2	22.22%			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*20 M.D. (Br. II)—Pathology	1	—	—	—	1	1	1	—	—	—	—	—	—	—	—	1	1	1	100%
*21 M.D. (Br. III)—Pharmacology	1	—	—	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%
*22 M.D. (Br. V)—Obst. & Gyn.	6	1	—	—	5	—	5	—	—	—	—	—	—	—	—	5	5	5	100%
*23 M.D. (Br. VI)—Pediatrics	3	—	—	—	3	—	3	—	—	—	1	1	—	—	—	—	—	1	33.33%
*24 M.D. (Br. VII)—Anaesthesia	1	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*25 M.D. (Br. III)—Preventive & Social Medicine	2	—	—	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
*26 M.D. (Br. IX)—Radio Diagnosis	2	—	—	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
*27 M.S. (Br. I)—Surgery	6	—	—	—	5	1	6	—	—	—	3	3	—	—	—	1	1	4	66.66%
*28 M.S. (Br. III)—Orthopaedics	3	—	—	—	3	—	3	—	—	—	1	1	—	—	—	—	—	2	66.66%
*29 M.S. (Br. IV)—E.N.T.	1	—	—	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
*30 M.S. (Br. V)—Ophthalmology	1	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	0	00.00%
31 M.Sc. (Medical)—Part I	10	—	—	—	6	4	10	—	—	—	4	4	—	—	—	4	4	8	66.66%
32 M.Sc. (Medical)—Part II	3	—	—	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	100%
*33 Diploma in Anaesthesiology	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	1	1	1	100%
*34 Diploma in Venereology and Dermatology	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
*35 D.M.R.D.—Part I	1	—	—	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*36 Diploma in Child Health	3	—	—	—	2	1	3	—	—	—	1	1	—	—	—	—	—	1	33.33%
*37 Diploma in Tuberculosis Diseases	1	—	—	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
*38 Diploma in Clinical Pathology	5	—	—	—	3	2	5	—	—	—	2	2	—	—	—	2	2	4	80.00%
*39 Diploma in Gynaecology & Obstetrics.	4	—	—	—	1	3	4	—	—	—	1	1	—	—	—	2	2	3	75.00%
40 F.Y. Diploma (C.M.E.)	191	12	179	—	179	—	—	—	—	—	65	65	—	—	—	—	—	65	36.30%
41 S.Y. Diploma (C.M.E.)	132	2	130	—	130	—	—	—	—	—	47	47	—	—	—	—	—	47	36.50%
*42 I .Sem. of S.Y. Dip. (CME)— Extd. Course	97	13	84	—	84	—	—	—	—	—	9	9	—	—	—	—	—	9	10.84%

