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M.S. University of Baroda.

Twenty Third
Annual Report

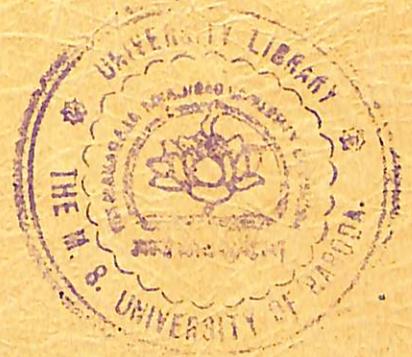
1971-72

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**The Maharaja Sayajirao University
of Baroda**

TWENTY-THIRD ANNUAL REPORT

1971-72



BARODA

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

TWENTY-THIRD ANNUAL REPORT, 1971-72

(1st April, 1971 to 31st March, 1972)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



TWENTY-THIRD ANNUAL REPORT, 1971-72

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 immediate establishment of a Unitary Residential University at Baroda having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration. Besides the Faculties, the University was to have the Institute for Oriental Studies, the Institute for Gujarati Studies, the School of Fine Arts, the School of Nursing and the School of Domestic Science. Provision was also to be made for extension 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 primarily teaching and residential University with power 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-two years, the total enrolment of students in the University has soared up from 2,962 to

16,590 registering an increase of 13,628 or over a five-fold increase. The average yearly increase in the student enrolment since 1949 has been nearly 619.

In 1950, the total number of male students was 3,503. This number has increased to 12,311 in 1971-72 registering a rise of about three times. The rise in the enrolment of women students has been more remarkable. Between 1950 and 1971-72 the enrolment of women students in the University has increased from 484 to 4,279 almost a nine times rise. On an average, the annual increase in the enrolment of women students in the University between 1950 and 1972 is about 194.

The enrolment trends over the last twenty-two 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	-12.4
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

Sex-Ratio in different Faculties: The developmental picture of the sex-ratio in case of students in different Faculties and Institutions of the University for the years 1950-51, 1960-61, 1970-71 and 1971-72 are given below:

	1950-51		1960-61		1970-71		1971-72	
	Men %	Women %						
Arts	72.1	27.9	65.7	34.3	47.5	52.5	43.6	56.4
Science	—	—	87.5	12.5	72.2	27.8	71.0	29.0
Education and Psychology	87.2	12.8	63.0	37.0	39.7	60.3	38.1	61.9
Commerce	—	—	82.6	17.4	82.6	17.4	82.6	17.4
Medicine	89.8	10.2	82.6	17.4	84.0	16.0	84.0	16.0
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	74.6	25.4
Home Science	—	100.0	—	100.0	0.1	99.9	0.3	99.7
Social Work	85.8	14.2	75.0	25.0	56.0	44.0	57.0	43.0
Law	—	—	—	—	89.3	10.7	88.0	12.0
College of Indian Music, Dance and Dramatics	80.0	20.0	63.3	36.7	44.1	55.9	46.7	53.3
Baroda Sanskrit Mahavidyalaya	—	—	85.7	14.3	80.3	20.0	83.3	16.7
Preparatory Units	—	—	80.7	19.3	75.2	24.8	72.5	27.5
Polytechnic	—	—	99.6	0.4	99.4	0.6	99.7	0.3
Shri M. K. Amin Arts & Science College and College of Commerce, Padra	—	—	—	—	90.8	9.2	87.1	12.9

Student Enrolment in Post-graduate Courses: The enrolment of students in various post-graduate courses in different Faculties and Institutions of the University has been showing a steady rise right from 1950. In 1950-51, the enrolment in the post-graduate courses was 304, which has gone on increasing year by year and became 1,481 in 1971-72, registering an over-all increase of 1,177. The average annual increase in the past twenty-two years has been about 53 students. The number of post-graduate men students between 1950-51 and 1971-72 has increased by 763, and the women students by 414.

Growth of Enrolment in Degree Courses: In 1950-51 there were 2,161 students reading in the under-graduate classes of the different faculties and institutions of the University. The figure for 1971-72 is 13,374. Thus, the

under-graduate student population of the University has increased by 11,213 showing a six times increase between 1950-51 and 1971-72. The increase in case of men students and women students during the same period is 7,758 and 3,455 respectively.

Percentages

(Facultywise in reference to the total number of students in the University)

Faculty	1967-68	1968-69	1969-70	1970-71	1971-72
Arts	12.3	11.6	12.4	12.2	12.9
Science	8.0	9.6	9.9	9.9	9.5
Education and Psychology	2.7	2.9	2.4	2.8	2.7
Commerce	10.6	11.6	11.9	14.7	14.7
Medicine	5.7	4.7	4.6	4.7	4.6
Technology and Engineering	19.3	18.5	17.9	17.1	15.8
Fine Arts	1.5	1.5	1.3	1.3	1.3
Home Science	4.2	4.2	4.3	4.3	4.7
Social Work	0.5	0.5	0.5	0.5	0.6
Law	3.5	3.5	3.6	3.9	4.5
Preparatory Unit—Arts and Commerce	10.1	11.7	12.0	9.3	9.4
Preparatory Unit—Science	7.9	7.5	6.9	6.9	6.4
M. K. Amin Arts and Science College and College of Commerce, Padra	2.6	2.9	4.1	4.1	4.8
College of Indian Music, Dance and Dramatics	0.4	0.6	0.5	0.4	0.5
Sanskrit Mahavidyalaya	0.3	0.3	0.3	0.3	0.3
Polytechnic	9.8	8.5	7.4	7.7	7.3
	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 914 (including 115 teachers of Medical College) as against the total student enrolment of 16,590. This gives an over-all teacher-student ratio of 1:18.1. The corresponding strength

of University teachers and staff-student ratio over the last five years is indicated below:

Year	No. of University Teachers	Student Enrolment	Staff-Student Ratio
1967-68	874	14,235	1:16.2
1968-69	856	14,396	1:16.8
1969-70	867	15,311	1:17.6
1970-71	887	15,930	1:17.9
1971-72	914	16,590	1:18.1

Hostel and Health Services

Halls of Residence: With the rapid increase in student enrolment, the pressure of demand from students for accommodation in the University Halls of Residence has been on the increase. The University has been taking all possible steps to expand the hostel facilities for the students. At its start in 1949, the University had accommodation for only 400 men students and no accommodation for women students. At the end of the year under review there were 11 halls for men and 4 for women students. There were 2,358 men students and 871 women students in different halls. The percentage of students residing in the University hostels works out to be 19.4. The corresponding figures for the previous five years are as under:

Year	Students residing in Hostels			Percentage of Resident students to the Total Enrolment
	Men	Women	Total	
1967-68	2059	757	2816	19.8
1968-69	2051	786	2837	19.7
1969-70	2078	788	2866	18.7
1970-71	2225	818	3043	19.1
1971-72	2358	871	3229	19.4

Health Service: The health service facilities and medical treatment provided at the University Health Centre Clinic 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 a period of last five years:

Year	No. of Cases Treated				Total Cases	Daily average Attendance
	Staff and their families	%	Students	%		
1967-68	7,133	36.4	12,413	63.6	19,546	53.4
1968-69	9,507	40.1	14,218	59.9	23,725	65.0
1969-70	12,325	42.1	16,941	57.9	29,266	80.2
1970-71	11,866	37.7	19,543	62.3	31,409	86.0
1971-72	10,764	33.1	21,807	66.9	32,571	90.2

Other Developments

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

The new Faculties of Fine Arts, Home Science and Social Work were established in the year 1950 and the Faculty of Law in 1961. In 1965 a new College—Shri Manibhai Kashibhai Amin Arts and Science College and College of Commerce—was 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 natural sciences. The University introduced the three year degree course in Arts, Science and Commerce and post-graduate courses in Bio-chemistry, Microbiology, Geology and Home Science. The Departments of Archaeology and Ancient History, and Museology were also developed with the help of the grants received from the University Grants Commission. The Department of Education 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. Buildings for teaching purposes, and residential accommodation for students and teachers were also constructed with the help of substantial grants from the University Grants Commission in the Second 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 capacity 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 a limited number of students in Chemical, Electrical, Mechanical and Metallurgical Engineering Degree Courses. The Faculty has also been recognised as a Centre for Technical Teachers' Training. 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 new institution called the Polytechnic was established in the year 1957 to conduct Diploma Courses in Civil, Mechanical and Electrical Engineering. Two schemes approved by the All India Council of 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 Petro-chemical Technology were started from 16th November, 1970 under the INDO-USSR Credit Agreement of December, 1966. During the year under report, the starting of Continuing/Adult Education Department has been sanctioned 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-two Annual Reports that have been published so far. This twenty-third Annual Report covers the period from 1st April, 1971 to 31st March, 1972 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 16,590 (12,311 men students and 4,279 women students) and that of non-University students was 1496 (946 men students and 550 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-first Annual Convocation was held in a Shamiana in the University Gardens on 4th December, 1971. Shri Fatehsinhrao P. Gaekwad, Chancellor presided over the Convocation. Shri G. S. Pathak, Vice-President, Government of India who was to be the Chief Guest at the Convocation could not come to deliver the address, due to declaration of War by Pakistan. 2441 degrees and diplomas were conferred.

(ii) The Twelfth Supplementary Convocation was held in the Auditorium of the General Education Building on 26th March, 1972. The Vice-Chancellor presided over the Convocation. 376 degrees and diplomas were conferred.

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

(2) New Developments:

(i) The University decided to start a Department of Continuing/Adult Education in the University.

- (ii) By way of adjustment and savings in the University Grants Commission's share allocation to this University during the Fourth Five Year Plan, two new proposals viz. construction of a new building for Museology Department at an estimated cost of Rs. 2,00,000 and construction of a new building for Library for undergraduate students at an estimated cost of Rs. 14,07,700 were approved by the University Grants Commission. Sir Sayajirao Diamond Jubilee Trust agreed to give a grant of Rs. 6,00,000 towards the Library building for the undergraduate students.
- (iii) Under the programme of Special Assistance to Selected Departments, the University Grants Commission approved a non-recurring grant of Rs. 6,00,000 (Building, Equipment and Books) and a recurring grant for teaching, research and technical staff and maintenance for the Biochemistry Department on 100% basis for a period of 5 years i.e. from 1st April, 1972 to 31st March, 1977.
- (iv) The University Grants Commission approved the University's proposal for starting a Department of Continuing/Adult Education at an estimated cost of Rs. 3,92,150 and agreed to provide (75%) grant of Rs. 2,94,112 for the period ending 31st March, 1974.
- (v) On the recommendation of an Expert Visiting Committee, the University Grants Commission approved the continuation of the scheme of Publication of a Critical Edition of Valmiki Ramayana and agreed to give 66 $\frac{2}{3}$ % grant on the estimated expenditure of Rs. 4,08,000/- during the period from 1st April, 1971 to 31st March, 1975.

(3) Buildings:

The following buildings were completed during the year:

- (i) Building for Post-graduate Courses in Mechanical Engineering,
- (ii) Building for Post-graduate Course in Textile Engineering,
- (iii) Building for the Faculty of Law,
- (iv) Construction of additional class rooms, staff rooms in the building of the Faculty of Commerce.

The following works were under construction:

- (i) Hostel to accommodate 178 students under Architecture and Post-B.Sc. Electronics Schemes,
- (ii) Hostel to accommodate 140 students under the scheme of Introduction of Post-graduate courses in Civil, Mechanical and Electrical Engineering,
- (iii) Construction of a new building for the Department of Sociology,
- (iv) Building for Non-Vegetarian Mess,
- (v) Building for Shri M. K. Amin Arts and Science College and College of Commerce at Padra.

- (vi) Extension to the University Polytechnic building,
- (vii) New block for the Faculty of Arts,
- (viii) New building under the scheme of introduction of 5 year integrated degree courses in Civil, Mechanical and Electrical Engineering and furnace and foundry laboratory under the scheme of 5 year Degree Course in Metallurgical Engineering at the Faculty of Technology and Engineering.

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

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

- (i) Seminar on the "Treatment and disposal of Dairy Wastes".
- (ii) Seminar on "Sources of Indian History and their Interpretation for teaching history from sources material".
- (iii) Summer Institute in Physics.
- (iv) Summer Institute in the Field of Research Methodology in Education.
- (v) All India Inter-University Cricket Coaching Camp.

(5) Foreign Visitors:

Name	Date of Visit
(i) Dr. (Miss) Schnir M, Expert in Fine Arts, Paris.	14-6-1971
(ii) Dr. Robert A. Beaver, Member of the American Academy of Political and Social Science, U.S.A.	3-8-1971
(iii) Mr. Arthur Goodwin, Head of the Department and Vice-Principal of Exeter College of Arts, England.	23-9-1971
(iv) Professor Robert I Crane, Ford-Maewell, Professor of South Asian Affairs, Director, South Asia Program, Syracuse University.	27-9-1971
(v) Dr. Deltas K. Beal, Acting President, State University College, Fredonia, N.Y.	27-9-1971

<i>Name</i>	<i>Date of Visit</i>
(vi) Dr. Bernard L. Hyink, President, Sacramento State College, Sacramento Cal.	27-9-1971
(vii) Dr. Lewis A. Jackson, President, Central State University, Wilberforce, Ohio.	27-9-1971
(viii) Mr. B. N. Pandey, Department of History, School of Oriental and African Studies, University of London.	27-9-1971
(ix) Professor (Miss) C. Vaudeville, French Specialist on Indian Civilization and Literature, Sorbonne University, Paris.	5-10-1971
(x) Dr. S. R. Spencer, President, Davidson College, Davidson, North Carolina, U.S.A.	12-11-1971 13-11-1971
(xi) Dr. Fredrick H. Gaige, Director, South Asian Studies Programme, Davidson College, Davidson, North Carolina, U.S.A.	12-11-1971 13-11-1971
(xii) Dr. Katherine A. Kendal, Secretary-General, International Association of Schools of Social Work, New York.	14-11-1971
(xiii) Dr. D.G.A. Bautaev, Director and Chief of Mission, UNESCO.	19-1-1972
(xiv) Mr. P. I. Wakely, Senior Lecturer, University College, London and Senior Tutor, Department of Development and Tropical Studies.	15-3-1972
(xv) Dr. Josef Jaros, Department of Geology, Charles University, Prague (Czechoslovakia).	17-2-1972

(6) A University Grants Commission Visiting Committee consisting of expert members—Dr. K. L. Srimali, Dr. N. V. Tirth, Dr. S. C. Dube and Dr. S. C. Goel—visited the University and scrutinized the University's proposal for Development of Teacher Education at its Faculty of Education and Psychology.

(7) A U.G.C. Visiting Committee consisting of expert members—Dr. S. M. Katre, Dr. G. T. Deshpande, Dr. A. P. Mishra and Dr. S. C. Goel—visited the University on 4th June, 1971 and scrutinized the University's proposal for continuation of grant for the Scheme of Publication of a Critical Edition of Valmiki Ramayana during the years 1971 to 1975.

(8) A Visiting Committee appointed by the Western Regional Committee of the All India Council for Technical Education, Ministry of Education and Social Welfare visited the University on 6th January, 1972 and scrutinized the University's recurring and non-recurring requirements for starting a degree course in Pharmacy at the Faculty of Technology and Engineering.

(9) Bangla Desh Relief Fund: The Syndicate at their meeting held on 24th April, 1971 resolved that a Voluntary Contribution of Rs. 2 per student be accepted during the first term of the year 1971-72 for the Bangla Desh Relief Fund. In response to the Vice-Chancellor's appeal, the University collected a total amount of Rs. 14,417-42 from students, teachers and administrative staff and handed over the amounts by a cheque to the Secretary, Bangala Desh Sahaya Samiti, Baroda.

(10) National Defence Fund: On 3rd December, 1971 our country came once again in clash with Pakistan. To the Vice-Chancellor's appeal on 24th December 1971, the students, teachers and administrative staff of the University responded with a collection of Rs. 66,663-81 for the National Defence Fund.

4. Teaching Staff

The total number of teaching staff (excluding 115 in Medical College) consisted of 54 Professors, 109 Readers, 322 Lecturers, 264 Assistant Lecturers and Instructors, 50 Honorary, Part-time and others, the total being 799 (Appendix IV).

5. Facilities to the Teaching Staff for further studies

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

<i>Sr. No.</i>	<i>Name of the Teacher</i>	<i>Qualifications and Experience acquired</i>
(1)	Shri D. S. Pathak, Lecturer in Economics	M.A. Economics, Southern Methodist University U.S.A.
(2)	Shri Vasdev Singh, Senior Instructor in Chemical Engineering	M. Tech. degree from Indian Institute of Technology, Kharagpur.

Sr. No.	Name of the Teacher	Qualification and Experience acquired
(3)	Dr. (Kum.) Nalini Ogale, Lecturer in Home-Management	Degree of Doctor of Education in Family Economics and Management with a minor in Education (from USA).
(4)	Smt. Z. N. Chokshi, Lecturer in Foods and Nutrition	Finished Course Work in U.S.A. (returned due to sickness).

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

Sr. No.	Name of the Teacher	Purpose
(1)	Shri Birje Patil, Reader in English	To avail of a senior Fulbright research scholarship at Yale University, U.S.A.,
(2)	Dr. M. J. Mehta, Assistant Lecturer in Chemistry	To avail of Post-doctoral Fellowship at Stevens Technological Institute, Hobokur, U.S.A.
(3)	Smt. Aruna Dave, Assistant Lecturer in Child Development	For higher studies on 'Pre-School Education' in USA.
(4)	Shri J. J. Prajapati, Senior Instructor in Civil Engineering	For M. Tech. study at the Indian Institute of Technology, Madras.
(5)	Shri N. R. Saraf, Senior Instructor in Electrical Engineering	For M.E. study at the Faculty of Technology and Engineering, Baroda.
(6)	Professor V. Seshadri, Professor of Metallurgical Engineering	To avail of the Fellowship awarded to him by the Alexander Von-Humboldt Foundation in West Germany.
(7)	Professor S. B. Pandya, Professor of Chemical Engineering	To join a delegation of the Ministry of Education, Government of India to U.S.S.R. for study of Model Diploma Courses.
(8)	Professor C. V. Ramakrishnan, Professor of Bio-Chemistry	To avail of Visiting Professorship at the Illinois University, U.S.A.
(9)	Kum. P. M. Patel, Lecturer in Dance	To visit institutions teaching Music, Dance and Dramatics in Europe and U.S.A.
(10)	Shri K. A. Tanjorkar, Lecturer in Dance	To participate in Cultural Programmes in Europe.

Sr. No.	Name of the Teacher	Purpose
(11)	Shri K. Ethirajulu, Lecturer in Chemical Engineering.	To acquire specialised training in Technology of Oil and Gas in U.S.S.R.
(12)	Shri N. M. Surana, Senior Instructor in Chemical Engineering	To acquire specialized training in Technology of Fertilizers and Acids in USSR.
(13)	Shri S. M. Moghe, Lecturer in Electrical Engineering	To acquire specialized training in Process Control and Automations in USSR.

6. University Examination Results

Twenty-eight candidates were declared qualified for the award of Ph.D. degree of this University during the year 1971-72. A statement showing the names, subjects and titles of the theses is given in Appendix V.

Statements showing the University examinations results of (i) March-April-May-June, 1971 and (ii) October-November, 1971 are given in Appendices VI and VII.

7. Endowments and Donations

The Syndicate accepted the following donations:

(i) Late Smt. Bachibai Research Stipend Fund:

Donation of Rs. 5,000/- from Late Smt. Bachibai, daughter of Shri Narsidas Gordhandas for giving a stipend of Rs. 25/- p.m. to a deserving candidate undertaking research for the higher post-graduate research degree of Vachaspati in the Baroda Sanskrit Mahavidyalaya.

(ii) Dr. C. S. Patel Endowment Fund:

Donation of Rs. 36,000/- from the Dean, Faculty of Science as a collection from the friends and admirers of Dr. C. S. Patel for the institution of lectures and for awarding a prize of Rs. 400/- in cash in the name of Dr. C. S. Patel, to a student passing M.Sc. Examination held by the M. S. University of Baroda in March/April in First Class standing First in the Faculty of Science at the first attempt.

(iii) Professor Y. M. Bhende Gold Medal Fund:

Donation of Rs. 5,625-41 from Dr. B. Sayed, Consultant Pathologist, Public Health Laboratory, Lusaka (Zambia) for awarding a Gold Medal at the Annual Day Function of the Medical College, to a student of the regular batch passing the whole Second M.B.B.S. Examination of the M. S. University of Baroda held in April at the first attempt obtaining the highest number of

marks in the subject of Pathology, provided however, the student should have passed his Ist M.B.B.S. Examination of the M. S. University of Baroda at the first attempt.

(iv) *Justice Chaturbhai N. Patel Memorial Gold Medal Fund:*

Donation of Rs. 5,000/- from Shri Kantilal C. Patel, Baroda for awarding a Gold Medal at the Annual Convocation to a candidate passing the LL.M. Examination held by the M. S. University of Baroda in June with atleast Second Class at the first attempt, obtaining the highest number of marks thereat.

(v) *Sir Mehubub I. Kadri Memorial Gold Medal in Law Fund:*

Donation of Rs. 5,600/- from Dr. B. Sayed, Consultant Pathologist, Public Health Laboratory, Lusaka (Zambia) for awarding a Gold Medal at the Annual Convocation to a candidate passing the Second LL.B. (General) Examination held by the M. S. University of Baroda in March/April with atleast Second Class, at the first attempt, obtaining the highest number of marks thereat, provided further that the student should have passed the First LL.B. Examination of this University atleast in Second Class.

(vi) *The 12th Session Akhil Bharatiya Darshana Parishad Prize:*

Donation of Rs. 2,456-88 from the Local Secretary, Akhil Bhartiya Darshana Parishad, Faculty of Arts, Baroda for awarding every year a prize in cash, to a student passing the M.A. Examination with Philosophy held by the M. S. University of Baroda in March/April with atleast Second Class at the first attempt securing the highest number of marks thereat.

(vii) *Shri Lalitaprasad Shreeprasad Dave Memorial Prize in Law Fund:*

Donation of Rs. 1,500/- from Smt. Vikaswara H. Dholakia, Baroda for awarding a prize in cash to the student passing the Second LL.B. (General) Examination of the M. S. University of Baroda held in March/April with atleast Second Class at first attempt, obtaining the highest number of marks thereat.

(viii) *Shri Jayanti Dalal Memorial Gold Medal Fund:*

Donation of Rs. 6,001/- from the Principal, College of Indian Music, Dance and Dramatics, Baroda for the institution of a Gold Medal in memory of late Shri Jayanti Dalal, to be awarded at the Annual Convocation to a student who passes the B.Mus. (Dramatics) Examination held by the M. S. University of Baroda in March/April, in first Class, at the first attempt, obtaining the highest number of marks thereat.

(ix) *Bank of Baroda Trophy Prize Fund:*

Donation of Rs. 7,500/- from Bank of Baroda, Baroda for the institution of a Silver Trophy and Debate prizes. The debating competition will be held under the auspices of the Faculty of Commerce, Baroda every year. Each participating Faculty or College shall send one team only consisting of two

student debators to the competition. The minimum number of participating team to this competition shall be three. The debating competition will be conducted in English language. The topic of the competition shall relate to Banking and Savings. There shall be three prizes of the value of Rs. 125, Rs. 75 and Rs. 50 respectively to be awarded in order of merit on the recommendations of the panel of judges.

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 1971-72 are given in Appendix VIII.

(2) *Revenue Accounts:*

The receipts and disbursements during the financial year 1971-72 are Rs. 1,45,23,160-20 and Rs. 1,74,03,057-85 respectively leaving a deficit of Rs. 28,79,897-65. Details of the Accounts are given in Appendix IX.

(3) *Grants:*

The University received grants totalling Rs. 42,48,189-35 on development schemes from the University Grants Commission and Government of Gujarat and for various research schemes, studies, projects, etc. from the Central Ministeries, 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. 22,32,510-50 was spent during the year on capital works.

(2) *Ordinary and Special Repairs:*

The total expenditure on repair works during the year was Rs. 2,30,219-75 and Rs. 2,36,494-48 on Ordinary and Special Repairs respectively. Also an expenditure amounting to Rs. 8,164-65 was incurred on immediate petty repairs to buildings.

CHAPTER II—OFFICERS OF THE UNIVERSITY

1. Officers

(1) *The Chancellor*

Shri Fatehsinrao Pratapsinrao Gaekwad is the Chancellor of this University under Statute 110 A.

(2) *The Vice-Chancellor*

Shri N. K. Vakil, B.A., LL.B. (Bom.), Retired Judge, Gujarat High Court continued to work as Honorary Vice-Chancellor under Statute 115 during the year.

- (i) He addressed (a) the Broach Junior Chamber on "National Integration" on 3rd April, 1971, (b) the Baroda Junior Chamber on 18th August, 1971 and (c) the Surat Junior Chamber as the Chief Guest at its Charter Nite Celebrations on "National Integration" on 23rd February, 1972 at Surat.
- (ii) He presided over the German Language Society's Annual Prize Distribution function at the Railway Staff College on 4th April, 1971.
- (iii) He inaugurated the following:
- (a) All India National Integration Camp for Teachers organised by the National Council of Educational Research and Training and Faculty of Education and Psychology of this University at Prof. T. K. Gajjar Hall on 30th May, 1971;
- (b) The 12th Conference of Indian Society of Gastroenterology at the Medical College on 4th September, 1971.
- (iv) He attended the following meetings:
- Meetings of the Vice-Chancellors of the Gujarat State Universities convened by the Governor at Raj Bhavan, Ahmedabad.
- (a) Meeting held on 11th April, 1971; Meeting held on 1st September, 1971 to consider the Dongerkery Commission Report as also the First General Meeting of the Reconstituted Gujarat State Regional Committee; Meeting held on 1st December, 1971 to discuss the recommendations of the Dongerkery Commission Report; and Meeting of the State Citizens' Council held on 7th December, 1971.
- (b) Fifty-Ninth and Sixtieth Meetings of the Zonal Advisory Board, Western Zone, Life Insurance Corporation of India,

held at Panjim (Goa) on 14th May, 1971 and at Bombay on 19th July, 1971 respectively.

- (c) First and Second Meetings of Shri Aurobindo Birth Centenary Celebrations Committee held at the Gujarat University, Ahmedabad, on 30th June, and 3rd September, 1971 respectively.
- (d) Meetings of the Working Group on Education and Manpower Planning held at the Gujarat University, Ahmedabad, on 26th July, 2nd September, 5th October and 11th November, 1971.
- (e) Meeting of the Executive Committee of the Indian University Association for Continuing Education at the Inter-University Board Office at New Delhi on 6th August, 1971.
- (f) Special Meeting of the Inter-University Board of India and Ceylon to consider the Report on 'Examination Reforms' at New Delhi on 8th, 9th and 10th October, 1971.

(3) *The Pro-Vice-Chancellor*

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

- (a) Council Meeting, The Institution of Engineers (India), at Ranchi on 16th, 17th and 18th May, at Calcutta on 13th and 14th August, at Bangalore on 20th and 30th November, 1971.
- (b) Meeting of Executive Council, Indian Society for Technical Education at New Delhi on 5th and 6th June, 1971.
- (c) Board of Post-graduate Engineering Studies and Research, Ministry of Education, New Delhi on 5th July, 1971 and on 16th February, 1972.
- (d) Meeting of the Board of Governors of S. V. Regional Engineering College, Surat on 19th November, 1971 and that of Indian Institute of Technology at Bombay on 21st January, 1972.
- (e) Meeting of the Committee of Eminent Industrialists and Experts to go into the question of establishment of National Institute of Science and Technology held at Ahmedabad on 22nd November, 1971, 25th January, 28th February and 31st March, 1972.

(4) *Deans*

The following Officers worked as Deans of the various Faculties:

<i>Faculty</i>	<i>Deans</i>
(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
(vi) Technology and Engineering	Professor L. B. Shah (Upto 4-11-1971) Professor S. M. Sen (from 5-11-1971)
(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 was appointed Registrar on probation for one year from 1-2-1972 and continued to work as Registrar.

(6) *Librarian*

Dr. L. M. Padhya continued to work as Deputy Librarian.

(7) *Other Officers*

<i>Name</i>	<i>Designation</i>
(i) Dr. O. D. Gulati (Upto 30-6-1971) Dr. V. P. Bhatt (from 1-7-1971)	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	Principal, Polytechnic
(vi) Shri I. A. Dave	Principal, M. K. Amin Arts and Science College and College of Commerce, Padra
(vii) Dr. B. G. Desai	Head, Preparatory Unit—Arts and Commerce
(viii) Shri C. J. Shah	Head, Preparatory Unit—Science
(ix) Shri M. M. Chokshi (On leave till 31-10-1972) Shri M. M. Amin, Offg. Principal (from 9-11-1971)	Principal, University Experimental School

CHAPTER III—THE SYNDICATE AND THE SENATE

1. *The Syndicate*

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

1. Shri N. K. Vakil, Vice-Chancellor
2. Professor P. J. Madan, Pro-Vice-Chancellor
3. Director of Education or his nominee
- ‡ Shri N. B. Amin
4. Professor D. M. Desai
- *5. Dr. S. P. Desai
- § Shri P. C. Hathi
- ‡ Shri C. C. Mehta
- *6. Shri F. H. Palejwala
7. Professor N. S. Pandya
8. Shri C. M. Parikh
- ‡ Shri J. S. Parikh
9. Dr. C. B. Patel
- *10. Shri D. K. Patel
11. Dr. T. V. Patel
- *12. Shri U. M. Patel
13. Professor B. J. Sandesara
- †14. Professor S. M. Sen
- § Professor L. B. Shah
- ‡ Dr. (Shrimati) Leela C. Shah
- *15. Dr. S. H. Shah

During the year the Syndicate held 10 meetings in which they considered and passed resolutions on 551 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 15-9-1971.
§ Ceased to be a member from 4-11-1971.
* Became a member from 1-11-1971.
† Became a member from 19-12-1971.

Name	No. of meetings held	Class of meetings		Present	Absent
		O. Ordinary	S. Special		
1	2	3	4	5	
Shri N. K. Vakil, Vice-Chancellor	10	O. 6 S. 4	O. 6 S. 4	—	—
Professor P. J. Madan, Pro-Vice-Chancellor	10	O. 6 S. 4	O. 4 S. 4	O. 2	—
Director of Education or his nominee	10	O. 6 S. 4	O. 5 S. 4	O. 1	—
‡Shri N. B. Amin	4	O. 2 S. 2	O. 1 S. 2	O. 1	—
Professor D. M. Desai	10	O. 6 S. 4	O. 6 S. 4	—	—
*Dr. S. P. Desai	5	O. 4 S. 1	O. 4 S. 1	—	—
‡Shri P. C. Hathi	4	O. 2 S. 2	O. 2 S. 1	—	S. 1
‡Shri C. C. Mehta	4	O. 2 S. 2	O. 2 S. 2	—	—
*Shri F. H. Palejwala	5	O. 4 S. 1	O. 4 S. 1	—	—
Professor N. S. Pandya	10	O. 6 S. 4	O. 6 S. 4	—	—
Shri C. M. Parikh	10	O. 6 S. 4	O. 5 S. 3	O. 1	S. 1
‡Shri J. S. Parikh	4	O. 2 S. 2	O. 2 S. 2	—	—
Dr. C. B. Patel	10	O. 6 S. 4	O. 6 S. 3	—	S. 1
*Shri D. K. Patel	5	O. 4 S. 1	O. 3 S. 1	O. 1	—
Dr. T. V. Patel	10	O. 6 S. 4	O. 4 S. 4	O. 2	—
*Shri U. M. Patel	5	O. 4 S. 1	O. 4 S. 1	—	—

	1	2	3	4	5
Professor B. J. Sandesara		10	O. 6 S. 4	O. 6 S. 4	—
†Professor S. M. Sen		3	O. 3	O. 3	—
§Professor L. B. Shah		5	O. 2 S. 3	O. 2 S. 3	—
‡Dr. (Shrimati) Leela C. Shah		4	O. 2 S. 2	O. 2 S. 1	— S. 1
*Dr. S. H. Shah		5	O. 4 S. 1	O. 2 S. 1	O. 2 —

‡ Ceased to be a member from 15-9-1971.

§ Ceased to be a member from 4-11-1971.

* Became a member from 1-11-1971.

† Became a member from 19-12-1971.

2. The Senate

The Senate consisted of 95 members. The term of the office of the Ordinary members ended on 14th September, 1971 and elections were held in August/September, 1971.

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

- | | |
|-------------------------------------|--------------------------------|
| (1) Shri B. K. Zutshi | (18) Dr. S. H. Jhaveri |
| (2) Prof. L. B. Shah | (19) Shri R. K. Patel. |
| (3) Dr. O. D. Gulati | (20) Smt. Amar B. Patel |
| (4) Dr. T. B. Patel | (21) Shri H. P. Mehta |
| (5) Shri V. L. Devkar | (22) Shri M.H.C. Dayamakumar |
| (6) Shri V. R.
Mathrubhuteswaran | (23) Shri R. R. Parikh |
| (7) Dr. M. A. Patel | (24) Shri M. L. Bhatt |
| (8) Shri S. R. Patel | (25) Shri S. S. Shukla |
| (9) Shri H. R. Patel | (26) Shri N. C. Purohit |
| (10) Shri U. R. Gore | (27) Shri B. B. Yodh (expired) |
| (11) Shri S. K. Majmudar | (28) Shri D. M. Parikh |
| (12) Dr. U. P. Shah | (29) Dr. C. G. Saraiya |
| (13) Smt. Anjali S. Merh | (30) Professor C. C. Mehta |
| (14) Shri S. Y. Mishra | (31) Shri R. P. Desai |
| (15) Shri M. A. Pandya | (32) Shri C. C. Mehta |
| (16) Shri I. R. Haribhakti | (33) Shri B. B. Joshi |
| (17) Shri D. J. Amin | (34) Shri J. S. Parikh |
| | (35) Shri N. B. Amin |
| | (36) Shri P. C. Hathi |

- | | |
|------------------------|-------------------------------|
| (37) Shri J. C. Shroff | (41) Shri Rajni M. Patel |
| (38) Dr. N. R. Desai | (42) Dr. S. G. Oza |
| (39) Dr. C. C. Shah | (43) Shri Jashwantlal S. Shah |
| (40) Shri R. S. Parikh | |

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

- | | |
|-------------------------------|----------------------------------------|
| (1) Dr. G. M. Patel | (24) Shri Ashok Krishnadas |
| (2) Dr. Jivraj N. Mehta | (25) Kum. M. S. Daruwala |
| (3) Dr. V. P. Bhatt | (26) Shri T. C. Patel |
| (4) Dr. M. H. Thakore | (27) Shri S. B. Kulkarni |
| (5) Shri B. L. Mankad | (28) Professor V. N. Kothari |
| (6) Dr. R. M. Naik | (29) Professor M. V. Mathur |
| (7) Dr. H. P. Chokshi | (30) Shri N. M. Miabhoy |
| (8) Dr. C. P. Munshi | (31) Shri Jasubhai M. Shah |
| (9) Dr. R. C. Desai | (32) Dr. D. T. Lakdawala |
| (10) Shri N. J. Mehta | (33) Dr. V. G. Mavlinkar |
| (11) Prof. (Smt.) Amita Verma | (34) Shri Arvind Navinchandra Mafatlal |
| (12) Shri S. R. Yardi | (35) Shri N. L. Vahia |
| (13) Shri J. P. Thaker | (36) Dr. S. P. Desai |
| (14) Shri M. J. Bhatt | (37) Dr. P. T. Acharya |
| (15) Shri M. C. Jani | (38) Shri J. G. Bodhe |
| (16) Shri J. R. Shah | (39) Dr. P. K. Kelkar |
| (17) Shri T. Gangopadhyay | (40) Professor R. H. Dave |
| (18) Dr. S. H. Shah | (41) Dr. L. S. Chandrakant |
| (19) Shri J. S. Patel | (42) Shri K. A. Dave |
| (20) Shri P. B. Jhaveri | (43) Smt. Saraladevi Sarabhai |
| (21) Shri J. P. Shah | (44) Shri K. A. Amin |
| (22) Dr. J. V. Mody | |
| (23) Shri Charan Singh Chawla | |

The Senate met twice during the year—on 7th November, 1971 and 26th March, 1972. 73 members attended the meeting of 7th November, 1971 and 58 that of 26th March, 1972.

First meeting (7th November, 1971):

The following business was transacted:

The elections of five Fellows on the Syndicate were held. 88 Fellows were assigned to the Faculties. Supplementary grants amounting to Rs. 1,18,529 in the Revised Budget were sanctioned. The proposal for amendment of Statute 127 was considered and passed. Ordinances and Rules mentioned in Pamphlet No. 7 of Handbook Part II-1967 and Pamphlet No. 3 of Handbook Part IV regarding Text-Books for the examinations in Arts, Science, Technology and Engineering, Fine Arts and Home Science were passed. The Twenty-second

Annual Report and Twenty-Second Annual Accounts of the University for the year 1970-71 were passed and the excess of expenditure over the revised estimates for the year 1970-71 was also approved. The Report of the Board of Accounts for the year 1970-71 was considered and passed. The proposal for institution of teaching posts in the Faculty of Technology and Engineering, Faculty of Fine Arts and the Department of Continuing/Adult Education were passed.

Second meeting (26th March, 1972):

The following business was transacted:

The elections of five teachers to the Council of Post-graduate Studies and Research and of one member each on the Board of Visitors for the Faculty of Technology and Engineering and of the College of Indian Music, Dance and Dramatics were held. Four Fellows were assigned to the Faculties. Replies to questions were given. The Annual Financial Statement comprising the revised estimates for the year 1971-72 and the estimates for the year 1972-73 were considered and passed. The proposal for amendment of Statute 76 was considered and passed. Ordinances and Rules mentioned in Pamphlet No. 8 of Handbook Part II-1967 were passed. The proposal for institution of teaching posts in the Faculties of Arts, Science, Commerce, Education and Psychology, Technology and Engineering and Home Science, College of Indian Music, Dance and Dramatics, Polytechnic and M. K. Amin Arts and Science College and College of Commerce, Padra was considered and 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 twice during the year on 10th September, 1971 and on 10th February, 1972 and considered in all 79 items referred to it. 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 1972-73.

(2) Panels of names of referees to examine the theses of 56 students for the award of Ph.D. degree in different subjects.

(3) Recognition of 42 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) 40th and 41st half-yearly Progress Reports of the Critical Editions of Old Gujarati Texts (Prachin Gurjar Granthmala).

(5) Shri B. N. Parmar was recommended for the award of Ph.D. (Archaeology) degree posthumously by waiving the condition of taking the Viva-Voce test as required under the existing rules.

(6) Approved the recommendations of the Sub-Committee appointed to consider the question of maximum utilization of research facilities and Research Funds available with the University.

(7) Approved the recommendations made by the Sub-Committee in the matter of recognition of persons as University teachers for guiding Ph.D. students in respective subjects for the award of the Ph.D. degree in all Faculties.

(8) Recommended that no teacher should be allowed to take more than 6 students for Ph.D. every year and the total number of students under a teacher shall not exceed 12 at a time.

(9) Approved the Ordinances for Ph.D. degree in Social Work over and above the existing Ph.D. Ordinances.

(10) Recommended for sanction of an adhoc grant of Rs. 6,000 to TAIRO for the year 1972-73, for research work.

2. Faculties:

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

Sr. No.	Name of the Faculty	Date of the meeting
(1)	Arts	26-6 -1971 5- 7-1971 19-12-1971
(2)	Science	19-12-1971
(3)	Commerce	18-12-1971
(4)	Education and Psychology	18-12-1971
(5)	Medicine	7- 6-1971 19-12-1971
(6)	Technology and Engineering	13- 9-1971 18-12-1971
(7)	Fine Arts	19-12-1971
(8)	Social Work	18-12-1971
(9)	Law	19-12-1971

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

Important items of business on which the Faculties took decision or made recommendations are mentioned in the following paragraphs:

(1) Faculty of Arts:

- (i) Recommended that Islamic Culture be introduced at B.A. and M.A. courses as a subordinate subject.
- (ii) Recommended that German be allowed to be offered as a minor subject alongwith Sociology as a major at S.Y.B.A. class.
- (iii) Recommended that German be allowed to be offered as a minor subject alongwith History, Archaeology and Ancient Indian Culture as a major at S.Y.B.A. class.
- (iv) Recommended that Paper I Indian Philosophy and Paper II Social and Political Philosophy be introduced as two papers in Philosophy as subordinate to the six paper Principal courses in other subjects at M.A.
- (v) Recommended the following provisions for approval :
 - (a) those students who have failed under M.A. Old Course even after availing of the benefit of two chances as per existing rules be considered eligible for appearing at the M.A. (Old) courses upto March, 1976 examination without keeping terms. Such of the students who fail to pass M.A. (Old) course examination even after availing of the additional trials available upto March, 1976 examinations, will be required to join M.A. Part I new course afresh ;
 - (b) those students who have not completed the terms under M.A. Old Course and left studies half way and now desire to study

for M.A. Course be required to join M.A. Part I of new course as fresh students.

- (vi) Recommended that existing O.A. 20 and O.A. 21 be amended by adding the following provision in the beginning/end respectively :

At the end of the second year a candidate may take the examination in compulsory English, the minor subject, and two papers of the B.A. O.A. 20 major subject. Candidates who obtain a minimum of 40% in compulsory English and a minimum of 40% in the aggregate in the minor subject and two papers of the B.A. major subjects will be considered to have passed in these subjects.

Candidates who pass in compulsory English or minor subject or two papers of the B.A. major subjects will not be allowed to appear thereat again.

Provided however that candidates who appear at the S.Y.B.A. (Major) and T.Y.B.A. (Major) examinations simultaneously and overall O.A. 21 declared failed but obtain 40% in aggregate total of 4 papers of T.Y.B.A. examination and fail to obtain 40% in aggregate of two major papers of S.Y.B.A. examination, shall be required to reappear in two major papers of S.Y.B.A. examination only. Such candidates on clearing the S.Y.B.A. (Major) will not be eligible for a class.

(2) *Faculty of Science :*

- (i) Recommended that the existing syllabi for S.Y.B.Sc., T.Y. B.Sc. and M.Sc. in Botany be modified and approved as proposed.
- (ii) Recommended that the existing syllabus of Paper I of the M.Sc. Physics (Final) be revised and approved as proposed.
- (iii) Recommended that the proposed syllabus for M.Sc. (Final) Statistics be approved.
- (iv) Recommended that the existing syllabi of the first year for the principal and subsidiary Chemistry Course for the B.Sc. degree be revised and approved as proposed.
- (v) Recommended that the existing syllabi in Chemistry for the Pre-medical course be revised and approved as discussed.
- (vi) Approved the proposed syllabi in Mathematics for Paper I, Paper II and Paper IV of the M.Sc. previous examination.
- (vii) Recommended that the introduction of the Semester System as proposed in the report of the sub-committee be approved in principle.

(3) *Faculty of Commerce :*

- (i) Recommended that the existing syllabi for the F.Y.B.Com., S.Y. B.Com. and T.Y.B.Com. Courses in Business Economics be modified and be approved as proposed at the meeting.

- (ii) Recommended that the proposed draft of the revised Ordinances O.Com. 33, 34, 35, 36, 37, 38 relating to M. Com. Part I and M.Com. Part II Courses be approved.

(4) *Faculty of Education and Psychology :*

- (i) Modified and approved the proposed modifications for the F.Y.B.A., B.A. and M.A. Courses in Psychology.
- (ii) Modified and approved the proposed amendments to the existing Ordinances for M.Ed., B.Ed., Dip.Ed. & Ec.Ed. Courses.
- (iii) Recommended that the recommendations contained in the report of the Committee on the Semester System and Internal assessment be approved and the same should be discussed by the staff of the Departments of Education and Educational Administration of the Faculty for further necessary action.
- (iv) Recommended that the total load of credits for M.Ed. Courses be 36 and distributed as proposed by the Faculty.

(5) *Faculty of Medicine :*

- (i) Recommended that provision of compulsory Rotating Housemanship of twelve months in respect of the condensed M.B.B.S. Course already approved by the Faculty and Syndicate be adhered to.
- (ii) Recommended that non-medical persons be not permitted to qualify for the degree of M.Sc. (Pathology) under the Faculty of Medicine.
- (iii) Recommended that the government be requested to appoint Junior Lecturers in place of Registrars.
- (iv) Recommended that students who have passed the M.B.B.S. examination of this University be permitted to do their compulsory Rotating Housemanship in Hospitals/Institutions recognised by the Medical Council of India provided the Heads of both the Institutions have no objection.
- (v) Recommended that the students who have secured 50% marks at the Preparatory Science Examination only be allowed to appear at the Competitive Selection Test to be held by this University for purpose of admission to the Pre-Medical Course.
- (vi) Approved the detailed syllabi, scheme of examination etc. for M.S.—Ophthalmology Degree Course.
- (vii) Recommended that the following clause be inserted in the existing O.M. 36 after the words 'Examination of this University':
"The voluntary work done by a student in any of the Relief Camps due to causes beyond Human Control viz. Flood Relief, Refugee Camps etc. should be counted as equivalent to the Compulsory Rotating Housemanship (internship)."

- (viii) Recommended that the existing Rule No. 2 of the Rules regarding Post-graduate Studies in the Faculty of Medicine be amended so as to read as under :

Rule No. 2 : A candidate may be registered simultaneously for a Post-graduate degree and diploma in same subject. The period of registration for a Post-graduate degree or diploma ends with his completion of the required terms.

Note : Students intending to register subsequently for another Post-graduate degree/diploma in an allied subject, shall be permitted to do so only on completion of full period of registration i.e. three years for degree course and two years for diploma course as per Note below of the Rule No. 3 from the date of his previous registration ”.

- (ix) Approved that the requirement of maintaining journal for the M.B.B.S. Examination be done away with and case history maintained by the students be submitted in presentable form and the same be assigned $\frac{1}{3}$ of the total marks available for class record.

(6) *Faculty of Technology and Engineering :*

- (i) Recommended that the syllabi in the subject of English for the III and IV Semester Courses in Petro-Chemical Technology be the same as those prescribed for B.E. I English I and English II.
- (ii) Recommended that the M.Sc. (Applied Physics) Course to be introduced in the Faculty of Technology and Engineering be approved academically and be implemented only after it is approved by the Board of Visitors and Syndicate.
- (iii) Recommended that the O.T.E. I-2 be amended by adding the following lines at the end of the Ordinance:
- “ Such failed students at the B.E. I Examination shall not be admitted afresh ”.
- (iv) Recommended that the proposal regarding bifurcation of the existing Board of Studies in Mechanical Engineering and Metallurgy into two separate Boards of Studies viz. (i) Board of Studies in Mechanical Engineering, and (ii) Board of Studies in Metallurgy, be approved.
- (v) Recommended that the existing ordinance regarding M.E. (C.M.E., M.Text Engg.) be modified and approved as under,

“ A candidate appearing at any of M.E. (C.M.E., M.Text Engg.) Part I examinations shall not be permitted to avail of more than a total of three attempts after becoming eligible for appearing in the examination, non-appearance at any examination as and when

becoming due being counted as a trial. No candidate will be allowed to appear at M.E. (C.M.E., M.Text Engg.) Part III or Part IV examinations unless he has cleared Part I or Part II examinations respectively.”