* No Class is awarded

43 II Sem. of S.Y. Dip. (CME)— Extd. Course	29	—	29	—	29	—	—	—	—	—	5	5	—	—	—	—	—	—	5	17.3%
*44 I Sem. of Final Year D.C.E.— Extd. Course	3	—	3	—	3	—	—	—	—	—	2	2	—	—	—	—	—	—	2	66.66%
*45 I Sem. of Final Year D.M.E.— Extd. Course	10	5	5	—	5	—	—	—	—	—	1	1	—	—	—	—	—	—	1	20.00%
*46 I Sem. of Final Year D.E.E.— Extd. Course	17	2	15	—	15	—	—	—	—	—	6	6	—	—	—	—	—	—	6	40.00%
47 II Sem. of Final Year D.C.E. Extd. Course	6	—	6	—	6	—	—	—	—	—	2	2	—	—	—	—	—	—	2	33.33%
48 II Sem. of Final Year D.M.E. Extd. Course	18	8	10	—	10	—	—	—	—	—	7	7	—	—	—	—	—	—	7	70.00%
49 II Sem. of Final Year D.E.E. Extd. Course	20	5	15	—	15	—	—	—	—	—	8	8	—	—	—	—	—	—	8	53.33%
50 I Sem. of F.Y. Dip. (OPF)	52	2	50	—	50	—	—	—	—	—	39	39	—	—	—	—	—	—	39	78.00%
51 II Sem. of F.Y. Dip. (OPF)	16	—	16	—	16	—	—	—	—	—	8	8	—	—	—	—	—	—	8	50.00%
52 I Sem. of S.Y. Dip. (OPF)	93	—	93	—	93	—	—	—	—	—	68	68	—	—	—	—	—	—	68	73.12%
53 II Sem. of S.Y. Dip. (OPF)	80	—	76	4	80	—	—	—	—	—	14	35	19	68	—	3	1	4	72	90.00%
54 Diploma in Civil Engg.	8	1	7	—	7	—	—	—	—	—	2	1	3	—	—	—	—	—	3	42.85%
55 Diploma in Mechanical Engg.	47	7	40	—	40	—	—	—	—	—	1	2	10	13	—	—	—	—	13	32.50%
*56 Diploma in Mechanical Engg. (Under O.T.E. 155)	7	1	6	—	6	—	—	—	—	—	—	2	—	—	—	—	—	—	2	33.33%
57 Diploma in Electrical Engg.	33	5	28	—	28	—	—	—	—	—	1	11	12	—	—	—	—	—	12	39.02%
*58 Diploma in Electrical Engg. (Under O.T.E. 162)	19	6	13	—	13	—	—	—	—	—	—	4	4	—	—	—	—	—	4	30.85%
59 Diploma in Textile Chemistry	9	—	9	—	9	—	—	—	—	—	1	3	4	—	—	—	—	—	4	44.44%
60 Diploma in Textile Chemistry (Under O.T.E. 184)	11	4	7	—	7	—	—	—	—	—	1	2	3	—	—	—	—	—	3	42.85%
61 Diploma in Textile Technology	7	1	6	—	6	—	—	—	—	—	—	1	1	—	—	—	—	—	1	16.25%
62 F. Text. (Engg. & Tech.)	11	—	11	—	11	—	—	—	—	—	—	7	7	—	—	—	—	—	7	63.63%
63 S. Text. (Engg. & Tech.)	25	1	24	—	24	—	—	—	—	—	—	12	12	—	—	—	—	—	12	50.50%
64 T. Text. (Engg.)	2	—	2	—	2	—	—	—	—	—	—	2	2	—	—	—	—	—	2	100%
65 T. Text. (Tech.)	7	—	7	—	7	—	—	—	—	—	—	5	5	—	—	—	—	—	5	71.42%
66 B. Text. (Engg.)	2	—	2	—	2	—	—	—	—	—	—	1	1	—	—	—	—	—	1	50.00%
67 B. Text. (Engg.)	4	—	4	—	4	—	—	—	—	—	—	3	3	—	—	—	—	—	3	75.00%