- (vi) Recommended that a candidate holding B.E. (C.M.E.) and B.Text (Engg./Tech.) degree examination having at least three years of field/research experiences will be considered eligible for admission to M.E. and M.Text Engg. Courses provided it is passed with 50% marks in the aggregate in the respective courses.
- (vii) Recommended that the following new courses be approved academically as recommended by the Boards of Studies:
- Post-graduate Diploma Courses in (a) Foundation Engineering, (b) Structural Engineering, (c) Traffic Engineering, (d) Buildidg Science and Technology, (e) Surface and Ground Water Hydrology, (f) Coastal Engineering, (g) Mineral Processing and (h) Foundry Technology.
- (viii) Recommended that the $5\frac{1}{2}$ year Co-operative Courses in Production Engineering, Electrical Engineering, Metallurgical Engineering and Chemical Engineering be approved.
- (ix) Recommended that the scheme of working and examination, details of syllabi for the three year Post-B.Sc. Degree Course in Chemical Technology with electives be approved academically and be implemented after getting necessary sanction of the competent authority.
- (x) Recommended that the proposed scheme for Post-graduate Diploma Courses in Chemical Engineering to be set up in collaboration with Industries be approved.
- (xi) Recommended that the existing O.T.E. I.1 governing admission requirements for the Master of Engineering Degree Courses be modified by adding the following provision at the end :

“ Provided however, a candidate with 50% marks in the aggregate at the B.E. (Elect.) examination of this University or an examination recognised as equivalent thereto, having three years of teaching experience after obtaining B.E. (Elect.) degree, shall be also considered eligible for admission to the Master of Engineering (Electrical) Degrec Course.”

- (xii) Recommended that the existing Ordinance O.T.E. V-1 governing admission requirements for the Post-Diploma Diploma Course in Refrigeration and Air-Conditioning be amended by adding the following provision :

“ Provided however that a candidate who has passed Diploma (Supplementary) examination in Mechanical Engineering of this

University or an examination recognised as equivalent thereto with one seating with atleast 50% marks in the aggregate in the subjects in which he has appeared be also considered eligible for admission to the above Post-Diploma Courses."

(7) *Faculty of Fine Arts:*

- (i) Recommended that the existing 2nd year Preparatory Courses for degree and diploma of the Faculty of Fine Arts be modified and approved as proposed.
- (ii) Recommended that standard of passing (a) for the Post-Graduate Courses for the Faculty of Fine Arts be 50% in the aggregate and (b) for the Undergraduate Courses for the Faculty of Fine Arts be 50% marks in the aggregate in the major subjects and 35% marks in the aggregate in the minor subjects.
- (iii) Recommended that the existing time of 144 hours allotted for practical examination for M.A. and Post-Diploma Final examination in Graphic Arts be raised to 240 hours.
- (iv) Modified and approved the existing courses for B.Mus. and M.Mus. in Dramatics.

(8) *Faculty of Social Work:*

- (i) Recommended that the B.A. (Social Work) degree, Professional Diploma in Industrial Relations and Personnel Management Courses be instituted in the Faculty of Social Work.
- (ii) Recommended that the syllabus etc. for the M.S.W. Course prescribed for the years 1971-73 be continued for the years 1972-74.

(9) *Faculty of Law:*

- (i) Recommended the details regarding schemes of examinations, standard of passing etc. for LL.M. Part I and LL.M. Part II.
- (ii) Recommended that students who fail to pass the LL.M. examination under old courses be given three trials over and above last trial in order to pass the LL.M. examination. Such of the students who fail to pass the LL.M. examination under old course inspite of their availing of the three additional trials as stated above, they be permitted to appear at the LL.M. Part I under new courses without keeping terms afresh. Such students will be required to keep fresh terms for LL.M. Part II Course after passing the LL.M. Part I Course.
- (iii) Recommended that number of questions to be answered by LL.M. candidates will be not more than four and not less than two.

3. **Board of Studies**

There are 49 Boards of Studies in different subjects. Out of 49 Boards only 43 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	6-9-1971
(2)	Persian, Urdu and other Asian Language and Literature	6-9-1971
(3)	Hindi Language and Literature	20-9-1971
(4)	Gujarati Language and Literature	16-9-1971
(5)	Marathi Language and Literature	6-9-1971
(6)	English Language and Literature	14-9-1971
(7)	Modern and Ancient European Language and Literature	7-9-1971
(8)	Sociology	7-9-1971
(9)	History, Archaeology and Ancient Indian Culture	18-9-1971
(10)	Philosophy	11-9-1971
(11)	Linguistics	7-9-1971
(12)	Political Science	15-9-1971
(13)	Economics	15-9-1971
(14)	Physics and Meteorology	17-9-1971
(15)	Chemistry	28-9-1971
(16)	Botany	13-9-1971
(17)	Zoology	18-9-1971
(18)	Bio-Chemistry	22-9-1971
(19)	Microbiology	20-9-1971
(20)	Geology	17-9-1971
(21)	Mathematics	21-9-1971
(22)	Geography	8-11-1971
(23)	Statistics and Actuarial Science	23-9-1971
(24)	Education and Educational Administration	18-9-1971
(25)	Psychology	17-12-1971
(26)	Business Economics	24-9-1971
(27)	Accounts	27-9-1971
(28)	Commerce including Business Administration	25-9-1971
(29)	Co-operation	27-9-1971
(30)	Anatomy and Physiology	27-9-1971
(31)	Pathological Sciences, Pharmacology and Forensic Medicine	20-9-1971
(32)	Medicine, Surgery, Midwifery etc.	1-10-1971
R5		25-9-1971

<i>Sr. No.</i>	<i>Name of the Board</i>	<i>Date of the meeting</i>
(33)	Technology (Textile)	31-8-1971
(34)	Civil Engineering and Applied Mechanics	30-8-1971
(35)	Mechanical Engineering and Metallurgical Engineering	30-8-1971
(36)	Electrical Engineering and Electronics	31-8-1971
(37)	Chemical Engineering	30-8-1971
(38)	Architecture	28-8-1971
(39)	Law	11-9-1971
(40)	Painting, Sculpture, Applied Arts and Art History	24-9-1971
(41)	Music, Dance and Dramatics	29-9-1971
(42)	Museology	23-7-1971
(43)	Social Work	29-9-1971

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

CHAPTER V—BOARDS AND COMMITTEES

General

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

1. University Board of Sports :

Three meetings of the Board of Sports were held during the year. The Board appointed (i) a Committee to select teams to represent the University in Inter-University Tournaments, (ii) a Committee to organise and conduct the South Zone Inter-University and All-India Final Women Kho-Kho Tournament, (iii) a Selection Committee to work as Jury of appeal in case of disputes in Inter-Faculty Tournaments and competitions for various games and sports, (iv) a Committee to visit M. K. Amin Arts & Science College and College of Commerce, Padra for providing sports facilities to the students at Padra. The Board entrusted the work of preparing model constitution of the Sports Board of this University to the Director of Physical Education. The Board recommended (i) to provide Rs. 500/- for Cycling Club and Rs. 1500/- for Rifle Club in the Budget Estimates for the year 1972-73, (ii) to change nomenclature of ACC to Physical Education and (iii) to award " Colour " Blazers to those students who represent the University in the Inter-University Tournament either individually or in a Team, only once irrespective of the number of time he/she participates.

2. Publication Board

The Board met on 1st October, 1971. It considered and recommended for publication the works (a) " Studies in Population Education " by Prof. D. M. Desai, (b) " Muslim Education and Learning in Gujarat " by Dr. M. A. Quraishi, and (c) the Thesis entitled " Shrikanthacharitam—A study " by Dr. B. N. Bhatt. It also recommended reprinting of the book " Understanding Bharat Natyam " by Smt. Mrinalini Sarabhai.

3. Library Committee

The Committee in their report dated 18-1-1972 (arrived at by circulation) approved the issue of stack passes to the Final Year Textile Technology (DTT) and Final Year Textile Chemistry (DTC) Diploma students of the Faculty of Technology and Engineering.

4. University Building and Planning Committee

The Committee met twice during the year on 24th December, 1971 and 6th January, 1972. It considered the interim report of the sub-committee and recommended to the Syndicate that the works under water supply scheme in the Baroda College area (Rs. 2,50,000/-) be executed in the year 1972-73. It also recommended to the Syndicate to provide an amount of Rs. 3,25,000 for ordinary repairs and Rs. 3,25,000 for special repairs, i.e. about 1% of capital cost of the

University buildings, for the proper maintenance of the buildings, with the arrangement that the sub-committee of the building and planning will select the works to be executed within the allocated amounts from the requisitions received from Faculties and institutions, after ascertaining priorities for execution in the year 1972-73.

5. Standing Committee on Equivalence of Examinations

The Committee met once during the year on 6th April, 1971. It considered a number of items regarding equivalence of various examinations and special cases of eligibility of students. It also considered various recommendations of the Inter-University Board of India and Ceylon regarding equivalence of examinations.

The important recommendations made at the meeting are as under:

(1) The University should have a common policy for admission of all students at the Preparatory Arts stage as well as subsequent stages of the First Degree course in the Faculty of Arts.

Only those students who have passed their S.S.C. examination of Gujarat State with English as one of the subjects or an examination recognised as equivalent thereto with English as one of the subjects, before seeking admission to the Preparatory (i.e. Pre-University) Arts of the Universities or examining bodies concerned be considered eligible for admission to the Faculty of Arts, if they are otherwise eligible for admission.

The Preparatory (i.e. Pre-University) Arts, F.Y. B.A. and S.Y. B.A. examinations of other universities or examining bodies already recognised by this University under O.175 be deemed to have been recognised as equivalent to the corresponding examinations of this University provided the said examination/s is/are passed after passing the S.S.C. examination of the Gujarat State with English as one of the subjects or an examination recognised as equivalent thereto with English as one of the subjects, in view of the above provisions.

(2) That the Pre-University examinations in Arts and Science of Kurukshetra University be recognised as equivalent to the corresponding Preparatory examinations in Arts and Science of this University on reciprocal basis for purposes of admission to higher courses of studies in this University, provided it is passed after passing the S.S.C. examination of the Gujarat State with English as one of the subjects or an examination recognised as equivalent thereto with English as one of the subjects, as required under the existing rules.

(3) That the following examinations of Ceylon University be recognised as equivalent to the corresponding examinations of this University as stated against each for purposes of admission to higher courses of studies in this University in view of the resolution passed by the Standing Committee of the Inter-University Board of India and Ceylon in the matter.

Sr. No.	Names of the degree examinations of Ceylon University	Names of the corresponding examinations of this University
1	B.A. (General) with Sanskrit, English, History, Economics and Philosophy	B.A. with respective subjects.
2	B.A. (Special) with Sanskrit, English, History, Economics, Philosophy and Sociology	B.A. with respective subjects.
3	M.A. with Sanskrit, English, History, Economics, Philosophy and Sociology	M.A. with respective subjects.
4	B.Sc. (General)	S.Y. B.Sc. (i.e. B.Sc. Subsidiary).
5	B.Sc. (Special)	T.Y. B.Sc. (Principal)
6	M.Sc. with Geography	M.Sc. with Geography.
7	Bachelor of Commerce	B.Com.
8	Bachelor of Laws	LL.B.
9	Master of Laws	LL.M.
10	Bachelor of Science of Engineering	B.E. (Electrical).
	(a) If passed with Electrical Power, Electrical Theory and Tele-Communication and two other subjects.	
	(b) Bachelor of Science of Engineering, if passed with other subjects than the above stated subjects.	B.E. (Mechanical).

(4) The Matriculation examination conducted in Bhutan *be recognised* as equivalent to the S.S.C. examination of the Gujarat State for purposes of admission to available higher courses of studies in this University, provided it is passed with the required subjects as laid down in the relevant Ordinances of this University.

(5) The M.A. (Education) degree awarded by the University of Wisconsin, U.S.A. *be recognised* as equivalent to the M.Ed. degree examination of this University for purposes of registration for Ph.D. degree in Education and Psychology in this University.

(6) The Diploma in Social Work awarded by the Higher Professional School of Social Work, Cologne (West Germany) *be recognised* as equivalent to a Bachelor's degree of this University for purposes of admission to the Master of Social Work (M.S.W.) degree course of the Faculty of Social Work in this

University; the Ethiopian School Leaving Certificate *be recognised* as equivalent to corresponding preparatory examinations in Arts, Science and Commerce of this University for purposes of admission to available higher courses of studies in this University, provided it is passed with the required subjects as laid down in the relevant Ordinance of this University.

(7) The Law Degree awarded in Kenya *be recognised* as equivalent to LL.B. degree examination of this University for purposes of admission to available higher courses of studies in this University.

6. Academic Committee

The Committee met once during the year on 11th February, 1972. It considered a number of items. It recommended that the recommendations made at the Seminar on "Convention on University Courses and Gandhian Thought" held at Saurashtra University, Rajkot from 20th to 22nd March, 1970, be noted.

7. Preparatory Courses Committee

The General Education and the Preparatory Courses Committee met twice during the year on 9th June, 1971 and on 9th January, 1972. It recommended that existing O. 169, O. 169A and O. 169B be modified so that students who have passed S.S.C. examination of the Gujarat State with the subject of Algebra and Geometry (New) be also considered eligible for admission to the Preparatory Science, F. Y. Diploma in C.M.E., F.Y. D.T.C., Pre-D.T.T., F.Y. Extended Diploma in C.M.E. and F.Y. Diploma courses in Petro-chemicals, if they are otherwise eligible as per existing rules. It recommended admission procedure for Preparatory Courses in Arts, Science & Commerce for the year 1972-73. It recommended appointments of sub-committees for the General Education Programme and Preparatory Courses in Arts, Science and Commerce upto 30th June, 1973. It also approved the recommendations made by the various Preparatory Sub-Committees relating to syllabus, books, etc. in their respective subjects.

8 Deans' Meeting

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

- (i) The identity cards be issued to the students by 24th July, 1971 or latest by the end of July 1971.
- (ii) The ceiling of income of parents/guardians for the award of freeships to the students be Rs. 4800/- per annum and that exceptional cases can be considered at the discretion of the Deans/Heads. The freeships awarded in the first term be generally renewed in the 2nd term unless the academic record of a student during the preceding term, needed a review and that the Deans/Heads should give extension upto

one month from the opening day of the 2nd term for payment of fees of that term to such students.

- (iii) The meetings of the Council of Post-graduate Studies and Research be held at least twice every term and preferably in the months of July, September, December and March
- (iv) The Deans of Faculties and Heads of Institutions be requested to publish suitably the rules framed by them in the matter of holding supplementary tests for the students who have not been able to take them on account of genuine illness or on account of their attending official programmes outside Baroda as members of the NSS, NCC or University teams participating in various sports and games.

9. Finance and Establishment Standing Committee

Ten meetings of the Committee were held during the year. The Committee considered several items concerning request for additional establishment grants, purchase of equipments, approval of plans, estimates and tenders for construction work, contract 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 5th February, 1972. It submitted to the Syndicate, the revised estimates for the year 1971-72 and the estimates for the year 1972-73 after scrutinising various proposals received from Faculties, Institutions and Offices of the University.

10. Investment Committee

The Committee held six meetings during the year. The recommendations of the Committee concerning the investment etc. 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 the monthly reports of the 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 21st March, 1972 for scrutinising the essays on "ગુજરાતમાં ડેરી ઉદ્યોગ" for the year 1970-71. The prize was awarded to Shri Jagdish M. Mulani for writing the best essay for the year 1970-71.

It was decided to invite essays on the subject "ભારતીય રાજકારણમાં વિરોધ પક્ષ-સમસ્યાઓ અને ભાવિ" for the year 1971-72.

13. Advisory Committee for the University Health Centre

Two meetings of the Committee were held during the year.

14. Wardens' Committee

Five meetings of the Committee were held during the year.

15. Advisory Board of University Journal

The Board met on 23rd July, 1971.

16. Advisory Committee for National Service Scheme

The Committee met on 22-12-1971 and recommended to include special projects like 'Earn and Learn Scheme' etc. and Ruro Tribal Project in the NSS Programme.

17. Selection Committees

During the period from 1-4-1971 to 31-3-1972 there were 22 meetings of the Selection Committees, 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 44 meetings of the Standing Selection Committee for Junior posts and 35 meetings of the Standing Selection Committee for Class III posts and 90 and 48 candidates respectively were recommended by these Committees, for appointments to different posts in the University.

18. Committee to Select Wardens

The Committee met on 19th April, 1971 and recommended 14 teachers for appointment as wardens of Halls of residence for men students.

19. M. S. University Students' Aid Fund

The Committee met twice during the year, on 19th September, 1971 and on 17th February, 1972. The total amount of help given to the students by way of tuition fees, examination fees, books, educational materials, loans etc. during the year 1971-72 was Rs. 36,216-00.

20. Central Advisory Committee

In order to ensure prompt attention to the problems of students, Faculty/Institution Advisory Committee and Central Advisory Committee were established and constituted in July-August 1970.

The Central Advisory Committee consisted of 7 senior members of the teaching staff nominated by the Vice-Chancellor, 6 students elected from among by the Executive Committee of the Union, 2 Syndics and the President of the Union as Member-Secretary. The Central Advisory Committee met on 19th November, 1971, 19th January and 2nd March, 1972 and considered the question of obtaining Marks Certificates by the students for which a certain smooth procedure was suggested by the Committee. It also considered the question of giving stack passes for Smt. Hansa Mehta Library to the final year students of the D.T.C. and D.T.T. Courses of the Faculty of Technology and Engineering. The Committee also recommended that the Special Coaching Classes should be started latest by June-July for the students of 1st and 2nd years of Science, Technology and Commerce Degree Courses.

CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

Six hundred and seventy-seven students were registered for the Ph.D. degree in previous years. 74 new students (11 in Faculty of Arts, 34 in Faculty of Science, 15 in Faculty of Education and Psychology, 4 in Faculty of Fine Arts, 5 in Faculty of Technology and Engineering, 4 in Faculty of Medicine and 1 in Faculty of Commerce) were registered for the Ph.D. degree during the period under report. Their details are as under :

<i>Name of the scholar</i>	<i>Name of the guiding teacher</i>	<i>Title of the Thesis</i>
Faculty of Arts		
(1) Shri Shah Kantilal Motilal	Dr. M. G. Gupta	महाराव लखपतिसींह व्यक्तित्व और साहित्यका कृतित्व
(2) Shri Sharma Ramnath Ghurelal	Dr. R. D. Pathak	कबीर और अखा की विचारधारा और
(3) Kum. Kachwala Shyama Ladhusingh	Dr. (Kum.) Premlata R. Bafna	राजस्थान के लोकगीतो का अध्ययन
(4) Shri Pendse Sudhaker Narhari	Prof. A. N. Jani	Oaths and Ordeals in Dharmashastra.
(5) Shri Pandey Sheo Narayan Ram Sunder	Dr. B. S. Suryavanshi	Prithviraj III and his Times.
(6) Shri Tulavardhana Phasook	Prof. R. N. Mehta	The Impact of Hindu and Buddhist Philosophy on Indian and Thai Art.
(7) Shri George K. M.	Prof. R. N. Mehta	Archaeology of Kerala.
(8) Shri Momin Kamarali Noor-mohmed	Prof. R. N. Mehta	The Archaeology of the Kaira and Ahmedabad Districts.
(9) Shri Patel Pravinchandra Jashbhai	Dr. K. C. Panchanadikar	Trade Union and Class Mobilization of Workers—the Baroda Situation.
(10) Shri Pandya Niranjana Maneklal	Prof. V. N. Kothari	Distributional Effects of Post-war Inflation in India.
(11) Shri Mukhopadhaya Ashim Ajit	Dr. K. N. Reddy	Fiscal System and Income Redistribution in India.
Faculty of Science		
(1) Shri Tarwadi Shashikant J.	Dr. S. V. Ganapathi	The role of bacteria in algal-bacterial symbiosis in labora-

<i>Name of the scholar</i>	<i>Name of the guiding teacher</i>	<i>Title of the Thesis</i>
(2) Shri Taman G. A.	Dr. S. V. Ganapati	tory model high rate oxidation ponds.
(3) Kum. Kasargod Sunanda V.	Dr. S. V. Ganapati	Studies on micro-organisms in oxidation ponds.
(4) Shri M. N. Subbarao	Dr. A. Sreenivasan	Microbial Chemistry of algal bacterial symbiosis in laboratory model high rate oxidation ponds using certain mix algae and Baroda raw settled Sewage.
(5) Kum. Saramma Kuriakose	Dr. L. J. Parikh	Some regulatory aspects of RNA metabolism.
(6) Kum. M. K. Kshirsagar	Dr. A. R. Mehta	Studies on lemon (citrus acid) vesicles cultivated in vitro.
(7) Shri S. J. Chokshi	Dr. A. R. Mehta	Invitro Studies in ferns.
(8) Shri K. Venkatasubbaiah	Dr. A. R. Mehta	Studies on growth and alkaloid content in Datura metal call and cell suspension cultures.
(9) Shri Dave J. J.	Prof. C. H. Pathak	Physiological and Bio-Chemical Studies on plant tissues grown sterile culture.
(10) Shri D. O. Shah	Dr. K. N. Trivedi	Studies on the Physiology of germination.
(11) Shri B. K. Patel	Dr. N. H. Shah	Synthesis of Phenanthro indolizidines and related compounds as possible antileukomia compounds.
(12) Shri D. S. Shah	Dr. J. M. Lohar	Intermediate dyes.
(13) Shri N. D. Jadav	Dr. N. H. Shah	Studies in mixed mesomorphism.
(14) Shri J. R. Otia	Dr. (Smt.) R. K. L. Padmini Agarwal	Intermediates and dyes, synthesis of anthracene derivatives.
(15) Mr. John K. Wessly	Prof. V. R. Joshi	Ultrasonic and viscosity studies in liquids and liquid crystals.
(16) Shri R. T. Shah	Dr. J. R. Pandya	Electrical and Optical properties of doped alkali halides.
		Micro-topography and related study of crystal surfaces by high resolution techniques.

<i>Name of the scholar</i>	<i>Name of the guiding teacher</i>	<i>Title of the Thesis</i>
(17) Shri Gandotra Madan Mohan	Prof. (Smt.) I. V. Bhanot	Estimation of some fecundity complements and their relationship to fertility.
(18) Shri Yajnik R. P.	Prof. R. V. Shah	Studies on histophysiology of certain animals.
(19) Shri N. K. Chudagar	Prof. Suresh Sethna	Studies in isoflavones.
(20) Shri K. J. Mathai	Dr. (Smt.) R. Rajlakshmi	Effect of nutrition deficiencies on Brain Enzymes
(21) Shri Vishnu Prakash	Dr. S. K. Srivastava	Studies on Ornithinemetabolism in Plant Tumour Tissues.
(22) Shri Joshi Jayantilal D.	Dr. P. K. Bhattacharya	Studies in some mixed ligand Chelates.
(23) Shri Gadekar D. R.	Prof. S. S. Merh	Geology of the Tertiary rocks of the South Gujarat with special reference to their stratigraphy and sedimentation.
(24) Shri Patel Sharad G.	Dr. S. J. Desai	Geological investigation in the area around Ranibagh and Amritpur (Nainital district) with special reference to its igneous rocks.
(25) Shri Patwa Naresh P.	Dr. C. M. Patel	On convergence and summability of orthogonal series.
(26) Kum. Shroff Anjanababen	Prof. V. V. Modi	Biochemical properties of some Rhizobial species.
(27) Kum. Doctor Freny Homi	Prof. V. V. Modi	Studies on genetic transformation using mutants of Rhizobium species.
(28) Shri Vyas Arvindkumar R.	Dr. V. P. Bhatt	Studies in Crystal Physics.
(29) Shri Deshpande Prabhakar V.	Prof. R. V. Joshi	Luminescence of thaliumdoped alkali halides.
(30) Shri Joshi Parshotam Ambalal	Dr. J. M. Lohar	Studies on Mesomorphism and Chemical Constitution.
(31) Shri Pande Ravindranath	Prof. S. S. Merh	Structural and metamorphic studies in the Ganuichaukhitia Area in Kumaon Himalaya.
(32) Shri Brahmabhatt Dahyabhai T.	Prof. S. S. Merh	Geological Studies of the ground Rikhbdeo (Dist.

Name of the scholar	Name of the guiding teacher	Title of the Thesis
(33) Shri Patel Ramachandra K.	Dr. C. M. Patel	Udaipur) with special reference to the ultramatic rocks. Convergence and symmability of orthogonal series.
(34) Kum. Jhalā Pallavi Harshadrai	Dr. (Smt.) A. Venkatraman	Lipid patterns in health and disease.

Faculty of Education and Psychology

(1) Smt. Kumar Swaranjit Kaur	Dr. S. M. Divekar	A study of the Development of Educational Administration in India through various commissions appointed between 1854 to 1966.
(2) Kum. Pandit Saraswati Shantipriya	Prof. D. M. Desai	A critical study of the contribution of the Arya Samaj to Indian Education.
(3) Kum. Adhyapak Usha Chhotalal	Prof. M. A. Quraishi	The role of Private Agencies in the Development of Education in Gujarat.
(4) Shri Tikmani Suman Choithram	Dr. B. P. Lulla	Critical Evaluation of Administration of Elementary Teacher Education in Gujarat State.
(5) Shri Khanpurkar Hanumant Krishnarao	Prof. M. B. Buch	To prepare and standardise an intelligence test for the children of age group of 13-17 years residing in Marathawada Region.
(6) Kum. Shukla Suhasini Shrimukhram	Prof. M. B. Buch	A study of the spoken and written language of Gujarati Children of Surat district in the age group of 6 to 11 years.
(7) Smt. Pillai Kothai Sivasubramanian	Prof. M. B. Buch	Organisational climate, Teachers' morale School Quality.
(8) Kum. Mubayi Girija Saroop Nath	Dr. G. B. Shah	A study of the Achievement Motive of the Secondary School Pupils of Scheduled Tribes of South Gujarat.

Name of the scholar	Name of the guiding teacher	Title of the Thesis
(9) Shri Moothedath Abu Baker	Prof. D. M. Desai	Centre State relations in Indian Education during the four Plan Periods.
(10) Shri Nemade Vishnu Avachit	Prof. M. A. Quraishi	An inquiry into the Hindi Teaching Programmes at the Secondary School Stage in the States of Gujarat and Maharashtra.
(11) Shri Gangopadhyay Prasanta Kumar Panchkari	Prof. M. B. Buch	Social intelligence and its relationship with abstract and Mechanical Intelligence.
(12) Shri Mahto Balmiki Harkhor	Dr. (Miss) M. Gon	To study the patterns of sex role expectations among the rural and urban men and women.
(13) Kum. Desai Daxa Ramanlal	Prof. A. S. Patel	A study of patterns of self-concept as well as Sex Role Perceptions and Perseverences among Adolescent Boys and Girls of Varied Socio-Economic levels.
(14) Shri Sheth Nirmalkumar Raj Kishore	Prof. A. S. Patel	An analytic study of Linguistics Expression as related to some Personality Valuables.
(15) Shri Saxena Ashokkumar Ayodhya Nath	Dr. (Miss) M. Gon	A Comparative Psycholinguistic Analysis of Sementic structures in different Socio-Economic Classes.

Faculty of Fine Arts

(1) Shri Shastri Kanaiyalal Chunilal	Prof. C. C. Mehta	The contribution of Parsis in Gujarati Theatre.
(2) Shri Mistry Kanaiyalal Somabhai	Prof. R. C. Mehta	The Sitar, an attempt towards its Tonal quality control and Stallishing criteria.
(3) Shri Ghanekar Nilkanth Narhar	Prof. R. C. Mehta	An investigation into and evaluation of new and undocumented Rajas of the post-Bhatkhende period.

<i>Name of the scholar</i>	<i>Name of the guiding teacher</i>	<i>Title of the Thesis</i>
(4) Shri Rekhade Suman Wasudeo	Prof. R. C. Mehta	Terminology of Indian Music, Dance in Marathi Literature.
Faculty of Commerce		
(1) Shri Pathak Dattuprasad Shankarlal	Dr. S. Srikantiah	The working of the Monetary System in India during the Plan Period.
Faculty of Technology and Engineering		
(1) Shri Thakkar Kiritkumar Keshavlal	Prof. S. M. Sen	New Developments in Static Relays for transmission line protection.
(2) Shri Shah Shrikant Girdharlal	Prof. S. M. Sen	Design of compensators in Multi-variable control systems.
(3) Shri Aggarwal Akshaikumar Krishanlal	Prof. S. M. Sen	Graph theoretic and sensitivity analysis of Networks.
(4) Shri Parikh Ratilal Mohanlal	Prof. S. K. Damle	Analytical and experimental studies of the effects of thrust on ultimate moment of reinforced concrete members in biaxial bending.
(5) Shri Joshi Vedavyasa Hanumant Acharya	Prof. Piyush Parikh	Dynamic Behaviour of Soil Material.
Faculty of Medicine		
(1) Shri Mehta Anil Ranchhodji	Dr. P. T. Acharya	Studies on effect of the Maternal Protein Malnutrition on the Growth and Nutritional Status of the Foetus and the Neonatal Infant.
(2) Shri Nair P. Gopinath	Dr. J. P. Saxena	A study on Angiotensinase Activity of various Tissues.
(3) Shri N. Siva Rama Krishna	Prof. O. D. Gulati	Uptake of Amines by Non-neura Tissue.
(4) Shri Pillai K. Venugopal	Prof. O. D. Gulati	Ganglionic Mechanisms of some Drugs.

2. Research Schemes financed by the University

<i>Department</i>	<i>Research Scheme</i>
Faculty of Arts	
History	History of Gujarat under Muslims by Prof. S. C. Misra.
Sanskrit	Preparing a critical edition of the Sahitya Vidyadhari, the earliest commentary on Shri Harsha's Naishadhiya Charitam by Prof. A. N. Jani.
Faculty of Science	
Geology	(i) Tectonic studies of the lower Narbada Valley by Prof. S. S. Merh. (ii) Geological Investigations of Territory Rocks of Broach District with special reference to stratigraphy and sedimentology by Shri D. R. Gadekar.
Botany	Histochemical studies of the short Apex during Transition to flowering by Dr. A. R. Mehta.
Zoology	(i) Comparative studies on the Morphological and Physiological aspects of certain tissues of developing and adult representative vertebrates by Prof. R. V. Shah. (ii) Gonadal cycles of the House-sparrow, <i>Passer Domesticus</i> in Baroda by Dr. R. M. Naik. (iii) Certain studies in reproductive Physiology by Dr. P. M. Ambadkar.
Physics	(i) Fabrication of Field-ion-Microscope for studying atomic arrangement on crystal surfaces by Dr. J. R. Pandya. (ii) Study of Selenium crystals by Prof. N. S. Pandya.
Bio-chemistry	(i) Aminoacid Metabolism in Plant Tumour Tissues cultivated in Vitro by Dr. S. K. Srivastava. (ii) Studies on Lemon fruit Vesicle cultivated in Vitro by Dr. L. J. Parekh.
Faculty of Technology and Engineering	
Applied Mechanics	Shearing Behaviour of Soil by Prof. Piyush Parikh.
Faculty of Social Work	
Social Work	A proposal for Library Research Compilation of Case Records in Social Work by Prof. (Kum.) I. M. Patel.

3. Research Schemes sponsored by the Outside Agencies

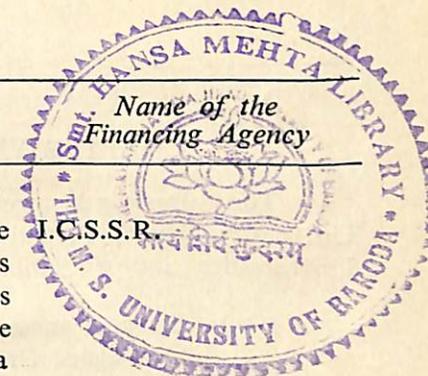
The following schemes in progress have been sponsored by the University Grants Commission, Ministries of Central Government, Department of the Government of Gujarat and other agencies:

<i>Department</i>	<i>Title</i>	<i>Name of the Financing Agency</i>
Faculty of Arts		
Agricultural Economics	Changing Farm Production and Organization in developing Agriculture. A case study of the impact of developmental efforts in Agriculture in a District in Gujarat State	United States Department of Agriculture, Agricultural Research Services, American Embassy, New Delhi under Am PL 480 grants.
Economics	Production Functions and Problems of Agriculture in Gujarat	U.G.C.
Hindi	(i) A Critical study of Ram Rasamrit Sindhu of Kripa nivas	U.G.C.
	(ii) Gujarat ke Alankar Grantha	U.G.C.
Political Science	(i) Decision-making in India's Foreign Policy: The post-Nehru Period	U.G.C.
	(ii) Party Organisation and Party-Behaviour in Baroda city during the year 1972 State Assembly Elections	I.C. S.S.R.
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.
	(ii) Biochemical studies on algal bacterial Symbiosis in high rate oxidation ponds and algal	do

<i>Department</i>	<i>Title</i>	<i>Name of the Financing Agency</i>
	(iii) Amino acid metabolism in plant tumour tissues cultivated in Vitro	C.S.I.R.
	(iv) Physical Status, Chemical and Radiological Status in relation to age and economic in rural and urban areas	U.G.C.
	(v) Studies in Brain Enzymes	U.G.C.
Botany	(i) Survey of Gujarat Forests for (a) Sources of gallo-tannic acid, (b) Medicinal Alkaloids and (c) Tribe uses of Plants for medicine food etc., (d) Academic Studies (Floristic work)	United States Department of Agriculture, Agricultural Research Service, American Embassy, New Delhi under Am PL 480 grants.
	(ii) Antibiotic activity in Ferns	U.G.C.
	(iii) Investigations of the microbial populations of the rhizospheres of economically important plants	U.G.C.
	(iv) Micronutrient deficiencies of sorghum in hydroponic cultures	U.G.C.
	(v) Physiological and Bio-chemical studies of Plant tissues grown in culture	S.I.R.C. Government of Gujarat.
Chemistry	(i) Studies in Liquid Crystalline State	C.S.I.R. New Delhi
	(ii) Studies of Liquid Crystals	S.I.R.C. Government of Gujarat.
	(iii) Studies in Mesomorphic State	S.I.R.C. Government of Gujarat.
Geology	(i) Study of the causes and pattern of Inundation of Rann of Kutch	Ministry of Defence.
	(ii) A Geomorphic analysis of drainage characteristics and development in Kosi and Ramganga basins in Kumaon Himalaya	Ministry of Defence.
Microbiology	(i) Genetic transformation in Rhizobia	United States Department of Agriculture,

Department	Title	Name of the Financing Agency
		Agricultural Research Service, American Embassy, New Delhi under Am PL 480 grants.
Physics	(i) Study of metal crystals	S.I.R.C., Government of Gujarat.
	(ii) Optical studies of Micro indentation hardness of Natural and Synthetic Crystals	S.I.R.C., Government of Gujarat.
Zoology	(i) Histophysiological studies on the wound healing and repair in certain peripheral and visceral organs of diabetic animals	S.I.R.C., Government of Gujarat.
	(ii) Histophysiological studies on regenerating liver of birds and reptiles	U.G.C.
	(iii) The physiological basis of plumage colouration	U.G.C.
	(iv) The Histological and Histochemical studies on the salivary glands of house swift	U.G.C.
	(v) Studies on reproduction in vertebrates	U.G.C.
	(vi) Histochemical and Histophysiological studies on certain muscles of the birds	U.G.C.
	(vii) Histochemical and Histophysiological studies on the tissues of diabetic pigeons	U.G.C.
Faculty of Technology and Engineering		
Electrical Engineering	Automatic Control System, Optimal observer controller	U.G.C.
Physics	Ultrasonic Velocity and Viscosity studies in liquids and liquid crystals	C.S.I.R., New Delhi.

Department	Title	Name of the Financing Agency
Faculty of Home Science		
Home Science Education and Extension	(i) Jobs held by Home Science graduates and competencies needed on the jobs held, as perceived by employed home science graduates of Baroda District	I.C.S.S.R.
	(ii) Values of urban home-makers and the acceptance of Home Science Extension Programme	Ford Foundation.
	(iii) Knowledge possessed by mothers of Pre-school Children regarding Selected Children's diseases	Ford Foundation.
Foods and Nutrition	(i) Assessment of Nutritional status of school going children	Ford Foundation.
	(ii) Organization and Management of the dietary department in the University Halls of Residence	Ford Foundation.
Child Development	(i) A study of the child's life at home—a longitudinal approach	Ford Foundation.
	(ii) A developmental evaluation of pre-school children	Ford Foundation.
Clothing and Textiles	Study of Simulated laundry abrasion	U.G.C.
Home Management	(i) Project II, Phase II. Housing values and Housing satisfactions of urban families	Ford Foundation.
	(ii) Project III—Phase II. Performance characteristics used by families for meal preparation—Heat distribution	Ford Foundation.
	(iii) Thermal efficiency and cost pertherm of different heating appliances—wood, coal, and cow dung used as fuel	Ford Foundation.



CHAPTER VII—LECTURES AND DEPUTATIONS

The following lectures were delivered under the auspices of the University, University Grants Commission's Scheme of Exchange of Teachers between the Universities and/or National Laboratories etc.

(A) Lectures under Extral Mural Grant, U.G.C. Unassigned Grant

Name of the Lecturer	Date	Subject
Faculty of Arts		
Dr. Ashin Das Gupta	25-9-1971 to 27-9-1971	Economic History of India (6 Lectures)
Mr. Paul Scott	23-1-1972	A Passage to India A Post-Foresteran View.
Mr. Jacob Sloan	—	Melville and Mark Twain a Sea Capton and a River Pilot.
Dr. (Mrs.) Allchin	17-2-1972 18-2-1972	Early Pre-history of India.
Faculty of Science		
Dr. K. P. Mathai	15-7-1971	1. Chemistry of Pododacric Acid. 2. Studies in Podocarpic Acid.
Professor I. K. Kothari	17-7-1971	Innovation in Physics Education.
Shri Narian	19-7-1971	PERT.
Professor D. P. Burman	2-9-1971	Molecular Biology of P ₂₂ infected Salmonella typhimallium.
Professor J. A. Roper	15-9-1971	Fungal Genetics.
Dr. N. M. Bhatt	16-9-1971 17-9-1971	History of Statistics.
Dr. R. N. Sukeshwala	17-9-1971 18-9-1971	1. Convection and Magmation. 2. The origin of bosalt Magmas.
Dr. V. L. Patel	17-9-1971	Origin of Plasmor and Magnetic Field Inter-Planetary Space.
Dr. S. S. Rao	20-9-1971	Genetics of immunorespon.
Professor H. J. Arnikaar	28-9-1971	Aquoluminescence.
Professor G. G. Hanshaw	31-10-1971	Demonstrations of different techniques in Tissue Culture.
Professor P. C. Jain	8-11-1971	Numerical Analysis.

Name of the Lecturer	Date	Subject
Professor J. W. Porter	26-11-1971 26-11-1971 27-11-1971	Fatty and Biogenesis. Insect Control and pesticide hazards. Biological Control.
Professor N.M.G. Bhaktan	29-11-1971	Muscle Physiology.
Dr. P. G. Deo	29-11-1971	Dislocations in Metal Crystals.
Dr. T. V. Subbaiah	18-12-1971 4-2-1972	1. Particulate enzymes. 2. Extra Chromosomul foulors and their Multiplication.
	11-2-1972 18-2-1972	3. Chromosomal replication. 4. Genetics and Applied Microbiology.
Dr. B. P. Doctor	29-12-1971	Isolation, purification and characterisation of 5 s RNA and t RNA Cistrans.
Professor T. A. Venkatasubramanian	7-1-1972	Lipid Metabolism in Microbacterium.
Professor V. L. Mote	17-1-1972 to 19-1-1972	1. Linear Programming and Graph Theory. 2. Queueing. 3. Statistical Decision Theory.
Shri V. J. Amin	3-1-1972 } 10-1-1972 } 17-1-1972 } 24-1-1972 }	Biochemical Engineering.
Dr. P. L. Bhatia	18-2-1972	Chemistry of Isoimides.
Dr. K. C. Misra	3-3-1972 } 4-3-1972 }	Ecology (Productivity).
Dr. B. T. Dave	7-3-1972 } 8-3-1972 } 10-3-1972 }	Pancreas and Diabitis.
Professor H. D. Kumar	9-3-1972	Cytology and Genetics of the Blue-Green algae.
Dr. M. M. Bokadia	13-3-1972	The Chemistry of some new non-isopremic monoter-penoids.
Faculty of Technology and Engineering		
Shri K. K. Varier	1-9-1971 2-9-1971	Virar Sabarmati Railway Electrification.
Professor B. V. Ramarao	18-1-1972 to 20-1-1972	Planning consideration in Railway Transportation System.

Name of the Lecturer	Date	Subject
Shri M. N. Gupte	19-1-1972	Air Pollution, Industrial Hygiene.
Professor A. K. Niyogi	19-1-1972	1. Development of P.H.E. administration in India.
	21-1-1972	2. Transmission of diseases through Air and their Prevention.
	25-1-1972	3. Hospital Sanitation.
	2-2-1972	4. Water quality and water born diseases.
	3-3-1972	5. Radiological health.
Shri G. V. Yagnavalkaya	15-3-1972	1. How a Metallurgist is used in Industry.
	to	
	18-3-1972	2. Areas where a Metallurgist can sell his knowledge and thereby participate in production and productivity.
		3. Cast iron.
		4. Non-ferrous castings.

Faculty of Home Science

Dr. D. R. Swayampati	5-11-1971	Employment Potentials of Home Science Graduates in various areas of Home Science.
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Faculty of Social Work

Professor Sugata Dasgupta	9-9-1971	1. Social Work in Changing World Context.
	to	
	11-9-1971	2. Planned Social Change.
		3. Community Organization in developing Society.
		4. Social Policy in developing Nation.
		5. Bureaucracy and Change.
		6. Foreign Aid and Development.

(B) Other Visiting Lecturers

Faculty of Arts

Mr. George L. Posecht	24-7-1971	Certain aspects of Protohistoric Archaeology
Professor Vishwa Nath Pal Misra	9-8-1971	बुद्धि की आध्यात्मिक तथा सांस्कृतिक दृष्टि
Dr. A. P. Dixit	21-8-1971	युगबोध और आधुनिक साहित्य

Name of the Lecturer	Date	Subject
Dr. B. Mishra	20-9-1971	प्राचीन साहित्य की उपयोगिता और महत्त्व
Dr. (Mrs.) Bridget Allchin	20-12-1971	Early Pre-history of India.
Professor Jayendra Trivedi	22-2-1972	नयी कहानी
Faculty of Science		
Dr. K. J. Divetia	22-5-1971	Variable Energy Cyclotron Project.
Dr. J. D. Pathak	27-7-1971	Gastric Evacuation.
Dr. Saxena	11-8-1971	Hypothomia.
Dr. Chikramani	2-9-1971	Malnutrition in Children.
Dr. K. Bhanumurti	10-9-1971	The role of a Statistician in an Industry.
Dr. C. F. Hesseltine	4-10-1971	Fermentation programme of Northern Marketing and Nutritional Research Division, A.R.S.
Shri D. C. Patel	18-11-1971	Study of some mixed and outer sphere complexes.
Dr. D. B. Johnson	22-11-1971	A talk on Utilization of Forest Waste Materials.
Dr. S. K. Mehta	26-11-1971	Symbolic Logic, a tool to the Production Planner.
Dr. P. M. Amin	3-12-1971	Research Project taken up by RRL.
Dr. M. R. Iyengar	8-1-1972	Fungal Cellulases.
Dr. M. N. Vartak	21-1-1972	Two Adjugate Model Designs.
	22-1-1972	Statistical Metric Spaces.
Shri J. D. Mehta	8-2-1972	Sorption and separation studies with Cation Exchange Resins.
Dr. Precope	8-2-1972	Some engineering aspects of hydro-carbon metabolism.
Dr. (Kum.) Leela Murthy	2-3-1972	Gene Regulation.
Professor A. B. Biswas	3-3-1972	Molecular Engineering.
	4-3-1972	Monolayer properties of long chain compounds and water evaporation control.
Dr. L. Feinstein	8-3-1972	Market quality research on grains and meats.

<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
Professor J. R. Merchant	10-3-1972	Chemical investigation of some indigenous medicinal plants.
	11-3-1972	Reaction of thionyl and sulphuryl chlorides with flavones and related compounds.
Faculty of Law		
Shri P. M. Kathiresan	2-3-1972	Role of the Bar Council in Legal Education.
Shri A. N. Veeraraghavan	2-3-1972	The Advocates Act.
Shri Girishbhai C. Patel	13-3-1972	1. Analytical Positivism.
	to	2. Natural Law Philosophy.
	18-3-1972	3. Concept of Personality.
		4. Constitutional Amendments.
Faculty of Social Work		
Dr. Srivastav	18-6-1971	Social Science Research Methodology.
Shri H. D. Koperdekar	17-9-1971	Twin City Project.

2. Deputation to Conferences

The following members of the University Staff were deputed to attend Conferences, Seminars etc. show against their names, as delegates of the University.

Faculty of Arts

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
(1) Professor A. G. Javdekar, Professor of Philosophy	XXI Annual Session of Indian Philosophical Association, Poona from 3rd to 6th June, 1971.
(2) Professor R. N. Mehta, Head, Department of Archaeology and Ancient History	Indian Archaeological Society at Poona from 25-10-1971 to 27-10-1971.
(3) Dr. K.T.M. Hegde, Reader in Archaeology	Indian Archaeological Society at Poona from 25-10-1971 to 27-10-1971.
(4) Shri M. M. Dadi, Reader in Economics	Seminar on Quantitative Economics at Sardar Patel Research Institute, Ahmedabad from 13-9-1971 to 16-9-1971.