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*68	I Sem. of B.E. I (CME Chem. Met.)	509	5	502	2	504	—	—	—	372	372	—	—	—	—	—	372	73.80%
69	II Sem. of B.E. I (CME Chem. Met.)	143	1	142	—	142	—	—	—	89	89	—	—	—	—	—	89	62.67%
*70	I Sem. of B.E. II (CME Chem. Met.)	426	2	423	1	424	—	—	—	263	263	—	—	—	—	—	263	62.03%
71	II Sem. of B.E. II (CME Chem. Met.)	86	2	83	1	84	—	—	—	47	47	—	—	—	—	—	47	55.95%
*72	I Sem. of B.E. III (CME Chem. Met.)	351	2	349	—	349	—	—	—	242	242	—	—	—	—	—	242	69.34%
73	II Sem. of B.E. III (CME Chem. Met.)	62	4	58	—	58	—	—	—	32	32	—	—	—	—	—	32	51.61%
*74	I Sem. of B.E. IV (CME Chem. Met. Electro.)	344	5	337	2	339	—	—	—	267	267	—	—	—	2	2	269	79.35%
75	II Sem. of B.E. IV (CME Chem. Met. Electro.)	34	4	30	—	30	—	—	—	20	20	—	—	—	—	—	20	66.66%
*76	I Sem. of B.E. V (Civil)	81	—	81	—	81	—	—	—	80	80	—	—	—	—	—	80	98.86%
*77	I Sem. of B.E. V (Mech.)	96	1	95	—	95	—	—	—	—	95	—	—	—	—	—	95	100.00%
*78	I Sem. of B.E. V (Elect.)	73	4	69	—	69	—	—	—	62	62	—	—	—	—	—	62	89.76%
*79	I Sem. of B.E. V (Chem.)	46	1	45	1	45	—	—	—	36	36	—	—	1	1	1	37	95.13%
*80	I Sem. of B.E. V (Met.)	41	—	41	—	41	—	—	—	39	39	—	—	—	—	—	39	98.15%
*81	I Sem. of B.E. V (Electro.)	17	—	17	—	17	—	—	—	17	17	—	—	—	—	—	17	100.00%
82	II Sem. of B.E. V (Mechanical)	2	—	2	—	2	—	—	2	2	2	—	—	—	—	—	2	100.00%
83	II Sem. of B.E. V (Electrical)	12	2	10	—	10	—	1	6	2	9	—	—	—	—	—	9	90.00%
84	II Sem. of B.E. V (Chem.)	4	1	3	—	3	—	1	1	—	2	—	—	—	—	—	2	66.66%
85	II Sem. of B.E. V (Met.)	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	00.00%
*86	I Sem. of B.E. I (Electro.)	28	—	28	—	28	—	—	—	24	24	—	—	—	—	—	24	85.71%
87	II Sem. of B.E. I (Electro.)	3	1	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
*88	I Sem. of B.E. II (Electro.)	22	—	22	—	22	—	—	—	20	20	—	—	—	—	—	20	90.90%
89	II Sem. of B.E. II (Electro.)	11	1	10	—	10	—	—	—	6	6	—	—	—	—	—	6	60.00%
*90	I Sem. Final B.E. III (Electronics)	20	1	19	—	19	—	—	—	13	13	—	—	—	—	—	13	68.42%

*91	M.E. (Civil)—Part I (October 1972)	6	—	6	—	6	—	—	—	—	6	6	—	—	—	—	6	100%
*92	M.E. (Mech.)—Part I (October 1972)	3	—	3	—	3	—	—	—	—	2	2	—	—	—	—	2	66.66%
*93	M.E. (Elec.)—Part I (October 1972)	3	—	3	—	3	—	—	—	—	3	3	—	—	—	—	3	100%
*94	M.E. (Civil.)—Part II (October 1972)	9	4	5	—	5	—	—	—	4	4	—	—	—	—	—	4	80.00%
*95	M.E. (Mech.)—Part II (October 1972)	10	—	10	—	10	—	—	—	8	8	—	—	—	—	—	8	80.00%
*96	M.E. (Elec.)—Part II (October 1972)	7	4	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
*97	M.E. (Civil)—Part III (Octo. 1972)	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
*98	M.E. (Mech.)—Part III (Octo. 1972)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
99	M.E. (Civil)—Part IV (Octo. 1972)	3	—	3	—	3	—	1	1	—	—	—	—	—	—	—	2	66.66%
100	M.E. (Mech.)—Part IV (Octo. 1972)	5	—	5	—	5	—	—	—	2	—	—	—	—	—	—	2	40.00%
101	M.E. (Elect.)—Part IV (Octo. 1972)	1	—	1	—	1	—	—	—	1	—	—	—	—	—	—	1	100.00%
102	M.E. (Civil)—Part IV (Aug. 1972)	2	—	2	—	2	—	—	—	2	—	—	—	—	—	—	2	100%
103	M.E. (Mech.)—Part IV (Aug. 1972)	2	—	2	—	2	—	—	—	2	—	—	—	—	—	—	2	100%
104	M.E. (Elect.)—Part IV (Aug. 1972)	3	—	3	—	3	—	—	—	1	—	—	—	—	—	—	1	33.33%
105	M.Text (Engg.)—Part II	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.00%
*106	P.G.Dip. in Ref. & Air Cond. —Part I	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
107	P.G.Dip. in Ref. & Air Cond. —Part II	2	—	2	—	2	—	—	—	2	—	—	—	—	—	—	2	100%
*108	I Sem. of P.D.Dip. in Ref. & Air Cond.	8	2	6	—	6	—	—	—	5	5	—	—	—	—	—	5	83.33%
109	II Sem. of P.D.Dip. in Ref. & Air Cond.	2	1	1	—	1	—	—	—	1	—	—	—	—	—	—	1	100%
110	I Sem. of F.Y.B.Arch.	41	—	30	11	41	—	—	—	28	28	—	—	—	—	10	38	62.68%
111	II Sem. of F.Y.B.Arch.	11	—	11	—	11	—	—	—	10	10	—	—	—	—	—	10	90.90%
112	I Sem. of S.Y.B.Arch.	39	—	32	7	39	—	—	—	20	20	—	—	—	—	7	27	69.23%