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
(5) Dr. S. R. Hashim, Reader in Economics	Seminar on Quantitative Economics at Sardar Patel Research Institute, Ahmedabad from 13-9-1971 to 16-9-1971.
(6) Professor S. C. Misra, Head, Department of History	41st Session of the Indian Historical Records Commission at Trivandrum from 7-10-1971 to 9-10-1971.
(7) Professor A. N. Jani, Professor of Sanskrit	26th Session of the All India Oriental Conference at Ujjain from 26-12-1971 to 28-12-1971.
(8) Dr. S. G. Kantawala, Reader in Sanskrit	26th Session of the All India Oriental Conference at Ujjain from 26-12-1971 to 28-12-1971.
(9) Professor A. G. Javdekar, Head, Department of Philosophy	Indian Philosophical Congress at Hyderabad from 27-12-1971 to 30-12-1971.
(10) Shri M. M. Desai, Assistant Lecturer in Gujarati	22nd Conference of Collegiate Teachers of Gujarati at Gujarat Vidyapith, Ahmedabad on 28-10-1971 and 29-10-1971.
Faculty of Science	
(11) Shri G. T. Malphatak, Lecturer in Geology	Seminar on Water Resources of Rajasthan and Gujarat, at Jaipur on 5th and 6th May, 1971.
(12) Shri C. C. Shah, Reader in Mathematics	Seminar on Community Science Centre, Ahmedabad from 24th to 29th May, 1971.
(13) Shri Raojibhai C. Patel, Lecturer in Mathematics	Seminar on Community Science Centre, Ahmedabad from 24th to 29th May, 1971.
(14) Dr. A. K. Mattoo, Lecturer in Microbiology	Annual Meeting of Association of Micro-Biologists of India at Varanasi from 22-10-1971 to 24-10-1971.
(15) Dr. K. N. Trivedi, Reader in Organic Chemistry	Convention of Chemists at Bombay from 28-10-1971 to 31-10-1971.
(16) Shri C. C. Shah, I/C Head, Department of Mathematics	Gujarat Ganit Mandal at Bombay on 23-10-1971 and 24-10-1971.
(17) Dr. V. M. Shah, Reader in Mathematics	Gujarat Ganit Mandal at Bombay on 23-10-1971 and 24-10-1971.

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
(18) Shri J. D. Mehta, Assistant Lecturer in Chemistry	Convention of Chemists held at Bombay from 28-10-1971 to 31-10-1971.
(19) Shri P. K. Bhattacharya, Reader in Chemistry	Annual Convention of the Indian Chemical Society at Bombay from 28-10-1971 to 31-10-1971.
(20) Shri M. V. Chidambaram, Assistant Lecturer in Chemistry	Annual Convention of the Indian Chemical Society at Bombay from 28-10-1971 to 31-10-1971.
(21) Shri N. P. Salvi, Lecturer in Chemistry	Seminar on "Student Judiciary and Student Indiscipline" organised by USEFI, New Delhi in early November, 1971.

Faculty of Education and Psychology

- (22) Professor A. S. Patel, Professor of Psychology
XVII International Congress of Applied Psychology at Liege-Belgium from 25-7-1971 to 30-7-1971.
- (23) Professor D. M. Desai, Dean, Faculty of Education and Psychology
14th Annual Conference of the Indian Association of Teacher Education at Allahabad from 11-10-1971 to 14-10-1971.

Faculty of Commerce

- (24) Shri J. K. Shah, Lecturer in Business Economics
Third Gujarat Economic Conference at Sardar Patel University, Vallabh Vidyanagar on 11-10-1971 and 12-10-1971.
- (25) Shri R. G. Nambiar, Lecturer in Economics
Seminar on Quantitative Economics at Sardar Patel Research Institute, Ahmedabad from 13-9-1971 to 16-9-1971.

Faculty of Technology and Engineering

- (26) Dr. M. H. Vasavada, Reader in Mathematics
Seminar on Community Science Centre, Ahmedabad from 24th to 29th May, 1971.
- (27) Dr. D. C. Kantawala, Reader in Civil Engineering
Conference on "Water in man's life in India" at New Delhi on 5-8-1971 and 6-8-1971.
- (28) Shri Y. A. Shaikh, Assistant Lecturer in Chemistry
Convention of Chemists at Bombay from 28-10-1971 to 31-10-1971.

<i>Name of the member of the staff</i>	<i>Name, place and dates of the Conferences, Seminars etc.</i>
(29) Shri C. S. Lalwani, Lecturer in Electrical Engineering	Symposium on "Systems Control and Applications" at Roorkee from 16th to 18th December, 1971.
(30) Shri R. A. Vora, Assistant Lecturer in Chemistry	Convention of Chemists held at Bombay from 28-10-1971 to 31-10-1971.
Medical College	
(31) Dr. V. P. Bhatt, Dean, Medical College	National Conference on Medical Education at New Delhi from 26-9-1971 to 28-9-1971.
(32) Professor O. D. Gulati, Professor of Pharmacology	The XVII Annual Conference of Association of Physiologists and Pharmacologists of India at Trivandrum from 21-12-1971 to 23-12-1971.
Faculty of Fine Arts	
(33) Shri S. M. Nair, Lecturer in Museology	Attended 2nd International Bio-deterioration Symposium in Holland and 9th General Conference in Paris and Grenobla and visited museums and related laboratories in U.K. in August, September and October, 1971.
Faculty of Social Work	
(34) Shri B. J. Pandya, Lecturer in Social Work	All India Seminar on the Role of People in the Prevention of Crime and Treatment of offenders at Kanpur on 19th and 20th June, 1971.
University Office	
(35) Shri M. C. Pathak, Senior Superintendent, Examination Section, University Office	Seminar on 'Examination Processing' at Bombay on 5th July, 1971.

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

2. Number of Students

The number of students enrolled in various classes during the year 1971-72 was as under :

Class	Men	Women	Total
(1) Certificate Course in German	196	11	207
(2) Certificate Course in Russian	14	2	16
(3) Certificate Course in French	78	—	78
Total :	288	13	301
(4) Diploma Course in Russian	08	01	06
(5) Advance Course in Russian	01	03	04
(6) Diploma Course in German	25	06	31
(7) Advance Course in German	05	—	05
Total :	39	10	49
(8) F.Y.B.A.	310	296	606
(9) S.Y.B.A.	339	379	178
(10) T.Y.B.A.	201	310	511
(11) Library Science Degree	2	19	21
Total :	852	1004	1856
(12) M.A. Part I	91	45	136
(13) M.A. Part II	56	45	101
Total :	147	90	237
(14) Ph.D.	6	1	7
Grand Total :	1332	1118	2450

3. Staff

(a) Present Position :

During the year the staff of the Faculty consisted of 7 Professors (three of whom are in the senior scale), 17 Readers, 46 Lecturers, 11 Assistant Lecturers, 3 part-time Lecturers, One Hon. Lecturer, 20 Class III other staff including technicians and 22 class IV employees. The teachers of the Faculty carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in courses.

(b) New appointments :

- (1) Shri S. K. Verma, Lecturer in Agricultural Economics.
- (2) Shri H. S. Shelat, Lecturer in English.
- (3) Smt. R. V. Vanikar, Lecturer in English.
- (4) Dr. S. M. Dave, Lecturer in Gujarati.
- (5) Dr. Syed Waheed Ashraf, Lecturer in Persian.
- (6) Smt. S. S. Deshpande, Lecturer in Sanskrit.
- (7) Shri P. J. Patel, Lecturer in Sociology.

(c) Teachers upgraded:

Dr. C. K. Sheshadri, Lecturer in English was promoted and appointed as Reader in in English.

(d) Teachers who left the University:

- (1) Smt. K. S. Patel, Lecturer in English For going abroad.

4. Professional Growth of the Staff

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

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(1) Prof. R. N. Mehta	(i) પુરાવસ્તુવિદ્યામાં જ્વલસંચય	ગુજરાત દીપોત્સવી અંક
	(ii) સ્થળતપાસ અને ઉત્ખનન દ્વારા મળતી માહિતી	ગુજરાતના ઇતિહાસના પ્રકરણો
	(iii) An Amitabha Buddha(?) Image from Chavaj	Journal of the Oriental Institute, Vol. XX, No. 2, December 1970.
	(iv) Explorations in the Daskroi Taluka, District Ahmedabad.	Journal of the M. S. University of Baroda, Vol. XIX, No. 1, April 1970.

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(2) Dr. K.T.M. Hegde	(i) Metallurgical Studies—Copper Objects Excavated from Somnath	Excavations at Somnath by Dr. R. N. Mehta et al Baroda, 1971.
	(ii) Soil Studies	Excavations at Jokha by Dr. R. N. Mehta et al Baroda 1971.
	(iii) The Metal Axe	Excavations at Jokha by Dr. R. N. Mehta et al Baroda, 1971.
	(iv) Metallurgical Studies in Copper Artifacts from Navdatoli	Chalcolithic Navdatoli by Dr. H. D. Sankalia, et al Poona-Baroda, 1971.
	(v) Chemical Treatment Preservation and Analytical Study of Pannar Coins	Current Science, December 5, 1971
	(vi) Metallurgy in Ancient India	Science To-day, March, 1972.
	(vii) The Pleistocene Stratigraphy in India	Archaeological Congress and Seminar Paper, Nagpur, 1972. (with Dr. S. N. Rajaguru)
	(viii) Physics and Chemistry in Indian Archaeology	Archaeological Congress and Seminar Papers, Nagpur, 1972.
	(ix) The Background to Early Man in Gujarat, Preliminary Report	Baroda Expedition —1970-71 Season Journal of M. S. University, Baroda, Vol. XIX, No. 1, April 1972, co-author with Dr. B. Allchin and Dr. A. S. Goudie.
	(x) A recently formed Black Cotton Sil in Gujarat	Journal of M, S. University of Baroda, Vol. XIX, No. 1, April 1972.

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(2) Dr. K.T.M. Hegde (continued)	(xi) Chemical Analysis of Mitathal Copper Objects	Studies in Museology, Vol. 1972.
(3) Prof. M. B. Desai	Baroda City—Potentialities and Pitfalls.	M.S. University Economics Series, No.1, 1971.
(4) Prof. V. N. Kothari	(i) Educated Unemployment in India.	Artha-Vikas, January 1971
	(ii) Concentration of Industries in India	Journal of M. S. University of Baroda, Vol. XIX, No. 2, July 1970.
(5) Dr. K. N. Reddy	The Pattern of Expenditure Growth of Administrative services in India: 1872-1967	Indian Journals of Public Administration, April 1971.
(6) Dr. M. M.. Dadi and Dr. S. R. Hashim	An Adjusted Capital Series for Indian Manufacturing: 1946-64	Anvesak, Journal of Sardar Patel Institute of Economics and Social Research, December 1971.
(7) Dr. S. R. Hashim	Town size and Functions in Market-Towns and Spatial Development.	National Council of Applied Economic Research, January 1972.
(8) Shri N. M. Pandya	(i) Ricardo and Marx on Labour Theory of Value	Indian Economic Journal, Conference Number, January 1972.
	(ii) Growth Characteristics of South Gujarat Towns.	Journal of M. S. University of Baroda, July 1970.
(9) Shri B. B. Patel	Price Spread and Farmers' Share : Oil and Groundnut in Gujarat.	Economic and Political Weekly, 17th July, 1971.
(10) Dr. J. D. Birje-Patil	Marriage Contract in Measure for Measure	Shakespeare Studies, Vol. V.
(11) Dr. C. K. Seshadri	TESL and Spoken English in Indian Context	Journal of M. S. University, Vol. XIX.

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(12) Shri R. K. Rawal	Lord Jim—An Existential Analysis	Journal of M. S. University, Vol. XVIII
(13) Dr. M. G. Gupta	(i) सरकी प्रसंगोदभावना	सरस्वती, नवम्बर १९७१
	(ii) बुदेलखंड का प्रेमकाव्य, हिताई चरितः एक मूल्यांकन	सम्मेलन पत्रिका, भाद्रपद, १८९३
	(iii) पंतके काव्यकी सांस्कृतिक चेतना	आधार, त्रैमासिक, मार्च, १९७२
	(iv) गुजरात के हस्तलिखित हिंदी ग्रंथों का विवरण	विमर्श, मार्च, १९७२
(14) Dr. D. S. Shukla	(i) मिथ्या वासुदेव भाळ एक परिदृष्टि	सम्मेलन पत्रिका, इलाहाबाद
	(ii) हिन्दी का यात्रासाहित्य	Contributed to the Book साहित्यिक निबंध published in March, 1972.
(15) Dr. (Kum.) P. R. Bafna	(i) महाराणा का महत्व	युगचेतक प्रसाद विशेषांक
	(ii) पंत के काव्यरूपक	Contributed to the Book पंत का काव्यवैभव published in February, 1972.
(16) Dr. B. D. Sharma	(i) मालवी का भाषा-वैज्ञानिक अध्ययन	वीणा मासिक, इन्दौर, अक्टोबर, १९७१
	(ii) मालवी पर अरबी-फारसी का प्रभाव	मध्यप्रदेश संदेश, मार्च, १९७२
	(iii) डॉ. भारती के उपन्यासों में मध्यवर्ग की मूक वेदना	विकास, पटना, डीसम्बर, १९७१
(17) Dr. R. M. Patel	(i) गुजरातभां उरी उद्योग	१. स्यालराव स्मारक संशोधन समिति
	(ii) पुस्तकानां अवलोकनो	२. "स्वाध्याय," त्रैमासिक
(18) Shri M. M. Desai	(i) पुस्तकानां अवलोकनो	"स्वाध्याय," त्रैमासिकना विविध अंके
	(ii) कलापी—अेक अध्ययन	Journal of M. S. University, December, 1971.
(19) Shri D. D. Mahulkar	A Poesy of Prose	Somaiya Publications Bombay, March, 1972.

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(20) Professor K. S. Desai	Panchayati Raj in Gujarat : Problems and Prospects	Journal of the National Academy of Administration, Special Number on Rural Local Government, Vol. XVI, No. 3, July-September, 1971, pp. 8-41
(21) Professor A. G. Javadekar	(i) श्रीमद् भगवद्गीता—एक धर्मशास्त्र (हिंदी)	वैदिक धर्म, पारडी, मार्च-एप्रिल, १९७१
	(ii) गीतेचा श्रेष्ठ धर्मवाद (मराठी)	पुरुषार्थ, पारडी, एप्रिल, १९७१
(22) Professor A. N. Jani	Fresh light on Panini's Sutra Tasyadita Udattam-ardhahrasvam	K. C. Chattopadhyaya Felicitation Volume Part I, Journal of the Ganganath Jha Kendriya Sanskrit Vidyapeeth, Vol, 27, Part 3-4, July-October, 1971.
(23) Dr. S. G. Kantawala	(i) The Puranas and Epics as sources of Religious, Social and Cultural History of India.	Journal of M. S. University of Baroda, Vol. XIX, No. 1
	(ii) ऋग्वेद अग्निदेवता (in Sanskrit)	Annual Issue of Sanskrit Mahavidyalaya, Baroda, 1971.
	(iii) उत्तररामचरितस्य रस-मीमांसा (in Sanskrit)	Bulletin of the Bharati Parishad, Prayag (U. P.), 1971-72.
	(iv) Vishvamitra Nadi Sukta (in Hindi)	Veda Issue of Vishvajyoti Part I, Hoshiarpur, Punjab, 1972.
(24) Dr. K. C. Panchanadikar and Dr. (Smt.) J. M. Panchanadikar	Modernisation and Planned Development—The Indian Situation	Professor Irawati Karve Memorial Volume, Deccan College, Poona.
(25) Dr. K. C. Panchanadikar	Theory of Social Change in Modern Sociology	Nagpur Times, Vol. XXIV, No. 71 and No. 72, 15th and 16th March, 1972

Name	Title of Articles or papers	Name of the Journal wherein published with month of Publication
(26) Dr. R. D. Parikh	Social Content in Women's Magazines, A Study of two Women's Weeklies in Gujarati.	Journal of M. S. University of Baroda (Social Sciences Number), Vol. XIX, July 1970, pp. 35-37.
(27) Kum. B. S. Desai	Social Consequency of Urban Industrial Employment of Koli Caste of Village Vesma.	Journal of M. S. University of Baroda (Social Science Number), Vol. XIX, 2nd July, 1970 pp. 53-71.
(28) Shri S. D. Joshi	Gujars of Khandesh (w.r.t. Prakas Village)	Journal of M. S. University of Baroda (Social Science Number), Vol. XIX, 2nd July, 1970, [pp. 39-51.
(b) Publication of Books :		
(1) Prof. R. N. Mehta	Excavation at Jokha	M.S. University of Baroda, 1971.
(2) Dr. K. N. Reddy	The Growth of Public Expenditure in India : 1872-1968	Sterling Publishers (P) Ltd., New Delhi, January, 1972
(3) Economics Department	Profiles of a Growing City : Socio-Economic Studies of Baroda City	The M.S. University Economics Series No. 1, 1971 Published at the time of 2nd Gujarat Economic Conference held at Baroda in January, 1971.
(4) Shri R. M. Pancholi	Three Chapters on Greek and Roman Epics and Greek Poetry with some specimens translated into Gujarati verse	Gyangangotri, Volume IV Sardar Patel University Vallabh Vidyanagar.
(5) Gujarati Department	(i) ભાલણી—એક દ્વિતીયન Second Edition of the Seventh Volume of the Prachin Gurjar Granthmala (edited by Prof. K. K. Sastri)	M. S. Uni. of Baroda.

Name	Title of the Book	Name of the Publisher with month of Publication
(ii)	Professor B. K. Thakore Publication Series—Publication of the literary material of late Professor B. K. Thakore	M. S. Uni. of Baroda.
(6) Dr. S. H. Joshi	(i) કાવ્યચર્યા : કવિતા વિષયક વિવેચન લેખો : (ii) ઇદમ સર્વમઃ સાહિત્યિક નિબંધો (iii) શ્રુતવન્તુ : ભાષણો અને લેખો (iv) નવોન્મેષ : છેલ્લા દાયકાની ગુજરાતી કવિતા-ઓનો સંગ્રહ	આર. આર શેઠની કું; મુંબઈ : જૂન, ૧૯૭૧. પુટાલા એન્ડ કું., વડોદરા, જુન, ૧૯૭૧. પુટાલા એન્ડ કું. વડોદરા, નવ્યુઆરી, ૧૯૭૨. સાહિત્ય સંસદ, શાન્તાકુંઝ, મુંબઈ. ફેબ્રુઆરી, ૧૯૭૨.
(7) Professor A. G. Javadekar	Late Dr. R. D. Ranade-Memorial Lecture Series 1969	University of Poona, Poona, November, 1971.

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

Name of the Teacher	Name, Place and date of the Conference/ Seminar	Title of the paper presented
(1) Dr. K. T. M. Hegde	International Symposium on Radiocarbon and Indian Archaeology, Tata Institute of Fundamental Research, Bombay, 7-11 March, 1972	(1) Background to early Man in Gujarat—Some Recent Observations (2) Early stages of Metallurgy in India
(2) Prof. V. N. Kothari	The Golden Jubilee Celebration Seminar on 'Performance and prospects of the Indian Economy, organised by the Centre for Advanced Study in Industrial Economics, University of Bombay, March, 1972	The Relevance of Lewis Model of Growth in India

Name of the Teacher	Name, Place and dates of the Conference/Seminar	Title of the paper presented
(3) Dr. K. N. Reddy	Third Gujarat Economic Conference October at Vallabh Vidyanagar, Sardar Patel University, 11-12 October, 1971	A Case for the Abolition of Octroi in Gujarat: Some Alternatives.
(4) Dr. M. M. Dadi and Dr. S. R. Hashim	Seminar on Quantitative Economics, Sardar Patel Institute of Economics and Social Research, Ahmedabad, Sept., 1971	Capital-Output Relations in Indian Manufacturing 1946-1964.
(5) Dr. S. R. Hashim	Seminar on Market Towns and Spatial Development, NCAER, New Delhi, April, 1971	Town Size and Functions.
(6) Shri N. M. Pandya	Third Gujarat Economic Conference, Vallabh Vidyanagar, October, 1971	An Analysis of Non-Workers; A possible clue to the Underestimation of Unemployment in the 1961 Census
(7) Smt. M. N. Shah	Third Gujarat Economic Conference, Vallabh Vidyanagar, October, 1971	An Analysis of Stability and Variation in Labour force Participation suggesting underestimation of Unemployment
(8) Kumari S. S. Kanetkar	Third Gujarat Economic Conference, Vallabh Vidyanagar, October 1971	Invisible Underemployment among the Educated Persons: Some Methodological Problems
(9) Shri R. M. Pancholi	All India Conference on British and American Fiction (1940-70) at Sardar Patel University, Vallabh Vidyanagar	William Golding's Lord of the Flies—A Parable of Political Disaster
(10) Dr. B. D. Sharma	Research Seminar in 'Malva Mele' at Ratlam, June, 1971	मालवी का भाषावैज्ञानिक अध्ययन

Name of the Teacher	Name, Place and dates of the Conference/Seminar	Title of the paper presented
(11) Dr. M. G. Gupta	Gujarat University, Ahmedabad, 15th September, 1971	स्वातंत्र्योत्तर हिंदी साहित्य
(12) Prof. A. N. Jani	International Sanskrit Conference, Delhi, March 1972	Contribution of Gujarat to Sanskrit (20th Century)
(13) Dr. S. G. Kantawala	International Sanskrit Conference, Delhi, March 1972	Sanskrit and Archaeology

(d) Talks given at different Universities :

Name of the Teacher	University/College	Subject of the Lecture
(1) Professor R. N. Mehta	Gujarat University	Pre-History of India
(2) Professor V. N. Kothari	H. A. College of Commerce, Ahmedabad, January 1972 as Visiting Professor	Sources of Economic Growth in India
(3) Shri R. N. Mehta	South Gujarat University, (U.G.C. Lectures) 4-5, March 1972)	(i) The Poetry of Walt Whitman (ii) Arthur Miller's Death of a Salesman
(4) Shri R. M. Pancholi	South Gujarat University, 24-1-1972, Rajpipla	Graeco-Roman Epic Tradition.
(5) Dr. M. G. Gupta	(i) S. P. Uni., Vallabh Vidyanagar. (ii) Kanpur University	आदिकालः समय-सीमा और काव्य-धाराएं प्रसाद का काव्य
(6) Dr. R. M. Patel	Arts College, Miyagam Karjan (Gujarat Uni. Lecture)	कालोत्तरे प्रथम—श्रेष्ठ दृष्टि

Name of the Teacher	University/College	Subject of the Lecture
(7) Professor A. G. Javadekar	(i) Sardar Patel Uni., Vallabh Vidyanagar, 25th December, 1971	Inaugural Address on Philosophy of Education at the Advanced Training Course for Lecturer in Education in Gujarat State.
	(ii) Academy of Comparative Philosophy and Religion, Belgaum, Mysore State, 23rd to 27th March, 1972.	"Moral Philosophy in the light of the Bhagavadgita" (Being the Late Gurudev Dr. R. D. Ranade Memorial Endowment Lecture Series).
(8) Prof. A. N. Jani	Rajasthan Uni., Jaipur	Contemporary Sanskrit Poetry.
(9) Dr. K. C. Panchanadikar	(i) Nagpur Uni., January-February 1971	Three lectures on 'Theory of Social Change in Modern Sociology.'
(e) Participation in Inservice and other Programmes :		
(1) Prof. R. N. Mehta and Dr. B. Suryavanshi	Seminar Director on Teaching of History on Original Sources, at Baroda.	
(2) Prof. V. N. Kothari	Presided over the discussion group on Concepts and Measurements of Unemployment at the 3rd Gujarat Economic Conference held at Vallabh Vidyanagar in October, 1971.	
(3) Dr. K. N. Reddy	Rapporteur for the Session on 'Local Finance in Gujarat' at the 3rd Gujarat Economic Conference held at Vallabh Vidyanagar in October, 1971	
(4) Dr. M. M. Dadi	Rapporteur for the Session on 'Concepts and Measurement of Unemployment' at the 3rd Gujarat Economic Conference held at Vallabh Vidyanagar in October, 1971.	
(5) Dr. J. D. Birje Patil	Worked as a Senior Fulbright Hays Post-Doctoral Research Fellow at the Graduate School, Yale University; attended the English Institute at Columbia University and P.M.L.A. Conference at Chicago.	

- (6) Shri R. N. Pancholi Served on the Teaching Staff of the U.G.C. Summer Institute in English Language Teaching at Surat and at Ahmedabad May-June, 1971 and October-November, 1971 respectively.
- (7) Dr. C. K. Seshadri Awarded an Alumni Research Grant of Rs. 3,500 by USEFI for preparing teaching material to improve students' achievement in English at their First Year in Universities.
- (8) Shri N. C. Desai Worked as Honorary Organizer for conducting આરવ.કે and સર્કાર examinations of Gujarat Sahitya Parishad at Baroda.
- (9) Prof. A. N. Jani } Participated in the Seminar 'Sources of Ancient Indian History' at Baroda.
(10) Dr. S.G. Kantawala }
- (11) Dr. K. C. Panchanadikar (i) Participated in UNESCO Conference of Experts on 'Colonial Influence in the Creative Artist, his Milieu and his Public' held in Da-res-Salaam, Tanzania, East Africa.
(ii) Nominated as a member on the Standing Committee for Sociology and Social Work, of the ICSSR for a period of 2 years.
- (12) Kum. Bharati S. Desai Participated in a 8 week advanced Summer Course on 'Research Methods and Social Sciences' at Calcutta.
- (13) Shri P. J. Patel Participated in a 6 week Summer Course on 'Research Methodology' at Bombay.
- (14) Prof. K. S. Desai (i) Worked as a member of the Review Committee appointed by Shri Vankateshwara University at Tirupati to examine the working of the different departments of one of their University Colleges.
(ii) Participated in USIS Seminar on 'Political Development and Foreign Policy' held at Bombay.
- (15) Shri A. P. Rana Commissioned by the ICSSR to write a Trend Report on Indian Scholarship in International Relations.

(f) Research Work done by Teachers.**(i) Research work completed**

- (1) Teachers of the Archaeology Department
 (i) Explorations at Champaner (3rd Session)
 (ii) Exploration at Cambay, Kaira District
 (iii) Exploration in the Panchmahal District
 (iv) Studies in Early Historic Iron Smelting of Dhatwa
- (2) Dr. M. G. Gupta Gaja Singh Champai—Critical Study
- (3) Shri A. P. Rana The Foreign Policy of Jawaharlal Nehru
- (ii) Research Work in Progress**
- (1) Teachers of the Archaeology Department Studies on Quarternary Climatic Changes in Gujarat and Rajasthan
- (2) Dr. K. N. Reddy The Trend of Government Activity in India since Independence
- (3) Dr. M.M. Dadi and Dr. S. R. Hashim Capital Structure and Growth in Indian Industries
- (4) Prof. A. N. Jani
 (i) Kalikapurana Text with Gujarati translation and introduction.
 (ii) Editing Saptasati with Gujarati translation
- (5) Dr. S. G. Kantawald Studies in Vedic Mythology and some problems of Puranas

5. Faculty Union Activities

(1) The Faculty Students' Association prepared and circulated a questionnaire among the F.Y.B.A. students for the coordination of teaching at the F.Y.B.A. classes. They prepared a report on the basis of the replies to the questionnaire and submitted the same to the University.

(2) The Students' Gift Book Section of the Sociology Department purchased new books and also received some as gifts from USIS. The total number of books in the section stood at 81 at the end of the year. The books were issued to B.A. and M.A. students for overnight and day reading.

(3) The students and teachers of the Faculty extended co-operation for the Civil Defence Organisation effort during the Indo-Pak War in December, 1971.

(4) The Faculty Students' Association collected an amount of Rs. 500 for the National Defence Fund.

6. Library

The Faculty has a common library with Smt. Hansa Mehta (University) Library.

7. Museum Laboratory, Studies, Workshops etc. (Department of Archaeology and Ancient History)

Sr. No.	Item	Cost of Equipment as on 1-4-1971 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 31-3-1972 Rs.
(1)	Museum	4,533-98	—	—	4,533-98
(2)	Studio	15,320-40	—	—	15,320-40
(3)	Drawing Equipment	1,806-75	—	—	1,806-75
(4)	Dead-stock Equipment	63,138-17	—	4,499-11	67,637-28
(5)	Excavation Equipment	1,622-05	—	—	1,622-05
		86,421-35	—	4,499-11	90,920-46

Visitors Name	Date of Visit
(1) Madam Vera Savic, Specialist on Indian Civilisation, France	2-4-1971
(2) Dr. J. H. Copp, Chief Human Resources, Washington, U.S.A.	20-4-1971 to 23-4-1971
(3) Professor Robert Evanson, Professor of Economics, Yale University, U.S.A.	21-9-1971
(4) Professor (Miss) Vaudeville, Professor of Languages and Indology, Paris, France	4-11-1971 5-11-1971
(5) Delegation under the leadership of Dr. S. R. Spencer, President, Davidson College, North Carolina, U.S.A.	12-11-1971
(6) Professor J. M. Hardman, Education Officer, British Council, Bombay	6-1-1972
(7) Professor V. K. Gokak, Director, Institute of Advanced Studies in English, Simla.	19-1-1972 to 22-1-1972

CHAPTER IX—FACULTY OF SCIENCE

1. Courses of Studies

(a) There is provision for teaching the following courses:

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

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

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

The M.Sc. course is of two years' duration after B.Sc. and 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 the minimum period of its duration is two years after M.Sc.

(b) *New Courses introduced during the year:*

The courses at the M.Sc. (Final) in Physics in Quantum Mechanics and Electrodynamics were re-organised.

2. Number of Students

The number of men and women students on roll in various classes in the year 1971-72 was as under:

Class	Boys	Girls	Total
(1) Diploma in Laboratory Techniques:			
(a) First Year	7	1	8
(b) Second Year	3	1	4
Total	10	2	12
(2) Pre-Medical	123	20	143
(3) F.Y.B.Sc.	233	110	343
(4) S.Y.B.Sc.	254	132	386
(5) T.Y.B.Sc.	235	104	339
Total	845	366	1,211

Class	Boys	Girls	Total
(6) M.Sc. (Previous)	124	37	161
(7) M.Sc. (Final)	89	36	125
(8) M.Sc. (Applied Geology)	1	—	1
Total	214	73	287
(9) Ph.D.	46	14	60
Grand Total	1,115	455	1,570

3. Staff

(a) *Present Position:*

The staff of the Faculty consisted of 13 Professors (three of whom are in the Senior Scale), 26 Readers, 65 Lecturers, 67 Assistant 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.

(a) *New Appointments:*

Sr. No.	Name	Designation
1.	Dr. M. Shreehari	Reader in Statistics
2.	Dr. M. P. Patel	Lecturer in Geology

(b) *Teachers upgraded:*

1.	Shri D. M. Shringarpure	as	Lecturer in Geology
2.	Dr. A. B. Darji	as	Lecturer in Physics
3.	Shri V. D. Pathak	as	Lecturer in Mathematics

(c) *Teachers who left the University:*

1.	Dr. P. J. Desai	Lecturer in Geology—Resigned for going abroad.
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4. Professional Growth of the Staff

(a) *Publication by the members of the Staff:*

(i) *Articles:*

Sr.No.	Author	Title	Journal
(1)	Rajalakshmi R.	Reproductive performance of poor Indian women on a low plane of nutrition	Tropical and Geographical Medicine, 23, 117 (1971).

Sr.No.	Author	Title	Journal
(2)	Rajalakshmi R., Thrivikraman K. V. and Ramakrishnan C. V.	(i) Protein deficiency and regional chemistry of the brain. Part I: Effects of protein deficiency on regional distribution of protein, glutathione and ascorbic acid in rat brain (ii) Protein deficiency and regional chemistry of the brain. Part II: Effects of protein deficiency on regional distribution of enzymes of glutamate metabolism in rat brain (iii) Protein deficiency and regional chemistry of brain. Part III: Effects of protein deficiency on <i>in vivo</i> oxygen uptake by slices and homogenates of different regions in rat brain	Indian Jorunal of Biochem. Biophy. 8, 295 (1971). Indian Jorunal of Biochem. 8, 300 (1971). Indian Journal of Biochem. Biophys. 8, 305 (1971).
(3)	Rajalakshmi R. and Ramakrishnan C. V.	Nutrition and brain function	World Rev. of Nutr. Dietet., 15, 1 (1972).
(4)	Ramakrishnan C. V.	(i) Citric acid metabolism in the fruit tissues of citrus acids (ii) Possible use of Gama radiation in waste water treatment	Current Science, 40, 97 (1971). Journal Science Ind. Research, 30, 228 (1971).
(5)	Ramakrishnan C. V., Parekh L. J. and Sakariah K. K.	Studies on fruit tissues of citrus acids. Part I: Utilization of protein for the respiration in mature fruit tissues of citrus acids	Enzymologia. 41, 40-46 (1971).
(6)	Parekh L. J. and Sakariah K. K.	Studies on fruit tissues of citrus acidia. Part II: Studies on some of the enzyme of aminoacid metabolism in citrus fruit tissues	Citrus acidia Enzymologia, 41, 47-52 (1971).

Sr.No.	Author	Title	Journal
(7)	Parekh L. J. and Shah V. J.	Studies on carbohydrate metabolism in fruit tissues of citrus acids. Part IV: Studies on glycolysis and ascorbic acid metabolism in different parts of the fruits of citrus acida and changes in the same during maturation	Enzymologia, 41, 1-8 (1971).
(8)	Srivastava S. K., Dholakia D. M. and Naik B. I.	Effect of fructose on citrulline estimation by Archibald Method	Indian Journal Biochem. Biophys., 8, 117 (1971).
(9)	Nadkarni S. R.	(i) Studies on bacterial lipase, Nutritional requirements of Pseudomonas Aeruginosa for production of lipase (ii) Studies on bacterial lipase, Part II: Study of the characteristics of partially purified lipase from pseudomonas aeruginosa	Enzymologia, 40, 286 (1971). Enzymologia, 40, 302 (1971).
(10)	Amin P. M. and Ganapati S. V.	Studies on biochemical changes taking place in the first stage of operation of an "oxidation pond"	Journal Water Pool. Control Fedor, U.S.A., 44, 183-200 (1972).
(11)	Ganapati S. V.	Development of the activated sludge process during the last fifty years	Ind. Research, New Delhi, 30, 192 (1971).
(12)	Bhatt R. P., Bedi S. J. and Sabnis S. D.	Botanical exploration of the Gora range of the Rajpipla forests, Gujarat State	Indian Forester 97 (8) 477-481, August, 1971.
(13)	Sabnis S. D. and Bedi S. J.	(i) <i>Ceropegia adorata</i> Hook f. (Asclepiadaceae)—A little known plant of Western India (ii) The genus <i>Fuirena</i> (Cuperaceae)	New Bulletin 25 (1) 57-60, 1971. Journal Bom. Nat. Hist. Soc. 68 (3) 857-858, December, 1971.

Sr.No.	Author	Title	Journal
(14)	Bhatt R. P.	Notes on <i>Spergula fallax</i> (Lowe) Krause and <i>S. vernalis</i> Willd	Jour. Bom. Nat. Hist. Soc. 68 (2) 492-94, August, 1971.
(15)	Kamath B. R., Bhat, C. V., Vyas A. H., Shah R. S., Kanhere S. S., and Bafna S. L.	Ion exchange resin on cinchona alkaloids IV	Jour. of Pharm. Science, 1971, 60 (2), 319.
(16)	Patel D. C. and Bhattacharya P. K.	(i) A study of Ligand exchange in some Nickel Complexes (ii) Studies in hetero chelates of Ni (II) and Cu (II)	Jour. Inorg. and Nuclear, Chemistry, 1971, 33, 529. Ind. Jour. of Chemists 1971, 9, (12), 1414.
(17)	Chidambaram M. V. and Bhattacharya P. K.	Studies in some amine-amino-acids mixed ligand chelates Pt. III	Ind. Jour. of Chem. 1971, 9 (11), 1294.
(18)	Sharma R. C. and Bhatt- acharya P. K.	Studies in some hetero-cyclic amine complexes	Jour. Ind. Chem. Soc. 1971, 48, 58.
(19)	Patel D. C., Sharma R. C. and Bhatt- acharya P. K.	Studies in some Ni (II) complexes	Jour. Ind. Chem. Soc. 1971, 48, 233.
(20)	Shaikh Y. A. and Trivedi K. N.	Studies in 3-hydroxy-coumarins Pt.-II. Synthesis of 3-hydroxypyron (3, 2-c) benzopyranes	Jour. Ind. Chem. Soc. 1971, 48, 237.
(21)	Dholakia V. N. and Trivedi K. N.	(i) Studies in 4-hydroxy-coumarins Pt. III. Y-pyrone from 4-hydroxycoumarins (ii) Studies in the synthesis of coumarino-pyrones and Furocoumarins Pt. IX: Synthesis of 2-methyl-4-oxo-4H-Furo (3, 2-c) benzopyranes	Jour. Ind. Chem. Soc., 1971, 48, 251. Jour. Ind. Chem. Soc., 1971, 48, 344.

Sr.No.	Author	Title	Journal
		(iii) Studies in the synthesis of coumarino-pyrones and Furocoumarins Pt. X: Synthesis of 3-phenyl-4-oxo-furo (3, 2-c)	Jour. Ind. Chem. Soc., 1971, 48, 348.
		(iv) Studies in the synthesis of coumarino-pyrones and Furocoumarins Pt. XI: Synthesis of Benzofuro (3, 2-c) benzopyranes	Jour. Ind. Chem. Soc., 1971, 48, 351.
(22)	Pardanani N. H. and Trivedi K. N.	Studies in the Synthesis of coumarino-pyrones and Furo-coumarins Pt. VIII: Synthesis of alkyl psoralenes and alkyl isopsoralenes	Jour. Ind. Chem. Soc., 1971, 48, 339.
(23)	Chudgar R. J. and Trivedi K. N.	Studies in the synthesis of quinoline derivatives Pt. IV	Jour. Ind. Chem. Soc., 1971, 48, 739.
(24)	Shah D. O. and Trivedi K. N.	Synthesis of P-1-naphthylamine and B-9-phenanthrylamine	Current Science, 1971, 40, 350
(25)	Balani R. A. and Suresh Sethna	(i) Chloromethylation and other studies on some benzophenone derivatives (ii) Some further studies on hydroxybenzophenones	Jour. Ind. Chem. Soc., 1971, 48, 411. Jour. Ind. Chem. Soc., 1971, 48, 417.
(26)	Mani N. V. and Suresh Sethna	Studies in Isoflavones Pt. III. Nitration of 7, 8-and 6, 7-dihydroxyisoflavones and their methyl-esters	Jour. Inst. of Chemists, 1971. 43, 234.
(27)	Chudgar R. J. and Trivedi K. N.	Studies in the synthesis of quionoline derivatives Pt. V. Synthesis of 1, 2-bis (2-chloro-4-quinolyl)	Jour Ind. Chem. Soc., 1971, 48, 1061.
(28)	Shaikh Y. A. and Trivedi K. N.	(i) Studies in the synthesis of coumarino-pyrones and furocoumarins Pt. XII: Synthesis of 4-hydroxy-2-oxo-2n-Furo (2, 3-c) benzopyrane	Jour. Ind. Chem. Soc., 1971, 48, 1041.

Sr.No.	Author	Title	Journal
		(ii) Studies in the synthesis of coumarino-pyrones and furocoumarins. Pt. XIII. Synthesis of 4-hydroxy-pyrano benzopyrans derivatives	Jour. Ind. Chem. Soc., 1971, 48, 1161.
(29)	Chudgar R. J. and Trivedi K. N.	(i) Studies in the synthesis of quinoline derivatives Pt. VI: Synthesis of Pyrano-quinolines and quinolinolacetones	Jour. Ind. Chem. Soc., 1972, 49, 41.
		(ii) Synthesis of 2, 2-dicarboxy-1, 3-bis (2-chloro-4-quinolyl) propane derivatives	Current Science, 1972, 41, 141.
(30)	Dave J. S., George Kurian, Prajapati A. P. and Vora R. A.	Mesomorphic behaviour of Schiff's base compounds-I, N: N'-di (4-n-alkoxy-1-naphthylidene)-benzidine	Mol. Cryst. Liq. Cryst. 1971, 14, 303.
(31)	Dave J. S. and Vora R. A.	Mesomorphic behaviour of cholesteryl esters II. Trans-p-n-alkoxycinnamates of cholesterol	Mol. Cryst. Liq. Cryst., 1971, 14, 319.
(32)	Smt. V. A. Janaki	The Agony of Bangla Desh	Faculty of Science Magazine No. 19, 1971-72 (February, 1972).
(33)	Gupta C. M.	क्या भूगोल भी महत्वपूर्ण विषय है ?	Faculty of Science Magazine No. 19, 1971-72 (February, 1972).
(34)	Vashi N. M. and Merh S. S.	Some structural aspects of the Almora nappe symform in Central Kumaon Himalaya	Indian Science Congress, 1972.
(35)	Munshi S. K., Misra K. S. and Merh S. S.	A note on the structure of the Krol nappe rocks of Someshwar Dwarahat region in Almora Distt. U.P.	Indian Science Congress, 1972.

Sr.No.	Author	Title	Journal
(36)	Patel P. P., Desai S. J. and Merh S. S.	Tectonic setting of Erinpura Granite in Bhatan Kapashia area of S. W. Rajasthan and N. Gujarat	Indian Science Congress, 1972.
(37)	Vashi N. M. and Laghate S. A.	Structural and Metamorphic studies of rocks to the west of Peora in Kumaon Himalaya	Wadia Institute of Himalayan Geology, 1972.
(38)	Gadekar D. R.	A new approach to the Geosynclinal nomenclature of the Cambay basin	Indian Science Congress, 1972.
(39)	Shringarpure D. M.	Are we encountering an Ice-age in the near future ?	Science Faculty Magazine, 1971-72, page 14-18.
(40)	Modi V. V. and Raina J. L.	Further studies on genetic transformation in <i>Rhizobium</i>	J. Gen. Microbiol. 65, 161, 1971.
(41)	Chhatpar H. S., Mattoo A. K. and Modi V. V.	Biochemical Studies on chilling injury in mangoes	Phytochemistry, 10, 1007, 1971.
(42)	Kacchy A. N., Modi V. V. and Patel I. B.	Alanine and Lysine synthesis by <i>U. maydis</i>	Folia Microbiologica, 16, 326, 1971.
(43)	Patel D. C., Modi V. V. and Raina J. L.	Metabolic fate of B-OH butyrate in <i>Rhizobial</i> species	Proc. of B.A.R.C. symposium on cellular differentiation. 129-142, 1972.
(44)	Joshi R. V. and Joshi T. R.	(i) Thermoluminescence of quenched NaCl:Tl (ii) Thermoluminescence of NaCl:Tl at 500° K.	Japanese Journal of Applied Physics Vol., 1971. J. Physics C/Solid State Physics, 1971.
(45)	Abraham K. C. and Patel M. M.	Fine Structure analysis of the C system (2600-2700Å) of the SbF molecule	J. Phys. B: Atom Molec. Phys. 1-5, 1971.
(46)	Shah R. V., Asnani M. V. and Bonny Pilo	A possible function of lymphocytes in the formation of protective covering encasing parasites or damaged part in the liver	J. Anim. Morphol. Physio. 18:1, pp. 44-47, June, 1971.

Sr.	Author	Title	Journal
(47)	Shah R. V. and Chakko T. V.	Histochemical localization of cholinesterase in the normal and regenerating tail of the house lizard, <i>Hemidactylus flaviviridis</i>	J. Anim. Morphol. Physiol., 18:2, pp. 158-163, December, 1971.
(48)	Asnani M. V., Bonny Pilo and Shah R. V.	Preliminary observations on the appearance of lymphocytotoxic nodules in the liver and caecae of developing pigeons	J. Anim. Morphol. Physiol. 18:2, pp. 188-194, December, 1971.
(49)	Shah R. V., Hiradhar P. K. and Magon D. K.	Ascorbic acid in the normal and regenerating tail of the house lizard, <i>Hemidactylus flaviviridis</i>	J. Embryol. Exp. Morphol., 26:2, pp. 285-293, 1971.

(ii) Books: NIL

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

Sr.	Name	Seminar/Conference	Title
(1)	Dr. A. R. Mehta	International Seminar on "Physiology of Differentiation in Plants." at Simla, 17-20 May, 1971	Growth and Biochemical Differentiation in callus and suspension cultures.
(2)	Dr. A. R. Mehta and S. N. Vajranabhaiah	The International Symposium on "Morphogenesis in plant cell, tissue and organ cultures" at Delhi, November 17-23, 1971	Studies on Growth in Suspension cultures of <i>Cucumis</i> and <i>Datura</i> ; Hormonal effect on Growth and Nucleic acids".
(2)	Dr. V. P. Fadia and Dr. A. R. Mehta	The International Symposium on "Morphogenesis in plant cell, tissue and organ cultures" at Delhi, November 17-23, 1971	Hormonal Regulation of Tracheal Differentiation in <i>Cucumis</i> tissues cultured in vitro.
(4)	Dr. G. Prathapasenan and Dr. C. H. Pathak	Joint meeting of the Society of Biological Chemistry (India) Biochemical Soc., (U.K.) at Bangalore, December 2-7, 1971	Metabolic changes during germination of cotton and sorghum and the role of GA_3 Localization of

Sr.	Name	Seminar/Conference	Topic
			isocitrate lyase in germinating seeds of cotton.
(5)	Dr. S. L. Bafna	Ion-exchange Symposium held at Bombay	Molecular sorption on ion-exchange Resins.
(6)	Dr. V. M. Shah	8th Annual Conference of the Gujarat Ganit Mandal, held at Bombay on 25-10-1971	Problems in Fourier Series.
(7)	Dr. J. L. Raina	AMI 12th Annual Congress of Microbiologists, Varanasi, 22-24 October, 1971	Mutational loss of—OH butyrate dehydrogenase and impaired metabolic activity in <i>Rhizobium japonicum</i> .
(8)	Kumari D. C. Patel	Conference on cellular process in growth, development and differentiation, BARC. Trombay, 22-24 November, 1971	Metabolic fate of—OH butyrate in <i>Rhizobial</i> species.
(9)	Professor S. W. Dharmadhikari	Seminar on "Advanced Theory of Probability and Statistics" held at Karnatak University, Dharwar from 15-10-1971 to 17-10-1971	Functions of finite Markov Chains.
(10)	Shri D. K. Shah	Baroda Branch of the W.I.R.C. of I.C.A. India	Statistics in Business and Commerce.
(d) Lectures, Talks given at different Universities:			
(1)	Professor C. H. Pathak	Sardar Patel University, Vallabh Vidyanagar	Darwinism.
(2)	Dr. A. R. Mehta	Sardar Patel University, Botanical Society, Vallabh Vidyanagar	Rhythm in Plants.
(3)	Dr. S. D. Sabnis	Saurashtra University, Amreli	Taxodermis and biological preservation.
(4)	Dr. R. P. Bhatt	Saurashtra University	Preservation of Botanical material for Museum, Class work and Research purposes.