II—Ayurvedic Research Fund (Subject to Audit)

1972-73

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1972	12,43,768-94		Amount transferred for the excess recurring expenditure of the Unit over and above the State Government Grant		8,607-26
Interest			Closing Balance		12,88,534-40
	Total	12,97,141-66		Total	12,97,141-66

III—Post-graduate Instruction and Research Fund (Subject to Audit)

1972-73

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1972	47,46,641-29		(i) Expenditure on Research grants		9,325-84
Interest	1,70,062-81		(ii) Research Assistants		24,693-58
			(iii) Two Post-Doctoral Fellows @ Rs. 400/- p.m. each		800-00
			(iv) 12 Scholarships of Rs. 250/- p.m. each and contingent grant of Rs. 500/- p.a. scholar		16,032-13
			Closing Balance		48,65,852-55
	Total	49,16,704-10		Total	49,16,704-10

272

REVENUE ACCOUNTS

(Subject to Audit)
1972-73

Appendix IX

Sr. No.	Particulars	Receipts Rs.	P.	Sr. No.	Particulars	Disbursements Rs.	P.
1	2	3		1	2	3	
I	Grants from the State Government			I	Administration		
(1 to 2)		95,68,251-60		II	Examination Charges	5,77,170-87	
(1)	Block Grant from the State Government			III	Publications	8,89,253-14	
(2)	Additional Block Grants from the State Government	67,76,000-00		IV	Remuneration to Lecturers	40,467-35	
(a)	Towards the expenditure on development Plans, Schemes which have completed five years or stipulated period and hence become 100% liability of the State Government (No Scheme has completed upto 31-3-1973)	—		V	Travelling Allowance	1,000-00	
(b)	100% Grant towards the increase in the rates of Dearness Allowance (from 1-3-1970 and onwards)	—		VI	Printing, Stationery and Postage	50,607-85	
(c)	3½% Grant on the Wage Bill of the preceding year towards annual increments etc.	6,14,134-80		VII	Interest on Bank Overdraft and Loans and Repayment of Loans	83,677-67	
				VIII	Maintenance of Buildings and Roads (including Residential Quarters and N.C.C. Buildings)	5,10,538-01	
				IX	Maintenance of Gardens	3,66,955-93	
				X	Games, Sports and Students' Welfare and Other Activities	53,170-88	
				XI	Miscellaneous (A, B and C)	5,53,195-77	
				(A)	Memberships and Contributions	1,70,272-02	
				(B)	Office Equipment	16,473-44	
				(C)	Other Items	15,721-84	
				XII	Faculties and Institutions	1,38,076-74	
						1,42,09,788-29	