Sr.	Name	Seminar/Conference	Topic
(5)	Professor S. M. Sethna	(i) Gujarat University, Nadiad (ii) P. P. Science Institute, Bhavnagar (iii) Summer School for teachers organised by the Faculty of Education and Psychology, Baroda (iv) South Gujarat University, Surat	રસાયણ અને યુદ્ધ 1. Some aspects of Scientific progress. 2. Chemistry and War. Scientific methods. Some studies in Coumarins.
(6)	Dr. S. L. Bafna	Holkar Science College, Indore	Polymers and Ion-exchange.
(7)	Dr. P. K. Bhattacharya	Vikram University, Ujjain	Coordination Chemistry.
(8)	Professor S. S. Merh	Karnatak University, Dharwar	Some aspects of rock folding.

(e) *Participation in In-Service Programme:*

(i) *As a Participant:*

Dr. V. P. Fadia and Sarvashri K. V. Subbaiah, S. J. Chokshi, P. H. Bhatt and Smt. M. K. Kshirsagar attended and participated in the International Seminar on "Physiology of Differentiation in Plants", organised by the Indian Society for Plant Physiology, at Simla from 17th to 20th May, 1971.

(ii) *As Seminar/Workshop Director:*

Shri C. C. Shah was the Director of In-Service Training Programme for School Teachers.

(f) *Research:*

(i) *Research work completed:*

- (1) Dr. A. R. Mehta completed the work on Studies on Nucleic acids and phosphorus fractions associated with the growth of Tissues in sterile culture.
- (2) Study of Slow electron by Strongly polar Molecules by Dr. H. S. Desai.

(ii) *Research work in progress:*

- (1) Studies on the use of Gamma rays for purification of sewage and studies on high protein biscuits by Professor C. V. Ramakrishnan.
- (2) Studies on Nutrition and Brain Function as well as Studies on Ageing by Dr. (Smt.) R. Rajalakshmi.
- (3) Amino acid metabolism in plant tumour tissues by Dr. S. K. Srivastava.
- (4) Biochemical studies on citrus vesicle callus tissues cultivated *in vitro* by Dr. L. J. Parekh.
- (5) Studies on fruit tissues of *Citrus acida* by Dr. K. K. Sakariah.
- (6) Studies on human nutrition by Dr. Suresh Sail.
- (7) Initiation of tissues from free cells of plants by Dr. A. R. Mehta.
- (8) Isolation of protoplasts from plants cells by Dr. A. R. Mehta.
- (9) Induction of haploid plants from anther cultures by Dr. A. R. Mehta.
- (10) Work on the Effect of GA₃ on Germination and growth of cotton by Dr. C. H. Pathak.
- (11) Study of lower bound of electron for dipole field by partitioning technique by Dr. H. S. Desai.

5. *Activities of newly established and special type of Centres/Units*

(1) *Statistical Service Unit:*

The Statistical Service Unit continued to help several post-graduate students and research workers of various departments of the University by way of giving them statistical advice.

The total income made by the Statistical Service Unit during 1971-72 was Rs. 6,206.

(2) *Demographic Research Centre:*

The Centre undertook 15 research projects and published or mimeographed 10 research papers. Some of the important projects undertaken were (i) Evaluation of 1971 Census, (ii) Demographic Impact of Family Planning, (iii) Secondary Sterility and its distribution, (iv) Fitting of a curve for the age distribution of sterilised spouses, (v) Multivariable approach to study certain factors influencing the decision-making age of adoption of sterilization, (vi) After effects of sterilization, (vii) A study of age specific fertility rates in Baroda City, (viii) Population Growth in the sixties, (ix) Factors related to knowledge, family size preference and practice of family planning in India, (x) A study of Age at Menarche among the college entrants, (xi) A study of Maternal Mortality by age and parity, and (xii) Mass vasectomy camp study in Baroda District.

Other important activities of the Centre were: (i) Teaching of one optional paper in Demography in the M.Sc. (Final) Statistics and to the Post-graduate

students of the department of Social and Preventive Medicine, Medical College, Baroda and (ii) Participation in five Seminars and/or Conferences.

6. Faculty Students' Association

Five members of the Executive Committee were deputed to attend the Convention of the Federation of Gujarat Youth Council held at Ahmedabad on 2nd and 3rd October, 1971. The Annual meet was cancelled and a sum of Rs. 2,000 was donated towards the National Defence Fund over and above Rs. 650 collected from students. 70 students also donated blood. Annual sports and games were held as usual. A one-act play 'Bangla Desh' was staged at the Variety Entertainment Programmes of the Union in aid of the National Defence Fund.

7. Museum Laboratory, Studios, Workshops

The museums in the Botany, Geography, Geology and Zoology Departments were enriched by addition of specimens and other articles; considerable progress has been made in the work of preparing a suitable herbarium in the Botany Department.

Substantial additions of scientific apparatus and equipment were made during the year to the laboratories of the Faculty. The following table gives the cost of equipment in the different laboratories added during the year 1970-71 and the total cost as on 31-3-1972.

Laboratory	Cost of equip- ment as on 1-4-1971	Cost of equip- ment written off during the year	Cost of equip- ment etc. added during the year	Cost of equip- ment as on 31-3-1972
	Rs.	Rs.	Rs.	Rs.
Biochemistry	6,46,569	—	6,000	6,52,569
Botany	4,54,088	—	11,115	4,65,203
Chemistry	6,55,143	—	14,447	6,69,590
Geography	2,38,104	—	4,241	2,42,345
Geology	5,46,383	—	19,336	5,65,719
Microbiology	3,59,400	—	14,600	3,74,000
Physics	7,53,283	—	21,181	7,74,464
Workshop	67,830	—	518	68,348
Statistics	1,31,960	—	5,326	1,37,286
Zoology	4,29,397	3,816	49,377	4,74,958
Total	42,82,157	3,816	1,46,141	44,24,482

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

Name	Date of Visit
9. Visitors	
(1) Dr. G. G. Henshaw of the Department of Botany, University of Birmingham, England	1-11-1971 to 3-11-1971
(2) Dr. D. B. Johnson of the USDA, Forest Service	22-11-1971
(3) Dr. I. Baker, Asstt. Representative of the British Council of W. and C., India	17-1-1972
(4) Professor Josef Jaros of the Department of Geology, Charles University, Prague, Czechoslovakia	17-2-1972 to 20-2-1972

10. Important Events

(1) The In-Service Training Programme in Mathematics for School Teachers was organised by the Department of Mathematics during the year. The programme was sponsored by the N.C.S.E., New Delhi.

(2) A training course for in service personnel of some of the industries was organised in the Statistics Department. The duration of the course was about 6 weeks and the topics covered were Statistical Quality Control and Operations Research.

(3) The Statistics Department was entrusted the job of analysing the large volume of the data by the Gujarat State Fertilizers Company, Baroda. More than twenty five-students and some of the staff members carried out this work. The total earning was about Rs. 9,000 which was distributed amongst the students and staff members concerned.

CHAPTER X(A)—FACULTY OF EDUCATION AND PSYCHOLOGY

1. New Experiments

A Summer Institute in Research Methodology in Education was organised for college teachers from all over India. There were 40 participants. The six week programme was sponsored by the University Grants Commission.

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 Diplomas	(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 Education	11	22	33
(ii) Diploma in Early Childhood Education	—	20	20
Total	11	42	53
(b) Degrees:			
(i) B.Ed.	79	96	175
(ii) S.Y.B.A. (Psy.)	8	47	55
(iii) T.Y.B.A. (Psy.)	9	55	64
Total	96	198	294
(c) Post-graduate Degrees:			
(i) M.Ed. (Full time)	5	8	13
(ii) Jr. M.Ed. (Part-time)	28	3	31
(iii) Sr. M.Ed. (Part-time)	22	5	27
(iv) Jr. M.A. (Psy.)	2	7	9
(v) Sr. M.A. (Psy.)	2	9	11
Total	59	32	91

(d) Ph.D.:

(i) Education	4	6	10
(ii) Psychology	2	1	3

Total	6	7	13
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Grand Total	172	279	451
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4. Staff

(a) Present Position:

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

(b) New Appointment:

Dr. (Miss) M. Gon as Reader in Psychology.

(c) Teacher promoted or upgraded:

Dr. I. D. Bhatt, Assistant Lecturer was promoted and appointed as Lecturer in Psychology.

5. Professional Growth of the Staff

(A) Publication of books, monographs, etc.:

Author	Title	Where published
(1) Prof. D. M. Desai	(i) अ'ग्रेल भाषाना स्त्रक्यशेनु' शिक्षणु (द्वितीय सं'वर्धित आवृत्ति)	A. R. Sheth & Co., Ahmedabad, July 1971.
	(ii) गुजरातीना शिक्षणुमां नवीन दृष्टि	A. R. Sheth & Co., Ahmedabad, August 1971.
	(iii) भारतीय शिक्षणुना वर्तमान प्रश्नो तृतीय सं'वर्धित आवृत्ति	A. R. Sheth & Co., Ahmedabad, January 1972.
	(iv) Factors affecting Women's Access to Education	Department of Educational Administration, Faculty of Education and Psychology, March 1972.
(2) Prof. M. B. Buch	A Survey of Research in Educational Psychology	Research in Psychology, ICSSR Publication.

Author	Title	Where published
(3) Prof. M. B. Buch and M. R. Santhanam	Communication in Classroom	Centre of Advanced Study in Education, Baroda, 1970.
(4) Prof. M. B. Buch and others	Handbook of Programmed Learning	IAPL, 1972.
(5) Dr. B. P. Lulla	Need for Operational Programme of Population Education in our Schools	M. S. University of Baroda, 1971.
(6) Dr. B. P. Lulla and Dr. S. K. Murthy	Essential Problems of Indian Education	Laxmi Narayan Agarwal Publication, Agra, 1971.
(7) Shri D. R. Darji Jt. Editor, (With Dr. D. B. Desai and Others)	समाज विद्यातुं शिक्षणु विविध पद्धतिभिं	आलगाविंद प्रकाशन, १९७२

(B) *Publication of Articles or Papers:*

(1) Prof. D. M. Desai	(i) Optional Questions in the Secondary School Board's Examinations (ii) Let us Change the School System	Naya Shikshak, Rajasthan, April-June, 1971. Nootan Shikshan, Baroda, August, 1971.
(2) Prof. M. B. Buch	Introducing Some Select Literature on Classroom Interaction Analysis	Education and Psychology Review, Vol. X, No. 4, October, 1970.
(3) Prof. A. S. Patel	Social Change and its Consequent Problems of Psychological Concern	M. S. University Journal, Baroda, Vol. XIX, No. 2, July 1971.
(4) Prof. A. S. Patel and Shri K. Ramchandran	Creativity—Its Meaning and Measurement	Education and Psychology Review, Baroda, Vol. XI, No. 2 and 3, 1971.
(5) Prof. M. A. Quraishi	Maulana Muhammad b. Tahir Pattani	Journal of the Oriental Institute, March, 1972.

Author	Title	Where published
(6) Dr. B. P. Lulla	(i) Issues in Education for Population Control (ii) Operational Programme of Population Education in Schools	Journal of Family Welfare, Vol. XVIII, No. 1, September 1971. N.I.E. Journal, Vol. VII, No. 2, September 1971.
(7) Dr. J. J. Mody	Mechanism of Language	Education and Psychology Review, July 1971.
(8) Dr. (Miss) M. Gon	Educational Psychology; Concept of Development during Primary School Stage with particular reference to Cognitive and Social Development	N.C.E.R.T., May, 1971.

(C) *Papers presented at Conferences, etc.:*

(1) Prof. D. M. Desai	(i) Manpower Planning in Teacher Education (ii) Changing Concepts in Educational Administration (iii) Human Relationship and Educational Administration (iv) Good Ideas flow from Bottom (v) Some Absurdities in Practices in Teacher Training (vi) A Plan for Comprehensive College of Teacher Education	All India Conference of Teacher Educators, Allahabad, October 1971. Seminar of Principals of College of Education of Gujarat State, Ahmedabad, May 1971. Seminar on Current Problems of Indian Education, N.C.E.R.T., Udaipur, May 1971. Seminar on Current Problems of Indian Education, N.C.E.R.T., Udaipur, May 1971. Seminar on Current Problems of Indian Education, N.C.E.R.T., Udaipur, May 1971. State Board of Teacher Education, January, 1972.
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Author	Title	Where published
	(vii) (a) Education and Social and National Integration	Saurashtra University Extra-Mural Lectures, Teachers College, Aliabada, February 26 and 27, 1972.
	(b) Education and Social Reconstruction	Saurashtra University Extra-Mural Lectures, Teachers College, Aliabada, February 26 and 27, 1972.
(2) Prof. M. B. Buch	(i) Tools of Research	Gujarat Vidyapeeth, Ahmedabad.
	(ii) Problems of Educational Research in India	Saurashtra University, Bhavnagar.
	(iii) Research in the Cognitive Domain of Teaching—Some Preliminary Thoughts	Third National Seminar on Research in Teaching, CASE, Baroda.
(3) Prof. A. S. Patel	(i) Research Process Attitude Scaling	All India Seminar on Research Methodology held at CASE, Baroda, May, 1971.
	(ii) Problems of Psychology in Developing Countries	XVIIth International Congress of Applied Psychology, Liege (Belgium), July, 1971.
	(iii) Experimentation and Experimental Designs in Social Research	All India Seminar on Research Methodology held at School of Social Sciences, Ahmedabad, November, 1971.
	(iv) An experimental study of propaganda effect with respect to views on communal unity	Indian Science Congress, Calcutta, February, 1972.
	(v) Characteristics desirable for mate selection as perceived by college students and parents	Indian Science Congress, Calcutta, February, 1972.

Author	Title	Where published
	(vi) Phenomenological Approach in Experimental Psychology	Indian Science Congress, Calcutta, February, 1972.
	(vii) Some critical issues in test construction procedures in Education and Psychology	Indian Science Congress, Calcutta, February, 1972.
(4) Dr. B. P. Lulla	Role of Universities in Population Education	Seminar organised by Population Council of India (New Delhi) at Ahmedabad, October, 1971.
	(D) Participation in In-service and other Programmes:	
(1) Prof. D. M. Desai	(i) Summer Institute in Research Methodology in Education (Director)	Faculty of Education and Psychology, May-June, 1971.
	(ii) Institutional Planning	Faculty of Education and Psychology, May-June, 1971.
(2) Prof. M. B. Buch	Summer Institute in Research Methodology in Education	Faculty of Education and Psychology, Baroda, 1971.
(3) Dr. B. P. Lulla	(i) Seminar on Population Education	Population Council of India, at Ahmedabad, October, 1971.
	(ii) Workshop in Population Education	N.C.E.R.T. at Dehradun, 1972.
(4) Shri B. R. Panchal	(i) Seminar for New Syllabus in Science	State Institute of Education, Ahmedabad, 1971.
	(ii) Summer Institute in Research Methodology in Education	CASE, 1971.
(5) Shri D. R. Darji	(i) Educational Technology and classroom Interaction	CASE, 1972. January,
	(ii) Research in Teaching	CASE, 1972. January,

(E) Research:

<i>Name of the Teacher</i>	<i>Subject of Research</i>
	<i>Completed</i>
(1) Prof. D. M. Desai	A Perspective Plan for Girls' Secondary Education in Gujarat.
	<i>Underway</i>
	Social Background of Student-Teachers in Gujarat.
	<i>Completed</i>
(2) Prof. M. B. Buch	(i) Factors Affecting Diffusion of Innovation in Secondary Schools.
	(ii) A Study of the Pattern of Teacher Influence in Some Selected Schools.
	(iii) An Inquiry into Condition Promoting Adaptability in Indian Schools.
	(iv) A Study of Innovation in Secondary Schools of Gujarat.
	<i>Underway</i>
	(i) An Investigation into the Effects of Teachers' Classroom Behaviour on Pupils' Achievement.
	(ii) Personality, Attitudes and Classroom Behaviour of Teachers.
	(iii) Compiling, Classifying and Abstracting Educational Research in India.

6. Centre of Advanced Study in Education*Research Activities:*

The Centre recognised the following major areas for intensive studies and sustained research work during the year 1971-72:

- (1) Teaching and Teacher Behaviour
- (2) Teaching Education
- (3) Educational Technology and Programmed Instruction
- (4) Organizational Behaviour
- (5) Educational Change Process.

The research programmes in the areas cited above have been designed and decided in view of the fact that the studies in these areas will lead to improvement in teacher behaviour and instruction in the classroom on the one hand and effective utilisation of material and human resources available in the benefit of the learner on the other hand. With this end in view a series of inter-connected research projects have been initiated during the year 1971-72. These projects include:

(A) Projects completed:

- (1) A study of the pattern of teacher classroom behaviour in Indian schools.
- (2) Inquiry into the variables affecting teacher behaviour.
- (3) Teacher-behaviour and pupil's achievement.
- (4) Teacher-behaviour and pupil's attitudes.
- (5) Modifying teacher behaviour through feedback from different sources.
- (6) A study into relationship between different patterns of teacher classroom behaviour and pupil achievement in relation to various instructional objectives.
- (7) Effectiveness of different modes in programmed learning—An Exploration.
- (8) A study of relative effectiveness of different forms of programmed learning material.
- (9) A study of factors affecting adaptability of schools.
- (10) A study of factors affecting adoption of innovations by teachers.
- (11) A study of I.O.S.'s expectations and principal's perception of principal's job in Rajasthan State.
- (12) A comparative study of organisational climate of secondary schools of Gujarat and Rajasthan States.

B. Projects in progress:

- (1) A study of teachers explanation applied with different types of questions and their effect on pupil's comprehension.
- (2) Evaluation of teacher education programmes in some of the universities.
- (3) Improving student teaching programme using interaction analysis approach.
- (4) An inquiry into the educational innovations in Rajasthan.
- (5) A study of characteristics of innovative schools.
- (6) An investigation into organisational climate of secondary schools in Rajasthan.

In addition, a new project to develop programmed material on some important units of elementary Mathematics has been taken during this year. The first draft of the programmes on twelve different units has been prepared.

Secondly, a study of innovations, their spread and other aspects of diffusion on innovations was undertaken in Gujarat State. The analysis of data is over. The report is in the last stage of finalization.

Other Major Projects:

(1) The U.G.C. has entrusted to the CASE a project "Preparation and Publication of Abstracts of Ph.D. Theses in Education in India".

(2) The Indian Council of Social Science Research entrusted preparation of abstracts of research work published in the area of Educational Psychology by the Indian researchers in Indian Journals to the Head of the CASE. The report has been submitted.

(3) National Institute of Bank Management has entrusted a research project on "Developing a Test of Social Intelligence for Bank Employees" to the Head of the CASE. The project is in progress.

Publications—1971-72:

<i>Author</i>	<i>Title</i>	<i>Journal in which published</i>
(1) Buch M. B. and Santhanam M. R.	(i) The Relative Effects of English and Science on Classroom Communication Phenomena	Education and Psychology Review, Vol. X, No. 4, October, 1970.
	(ii) Sex of the Teacher as a Factor of Teacher Classroom Behaviour	Indian Educational Review, Vol. 6, No. 2, July, 1971.
	(iii) Teacher Institution—Response Nexus in Difference Subject-Matter Areas	Indian Educational Review, Vol. 7, No. 1, January, 1972.
(2) Buch M. B.	(i) Survey of Research in Educational Psychology	Research in Psychology, Indian Council of Social Science Research, 1971.
	(ii) Handbook of Programmed Learning	Indian Association of Programmed Learning, 1972.
	(iii) Research in the Cognitive Domain of Teaching—Some Preliminary Thoughts	The Third National Seminar on Research Teaching (Memographed) CASE, M. S. University, 1972.
(3) Lulla B. P.	Operational Implication for Promoting Population Education	NIE Journal, March, 1972

<i>Author</i>	<i>Title</i>	<i>Journal in which published</i>
(4) Santhanam M. R.	(i) Sex of the Teacher as a Factor of Teaching Mathematics	The Mathematics Education, Vol. V, No. 4, December, 1971.
	(ii) Beyond the Frontiers of the Classroom	Educational India, March, 1972.
	(iii) Sex Differences Across Some Behavioural Dimensions of Teachers in Teaching of Mathematics	The Mathematics Education, March, 1972.
	(iv) Some Preliminary Thoughts on Classroom Interaction Analysis	Nayashikshak, October-December, 1971.
(5) Sharma M. L.	(i) Organizational Climate; An Overview	Indian Education Review, Vol. 6, No. 2, July, 1971.
	(ii) Organizational Climate of Schools—A Comparative Study	Nayashikshak, January, 1972.
	(iii) Teacher's Morale—Its Measurement	QUEST, January, 1972
	(iv) Educating the Managers of Educational Enterprise	NIE Journal, January, 1972.
	(v) Performance Appraisal and Merit Pay	YOJANA, 24th October, 1971.
	(vi) Continuing Education—A New Perspective	The Educational Reporter, February, 1972.
(6) Sharma M. L. and Santhanam M. R.	Percolation of School Organisational Climate into the Classroom	Education and Psychological Review, October, 1971.
(7) Shah G. B.	Continuing Education in the Developing and the Developed Countries	NIE Journal, September, 1971.

7. The Department of Extension Services

Since the financial control of the Department was transferred to the Gujarat State Government by N.C.E.R.T., the department is now working under the direction of the State Board of Teacher Education, Ahmedabad.

The following major programmes were organised during the year:

(i) *Summer School of Education:*

A six-day Summer School of Education on 'Institutional Planning' was organised at Baroda from 6th to 11th May, 1971 wherein 33 Headmasters and Supervisors from different schools participated.

(ii) *Content Courses:*

(a) Content course in Physics from 6th to 15th May, 1971 was organised at Baroda. 17 participants participated.

(b) Content course in Mathematics and Science from 7th to 19th May, 1971 was organised at Baroda. 45 participants attended this course.

These programmes were organised under the Continuing Education Scheme of the M. S. University of Baroda.

(iii) *Workshops and Seminars:*

	<i>Date/s</i>	<i>Place</i>	<i>Topic</i>	<i>No. of Participants</i>
(1)	25-6-1971 to 27-6-1971	Baroda	New Mathematics	10
(2)	30-8-1971	Baroda	Institutional Planning	15
(3)	14-10-1971	Baroda	Seminar Reading	12
(4)	27-10-1971 to 29-10-1971	Baroda	S.S.C.C.C. Conference	27
(5)	18-11-1971	Baroda	Experimental Projects	29
(6)	11-12 Dec. 1971	Baroda	New Mathematics	15
(7)	29-31 Jan. 1972	Baroda	New Mathematics	59
(8)	13-15 Feb. 1972	Godhra Dohad	New Mathematics New Mathematics	33 34

(iv) *Experimental Projects:*

28 experimental projects were prepared and finalised and submitted to the N.C.E.R.T. for approval and grant.

(v) *Seminar Reading Programme:*

10 best essays were submitted at state level reading. Out of these 10 essays, 4 were selected for the National level contest.

The programme of Institutional Planning is taking shape now.

8. CASE Library

For the benefit of the post-graduate and doctoral students of the Faculty, separate post-graduate reference library is maintained in the CASE building. On an average 75 students and members of the staff visited the library every day. CASE has utilized Rs. 62,917-86 of non-recurring and Rs. 15,000 of recurring grant of the library.

An important feature of the CASE library is its collection of more than 400 micro-films and micro-fiches. A micro-fiche reader has been also set up in the Centre. Ph.D. scholars from different Indian Universities come to CASE library to make use of this rich source of reference material.

9. Publications

The Faculty continued to publish the Journal viz. Education and Psychology Review (Quarterly).