273

1	2	3	1	2	3
(d)	Towards the Third Plan Revision of Salary Scales of the University Teachers in Humanities, Social Sciences and Sciences	2,89,500-00		<i>Faculties:</i> (a) Faculty of Arts (b) Faculty of Science (c) Faculty of Education and Psychology (d) Faculty of Commerce (e) Faculty of Technology and Engineering (f) Faculty of Law (g) Faculty of Fine Arts (h) Faculty of Home Science (i) Faculty of Social Work	14,90,938-80 30,26,397-57 8,03,475-73 6,82,843-79 35,25,387-49 1,67,694-24 5,98,440-93 7,98,860-36 2,80,676-41
(e)	Towards the Fourth Plan Revision of Salary Scales of the University Teachers in Humanities, Social Sciences and Sciences excluding Teachers in Technical and Engineering subjects	2,21,779-80		<i>Institutions:</i> (j) Oriental Institute (k) College of Indian Music, Dance and Dramatics (l) Preparatory Unit: Arts and Commerce (m) Preparatory Unit: Science (n) Sanskrit Mahavidyalaya (o) Shri M. K. Amin Arts and Science College and College of Commerce, Padra	2,15,299-10 4,70,819-33 67,406-77 61,229-81 1,23,425-27 4,21,227-09 13,96,271-82
(f)	Towards the Fourth Plan Revision of Salary Scales of the Teachers in Technical and Engineering subjects (for Five Years from 1-4-1966 to 31-3-1971 payable in 1971-72 and for one year in 1972-73)	—		(p) Polytechnic (q) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	79,393-78
(g)	Towards the additional expenditure on part of the Dearness Allowance merged scales of the Non-Teaching Staff of the University	3,00,000-00			
(h)	Grant from the State Government towards maintenance of M. K. Amin Arts and Science College and College of Commerce, Padra	86,700-00			

1	2	3	1	2	3
II Fees from Students (A + B + C)					
(A) Academic:					
(i) Tuition Fees and Miscellaneous Income from Faculties and Institutions					
(a) Faculty of Arts	63,05,566-69	XIII	University Library		6,52,375-27
(b) Faculty of Science	49,04,169-84	XIV	University Guest House		22,920-89
(c) Faculty of Education and Psychology		XV	University Auxiliary Services		7,49,525-54
(d) Faculty of Commerce	48,51,398-84		(a) M. S. University of Baroda Press (Sadhana Press)		4,99,385-42
(e) Faculty of Technology and Engineering	6,79,956-50		(b) M. S. University Stationery Unit		2,27,745-61
(f) Faculty of Law	9,30,198-56		(c) M. S. University Publication Sales Unit		22,394-51
(g) Faculty of Fine Arts	2,12,019-25	XVI	Halls of Residence for Students		10,16,739-59
(h) Faculty of Home Science	8,40,804-00	XVII	Sheth U. P. Ayurvedic Research Unit		38,607-26
(i) Faculty of Social Work					
<i>Institutions:</i>					
(j) College of Indian Music, Dance and Dramatics	56,648-95				
(k) Preparatory Unit: Arts and Commerce	278-00				
(l) Preparatory Unit: Science	1,728-40				
(m) Sanskrit Mahavidyalaya	20-00				

1	2	3	1	2	3
(n)	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	3,60,484-70 2,14,592-25			
(o)	Polytechnic				
(p)	Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	22,189-50 52,771-00 40,846-00			
(ii)	Fees for Enrolment etc.:	11,925-00			
(a)	For Enrolment Certificates	10,35,708-15			
(b)	For Post-graduate Registration	3,65,688-70			
(B)	Examination Fees				
(C)	Other Fees	5,28,436-50			
III	Income from Halls of Residence for Students	3,04,466-12 42,231-21			
IV	Income from Buildings, Lands and Other Properties	15,493-91 6,43,689-84			
V	Income from Publications				
VI	Health Services—University Health Centre	4,13,542-22			
VII	University Auxiliary Services	2,30,147-62			
(a)	Income from M. S. University of Baroda Press (Sadhana Press)				
(b)	Income from M. S. University Stationery Unit				

1	2	3	1	2	3
VIII	Miscellaneous Receipts	2,00,477-67			
IX	Sheth U. P. Ayurvedic Research Unit	38,607-26			
(1)	State Government Grant	30,000-00			
(2)	Excess Recurring Expenditure met from Ayurvedic Research Fund	8,607-26			
X	Transfer from Insurance Fund towards payment of Insurance Premium	78,804-90			
Total Receipt		1,77,27,025-70	Total Disbursements		1,99,86,266-33
Excess of Disbursements over Receipts i.e. Deficit		22,59,240-63	Grand Total		1,99,86,266-33
Grand Total		1,99,86,266-33	Grand Total		1,99,86,266-33

THE MAHARAJA SAYAJIRAO
Statement of student residents

Faculty/Institution	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Shri Maharshi Arvind Hall	Shri Sardar Patel Hall	Professor T. K. Gajjar Hall	Dr. Jivraj Mehta Hall
Preparatory Science	.. 24	14	21	20	24	19
Preparatory Arts and Commerce	.. 2	4	1	3	2	8
Arts	.. 3	6	5	7	7	6
Commerce	.. 12	9	7	9	15	16
Science	.. 29	30	47	38	19	20
Education and Psychology	.. —	—	—	—	4	2
Technology and Engineering	.. 80	101	82	81	109	69
Polytechnic	.. —	10	6	3	12	11
Medicine	.. 26	14	18	29	31	49
Social Work	.. —	—	—	—	—	1
Fine Arts	.. 1	3	—	2	7	1
Music	.. —	—	3	—	—	—
Law	.. 1	1	—	—	7	—
Home Science	.. —	—	—	—	—	—
Total :	178	192	190	192	237	202

UNIVERSITY OF BARODA
during 1972-73

Lal Bahadur Shastri Hall	Shri Dadabhai Naoroji Hall	Shri Rabindra- nath Tagore Hall	Shri M. Vish- vesaraya Hall	Shri Siddharaj Jaisinh Hall	Total Men Students	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Kasturba Gandhi Hall	Total Women Students	Grand Total
9	—	35	28	28	222	14	7	10	5	36	258
3	—	9	7	7	46	10	4	12	3	29	75
16	3	11	22	11	97	36	40	23	11	110	207
9	12	35	22	47	193	12	16	11	11	50	243
20	21	39	29	22	314	28	31	34	12	105	419
3	3	1	13	—	26	4	5	11	—	20	46
55	21	121	86	102	907	7	9	6	1	23	930
5	—	39	49	68	203	—	—	—	—	—	203
7	1	29	20	35	259	12	12	13	8	45	304
14	—	1	1	3	20	5	4	8	1	18	38
4	6	3	11	3	41	14	6	6	6	32	73
—	—	2	3	1	9	2	—	10	8	20	29
—	7	4	—	8	28	3	1	3	4	11	39
—	2	—	1	—	3	131	88	89	37	345	348
145	76	329	292	335	2368	273	223	236	107	844	3212

**Grants for Development and Research Schemes
1972-73**

<i>Sr. No.</i>	<i>Name of the Agency</i>	<i>Amount of Grant</i>
		Rs.
1.	University Grants Commission	24,94,963
2.	Ministry of Education, Government of India	3,71,435
3.	Ministry of Health, Government of India	1,32,240
4.	Ministry of Defence, Research and Development Organisation, Government of India	1,073
5.	Central Social Welfare Board	1,33,000
6.	Planning Commission, Government of India	—
7.	Council of Scientific and Industrial Research	10,349
8.	Indian Council of Social Science Research	8,579
9.	Government of Gujarat (Matching Grant)	5,66,922
10.	Government of Gujarat (Research and Other Schemes)	3,34,261
11.	United States Department of Agriculture (AM-PL-480 Programme)	4,44,255
12.	Ford Foundation	2,36,993
13.	Unichem Laboratories	10,000
14.	Gujarat Agricultural University	12,000
15.	Wheat Association Project	407
	Total	47,56,477