10. Visitors

	<i>Date</i>
(1) Dr. Srivastava A. B. L., Expert, Asian Institute of Educational Planning and Administration, N.C.E.R.T.	27-6-1971
(2) Professor L. J. Bhatt, Dean, Faculty of Education, Nigeria	2-9-1971
(3) Shri Rajendra Prasad, Field Adviser, N.C.E.R.T., New Delhi	3-9-1971
(4) Dr. Frances A. Mullen, Editor, The International Psychologist	4-10-1971

CHAPTER X (B)—UNIVERSITY EXPERIMENTAL SCHOOL

The University Experimental School is a laboratory school for the Faculty of Education and Psychology. It is a full fledged school having classes from Standards 1 to 11 and offers a wide field for experimentation and observation for the Faculties of Education and Psychology and Home Science.

1. Courses of Study

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

2. Number of Students

Class	Boys	Girls	Total
(1) Primary: I to VII	165	135	300
(2) Secondary: VIII to XI	104	88	192
Total	269	223	492

3. Staff

	Graduate Trained Teachers	Under-Graduate Trained Teachers	Others	Total
(1) Primary Section	5	3	—	8
(2) Secondary Section	6	—	—	6
(3) Specialized Teachers	3	2	—	5
(4) Office Staff	—	—	4	4
(5) Class IV Employees	—	—	7	7
Total	14	5	11	30

Sarvashri L. N. Panchal and D. S. Doshi joined the school as teachers. Shri M. M. Amin has been appointed as Officiating Principal during the absence of Shri M. M. Chokshi, on leave.

Kumari S. R. Patel resigned and left the school because of her ill-health.

4. Professional Growth of the Staff

(1) Principal M. M. Chokshi was selected by the UNESCO Committee to avail of a grant to go to Phillipines for higher studies.

(2) Shri K. N. Soni acted as one of the Co-ordinators for 'Inservice Programme in Science for Primary School Teachers'.

(3) Shri J. M. Khatri was deputed to attend the Refresher Course in Mathematics.

(4) Shri S. R. Patel was deputed to attend an All India Seminar on 'National Integration' at Jaipur. He also attended the 'UNESCO WEEK' at Hyderabad.

(5) Shri S. R. Patel and Kumari N. P. Desai (with a team of pupils) were sent to Delhi to attend the U.S.O. Conference.

5. School Library

	Number	Cost in Rs.
(1) Books as on 1-4-1971	7,000	21,000
(2) New Books added during the year	100	400
(3) Books written off during the year	100	700
(4) Books at the end of the year	7,000	20,700

Shri M. M. Amin, guardian of late Manish Amin (Std. VII) donated books to I to X class Library of each standard, as gift in the memory of his son.

6. School Laboratory

Item	Cost as on 31-3-1971	Written off during the year	Additions during the year	Cost as on 31-3-1972
	Rs.	Rs.	Rs.	Rs.
Equipment	13,953-58	785-95	230-73	13,398-36

7. Experiments and Activities

(1) Pupils of Standard VI prepared a magazine compiling their writings on different subjects.

(2) Pupils of Standard V, VI and VII prepared a magazine in the memory of late Dr. Vikram Sarabhai.

(3) Pupils of Standard I and II displayed an exhibition on the subject 'Plants of our Daily Food Grains'.

(4) Under the project of Inter-School Leaving, pupils of Standard VII to X visited the village Kashipura and gave an entertainment programme.

8. Results of Examinations

(1) Out of 42 students of the school, who appeared at the S.S.C. Examination held in March, 1971, 41 passed. The result was 97.6%.

(2) Pupils of the School appeared at the following external examinations:

Examination	Result in %
(i) Elementary Drawing Grade Examination	55.6%
(ii) Intermediate Drawing Grade Examination	60%
(iii) Shishta Vachan	100%
(iv) Sanskrit Examinations:	
(a) Balbodha	99.6%
(b) Prarambhika	100.0%
(c) Praveshika	100.0%
(v) Hindi Examination (Gujarat Vidyapeetha):	
(a) Pahali	100.0%
(b) Dusari	68.0%
(vi) Asvada Examination	100.0%
(vii) English Proficiency Test	89.0%

9. Awards and Prizes

(1) Awards in Sports:

In the Hari Om Mota Swimming Competition, six boys and girls won prizes. Fourteen pupils got prizes at the Inter-School Swimming Competition. Chi. Manoj Mehta of Standard IX secured the third rank in the Gujarat State Swimming Competition. Chi. Varah Vakil of Standard X got Mohanlal Dhobiwala Shield in the Swimming Competition. Four pupils of the school were selected at the State level for Basket Ball game. Chi. Isha Chavada got the first prize in 'Spear Throw' and 'Discus Throw' and second prize in 'Globe Throw' at the Gujarat State Olympic held at Rajpipla.

(2) Awards in Fine Arts:

Chi. Chetan Rana of Standard VIII got a prize in Shanker's International Art Competition. Chi. Vikram Patel got the first prize in the Light Music Competition. Chi. Panna Shah and Anita Banerji won the first and fifth prize respectively in Group Dance. 'Rutu Bahar' a group dance presented by the pupils of the School at the U.S.O. Conference held at Delhi was adjudged the best at the National level. Chi. Manisha Pathak of Standard VI got the Soviet Land Nehru Award in Painting. Chi. Dip Patel and Chi. Rahul Patel got prizes at the Art Exhibition of the Gujarat State. At the Drama Competition held by the All India Radio, the play 'Rajinama' presented by the pupils of the school was adjudged second.

(3) Awards at the Debates and Essay Competitions:

Chi. Rucha Joshi of Standard X won the second prize in the debate on 'India should make an atom bomb,' organised by the Lions Club. Chi. Asmita

Vyas, Chi. Archana Gandhi took part in the debates in Gujarati and Hindi languages organised by the Society for encouraging the art of public speaking and got first and second prizes respectively. Eight pupils got prizes in Art Competition and five in essay competition held on the Children's Day. Four students took part in the essay competition on the subject 'Banks and their Nationalization' organised by Punjab National Bank and Bank of Baroda.

(4) Awards at Examinations:

Chi. Rajesh Majmudar stood second in Baroda District at the Dusari Hindi examination of the Gujarat Vidyapeeth, Ahmedabad. Kumari Suvarna S. Warty stood third in the Baroda Centre at the S.S.C. Examination held in March, 1971. Sarvashri H. H. Patel and S. B. Ruparel and Kumari S. S. Warty, Kumari P. P. Hathi and Kumari M. B. Sinha got the National Merit Scholarships.

10. Other Important Events

(1) Bi-decade Celebration:

The school completed its 20 years bright academic career this year. During the Celebration, various programmes such as debates, art competition, talks on literature, music and art by eminent persons and a School Fair displaying paintings, wood work and sculpture by pupils, puppet show and cultural show were organised through 9th to 16th September, 1971. Professor C. N. Vakil, former Vice-Chancellor of the South Gujarat University was the Chief Guest at the inaugural function.

(2) Visitors:

- (i) Dr. Jyotindra M. Mehta, Former Vice-Chancellor, M. S. University of Baroda.
- (ii) Prop. C. N. Vakil, Former Vice-Chancellor, South Gujarat University, Surat.
- (iii) A group of Headmasters and Teachers of Pennsylvania District, U.S.A.
- (iv) A Cyclist couple from Holland on world tour.

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. 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.
- (2) M.Com. Accounting and Auditing, Banking, Cotton Industry, Co-operation, Public Finance, Advanced Statistics, Transport, Business Management.
- (3) B.Com. (i) Banking
(ii) Co-operation
- (4) Post-graduate Diplomas Co-operation
- (5) Under-graduate Diploma Co-operation

2 Number of Students

The classwise distribution of students during the year 1971-72 was as under :

Class	Men	Women	Total
(1) Diploma in Co-operation (Under-graduate)	9	1	10
(2) F.Y.B.Com.	685	166	851
(3) S.Y.B.Com.	671	160	831
(4) T.Y.B.Com.	545	67	612
(5) Junior M.Com.	54	11	65
(6) Senior M.Com.	29	6	35
(7) Post-graduate Diploma in Banking	30	8	38
(8) Post-graduate Diploma in Co-operation]	4	2	6
Total	2,027	421	2,448

3. Staff

(a) Present Position :

The staff of the Faculty consisted of 2 Professors, 7 Readers, 15 Lecturers, 5 Part-time Lecturers, 7 Class III and 12 Class IV employees as on 31st March, 1972. The Departments of English, Law, Mathematics, Statistics made arrangements for teaching of their respective subjects in the Faculty. Some members of the staff of this Faculty had teaching assignments in the Faculties of Technology and Engineering, of Law and of Home Science.

(b) New Appointments :

- (i) Dr. M. D. Sharma as Reader in Banking
(ii) Shri D. R. Shah as Lecturer in Economics
(c) Teachers upgraded.

Shri K. C. Mehta, Reader in Accounts was promoted to the post of Professor of Accounts.

4. Professional Growth of the Staff

(a) Published Articles :

Name of the staff member	Title	Name of the journal wherein published with month of publication
(1) Dr. S. Srikantiah	The Prospectus of Industrial Relations in India	M. S. University Journal, Social Science Number, July, 1970 (Published in 1972)
) 2) Shri D. J. Mehta	Non-financial Intermediaries and Monetary Management	M. S. University Journal, 1970 (Published in 1972)
(3) Shri C. S. Rathod	(i) Co-operative Credit Societies for Labourers	Indian Co-operative Review, July, 1971
	(ii) Urban Co-operative Banks of Gujarat	Journal of Gujarat Research Society, Bombay, July, 1971
(b) Published Book :		
(1) Shri C. S. Rathod	Government and Co-operation	Gujarat University, Ahmedabad.
(2) Dr. H. P. Chokshi	A study of Mobilisation of Resources for Village Panchayats in Baroda District (1951-65)	Planning Commission, Government of India, May-June, 1971.

5. Library

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

6. Faculty Union Activities

(1) Besides the Faculty Student's 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' Associations. The Associations arranged talks, debates and essay competitions.

(2) The Faculty organised blood donation programme on 27th September, 1971. The Faculty was awarded the rolling shield for the highest blood donation amongst all the Faculties of M. S. University of Baroda.

(3) On 23rd November, 1971, the Faculty organised on behalf of the Committee for Co-operative Training of the National Co-operative Union of India, New Delhi, Inter-Faculty Prize Debate on Co-operation. The subject of the debate was "In the opinion of this house, Co-operatives alone can protect the interest of Consumers in India." The Faculty team was declared as the best and was awarded the Scroll.

(4) The Faculty published Faculty magazine 'Comvox'.

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 :

<i>(1) Post-graduate Degrees :</i>	<i>Subjects</i>
(a) M.D.	Anaesthesia, Dermatology, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Pharmacology, Physiology, Preventive and Social Medicine, Radiology
(b) M.S.	Anatomy, E.N.T., Ophthalmology, Orthopaedic, and Surgery
(c) Ph.D.	Anatomy, Bacteriology, Bio-Chemistry, Parasitology, Pathology, Pharmacology and Physiology
(d) M.Sc.	Anatomy, Bacteriology, Bio-Chemistry, Microbiology, 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

(b) New Courses :

The following new courses were recommended for introduction :

- (1) Diploma in Public Health—D.P.H.
- (2) Diploma in Psychological Medicine—D.P.M.

2. Number of Students

(1) Degree :

M.B.B.S.	Men	Women	Total
1st year	129	16	145
2nd year	123	16	139
3rd year	112	12	124
4th year	95	10	105
5th year	118	27	145
Total	577	81	658

(2) Post-graduate Diploma:

	Men	Women	Total
D.A.	4	4	8
D.C.P.	1	1	2
D.G.O.	1	9	10
D.L. and O.	2	—	2
D.M.R.E.	1	—	1
D.O.	1	4	5
D.C.H.	2	2	4
T.D.D.	1	1	2
D.V.D.	1	1	2
Total	14	22	36

(3) Post-graduate Degrees:

	Men	Women	Total
M.D.	19	13	32
M.S.	16	1	17
M.Sc.	8	4	12
Ph.D.	2	—	2
Total	45	18	63
Grand Total	636	121	757

3. Staff

(a) Present Position:

The staff of the College consisted of a Dean, 15 Professors, 34 Assistant Professors, 39 Junior Lecturers, 12 Other Gazetted Staff, 7 Honorary Professors, 12 Honorary Assistant Professors, 5 Honorary Part-time Assistant Professors, 3 Part-time Junior Lecturers, 98 Class III and 80 Class IV employees.

(h) New appointments :

(i) Dr. V. P. Bhatt	Dean, Medical College, Baroda
Anaesthesia	
(i) Dr. S. S. Kabade	Assistant Professor
(ii) Dr. (Kum.) S. K. Parikh	Junior Lecturer

Bacteriology

(i) Dr. R. P. Bhatt	Assistant Professor
(ii) Dr. P. N. Kataria	Junior Lecturer

Ophthalmology

(i) Dr. K. J. Sheth	Assistant Professor
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Paediatrics

(i) Dr. (Kum.) U. J. Modi	Professor
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Pathology

(i) Dr. V. J. Patel	Junior Lecturer
(ii) Dr. (Kum.) N. B. Mehta	"
(iii) Dr. S. T. Amin	"

Pharmacology

(i) Dr. V. R. Dhumal	Assistant Professor
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Physiology

(i) Dr. (Smt.) S. Chandwani	Assistant Professor
(ii) Shri N. P. Gopinath	Junior Lecturer
(iii) Dr. (Smt.) Leena Krishnamurthy	"

Radiology

(i) Dr. R. J. Patel	Junior Lecturer
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Surgery

(i) Dr. A. M. Thakkar	Professor
(ii) Dr. D. S. Doctor	Junior Lecturer
(iii) Dr. (Kum.) J. P. Mehta	"
(iv) Dr. G. N. Shukla	"
(v) Dr. R. B. Dave	Bio-Chemist

(c) Promotion/Upgradation of Teachers :

Dr. R. P. Bhatt, Dr. K. J. Sheth and Dr. S. S. Kabade, Junior Lecturers were promoted as Assistant Professors in Bacteriology, Ophthalmology and Anaesthesia respectively.

(d) Teachers who left the College :

Professors and Honorary Professors

(i) Dr. J. D. Pathak (Physiology),	(ii) Dr. R. S. Pande (Medicine)
(iii) Dr. S. H. Shah (Paediatrics),	(iv) Dr. P. M. Luhar (Medicine)
(v) Dr. V. G. Patel (Obstetrics & Gynæology)	(vi) Dr. V. M. Shah (Ophthalmology)

Assistant Professors

(i) Dr. M. T. Sheth (Pathology), (ii) Dr. J. M. Dave, (iii) Dr. A. R. Pradhan (Bacteriology), (iv) Dr. S. A. Vyas, (v) Dr. A. C. Shah (Surgery) (vi) Dr. (Kum.) N. A. Mohile (Obstetrics & Gynaecology), (vii) Dr. J. K. Patel (Ophthalmology), (viii) Dr. D. K. Shah (Psychiatry), (ix) Dr. S. S. Kabade (Anaesthesia)

Junior Lecturers

(i) Dr. V. H. Chhaya, (ii) Dr. (Smt.) Geeta Hathi (Physiology), (iii) Dr. (Smt.) K. S. Rajan (Pharmacology), (iv) Dr. S. I. Garbadwala, (v) Dr. J. B. Cupala (Pathology) (vi) Dr. P. N. Kataria (Bacteriology), (viii) Dr. R. S. Gaekwad (Pre. & Social Medicine), (ix) Dr. P. R. Shah, (x) Dr. J. T. Patel (Medicine), (xi) Dr. N. R. Pandya (Obstetrics & Gynaecology), (xii) Dr. S. P. Shaikh (Psychiatry), (xiii) Dr. (Smt.) A. M. Bhatt, (xiv) Dr. D. M. Shah (Anaesthesia).

Dr. T. V. Patel, the Dean of the Faculty of Medicine and Honorary Professor of Obstetrics and Gynaecology, after superannuation has been reappointed as Honorary Specialist in Obstetrics and Gynaecology at this institution.

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

Authors	Title	Journal
Physiology Department		
(1) Dr. J. P. Saxena and N. R. Prabhakar	(i) Effect of distension of urinary bladder on blood pressure, heart ratio, respiration and E.C.G.	Indian Journal of Physiology and Pharmacology, 15 P 31, 1971
(2) Shri P. Gopinath and P. B. Shah	Circulatory and Respiratory adjustments during severe chronic anaemia	Indian Journal of Medical Research 50, 3, 1971
Pharmacology Department		
(3) Dr. C. P. Shah, K. Venugopal and O. D. Gulati	A study of some aspects of plasma insulin-like activity	Indian Journal of Physiology and Pharmacology, April, 1971
(4) Dr. O. D. Gulati and D. G. Patel	Effects of various drugs on insulin antibodies	British Journal of Pharmacology, May, 1971
(5) Dr. O. D. Gulati and V. V. Nelkar	Effect of tyramine on human umbilical artery in vitro	British Journal of Pharmacology, May, 1971

Authors	Title	Journal
(6) Dr. O. D. Gulati and Saroj Jayakar	Factors affecting the action of guanethidine on adrenergic neurones	British Journal of Pharmacology, July, 1971
(7) Dr. O. P. Sethi and O. D. Gulati	An estimate of the muscarinic ganglion blocking potency of atropine	Indian Journal of Physiology and Pharmacology, October, 1971
Bacteriology Department		
(8) Shri S. M. Sayed, N. C. Shah, S. C. Parikh, B. M. Patel, J. N. Dave and B. R. Joglekar	Staphylococcus aureus and antibiotics response in Hospital infection	Medical and Surgery, Vol. II, Page 33-36 April, 1971
Preventive and Social Medicine Department		
(9) Dr. Y. I. Patel, D. H. Trivedi and A. K. Niyogi	Microenvironment in rural houses	Indian Journal of Preventive and Social Medicine, Vol. 2 September, 1971, No. 4
(10) Dr. D. H. Trivedi and A. K. Niyogi	A curative and preventive general practice unit in a teaching hospital	Indian Journal of Preventive and Social Medicine, Vol. 2 September-December, 1971 and No. 4 Vol. 3, No. 1, Page No.35, March, 1972
(11) Dr. A. K. Niyogi and C. P. Shah	An integrated clinic	Indian Journal of Preventive and Social Medicine, Vol. 2 September-December 1971 and No. 4 Vol. 3, No. 1, Page 37, March, 1972
Department of Medicine		
(12) Dr. C. P. Shah, K. Venugopal and O. D. Gulati	A study of some aspects of plasma free insulin like activity	Indian Journal of Physiology and Pharmacology, Vol. 15 : 59, 1971
(13) Dr. C. P. Shah, B. R. Shah, N. G. Sanghavi, J. B. Shah and K. Venugopal	Efficacy of single and repeat dose of tolbutamide	'Madhumeh' (Journal of Indian Diabetes Association), 11 : 58, 1971

Authors	Title	Journal
(14) Dr. P. Gopinath, P. B. Shah, S. B. Tullue, C. P. Shah and S. D. Nishith	Circulatory and respiratory adjustments during severe anaemia	Indian Journal of Medical Research, 59 : 46, 1971
(15) Dr. C. P. Shah, B. R. Shah and N. G. Sanghavi	Unusual side effects of Indomethacin therapy	Indian Medical Association (Gujarat State Branch), 16 : 139, 1971
(16) Dr. B. R. Shah	(i) Unusual manifestations of lymphosarcoma—A report of two cases	Journal of Association of Physicists of Ind. Vol. 19, p. 539. 41, No. 7, July, 1971
	(ii) Inter Scapular syndrome	Journal of Association of Physicists of Ind. Vol. 19, p. 579-83, No. 8 August, 1971
(17) Dr. C. P. Shah, B. R. Shah, N. G. Sanghavi and N. N. Patel	Clinical and bio-chemical data in differential diagnosis of jaundice	Medical Bulletin, Indian Medical Association (Gujarat State Branch) August, 1971.
(18) Dr. (Smt.) P. Kaul	Torsion dystoma	Medical Bulletin, Indian Medical Association (Gujarat State Branch), 1971
(19) Dr. (Smt.) P. Kaul and H.R.E. Townsend	E.E.G. changes in disseminated sclerosis (E.E.G. and electrophysiology)	Journal of E.E.G., Association of Great Britain, 1971
Obstetrics and Gynaecology Department		
(20) Prof. R. V. Bhatt	(i) The use of Hyaluronidase in cervical dilatation	Journal of Obstetrics and Gynaecology of India, 21, 569, 1971
	(ii) The use of neat iron dextran complex in iron deficiency anaemia	Mediscope, 14, 317, 1971
	(iii) Environmental factors causing reaction to iron dextran, a possible remedy	Proceedings of the 5th Asian Congress of Obstetrics and Gynaecology

Authors	Title	Journal
	(iv) Study of iron absorption after addition of sodium bicarbonate	Proceedings of the 5th Asian Congress of Obstetrics and Gynaecology
	(v) Pattern of Maternal mortality	Proceedings of the 5th Asian Congress of Obstetrics and Gynaecology
	(vi) Prevention of pregnancy anaemias in developing countries	Mediscope, 14: 290, 1971
Paediatrics Department		
(21) Dr. V. H. Chhaya and U. N. Betkerur	Arthrogryposia multiplex Congenita	Paediatrics Clin. of Indian 6: 107-11, 1971
(22) Dr. A. T. Pathak and S. B. Shah	(i) A report of the Indian Paediatrics at 8: working of a well Baby Clinic	166-75, 1971
	(ii) Encephalopathy following dental isoniazid poisoning	Clin. Paediat. 10: 356-58, June, 1971
(23) Dr. U. N. Betkerur and D. S. Shah	Anhidrotic ectodermal dysplasia	Paed. Clin. of India, 6: 181-83 July, 1971
(24) Dr. U. N. Betkerur, D. S. Shah and S. H. Shah	Pattern of anaemias in childhood	Indian Paediat. 8: 350-54 July, 1971
(25) Dr. N. N. Saxena, A. J. Patel and S. H. Shah	Rheumatic fever and rheumatic heart disease in Baroda Children	Paediat. Clin. of India, 6: 199-203, October, 1971.
(26) Dr. A. T. Pathak and S. H. Shah	Neonatal gangrene due to intra-arterial nikethamide	Paediat. Clin. of India, 6: 225-78, October, 1971.
(27) Dr. N. N. Saxena	Recurrent Coarctation of the aorta: incidence, likely causes and some views about the initial management of coarctation	Paediat. Clin. of India, pp. 15-17, January, 1972.

Authors	Title	Journal
(28) Dr. A. T. Pathak	(i) The lost child	Medical News, Medicine and Law, 2: 126-29, 1972.
	(ii) The child in ancient India	Medical News, Medicine and Law, 2: 142-45, 1972.

Clinical Chemical Department

(29) Dr. A. S. Chikramane, P. T. Acharya, N. N. Betkerur, Y. J. Vasavada and A. R. Mehta	Evaluation of plasma aminograms in assessment of nutritional status of mothers and new borns with special reference to low birth weight babies	Indian Journal of Paediatrics, Vol. IX, No. 2, p. 79-84, February, 1972.
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(b) Papers presented at Conferences, Seminars etc.:

(1) Dr. O. D. Gulati	Further studies of the alpha adrenergic blocking action of beta adrenergic blocking drugs	XVIIth Annual Conference of the Association of Physiologists and Pharmacologists of India at Trivandrum, 4th to 7th March, 1972.
(2) Dr. D. S. Shah and O. D. Gulati	2-3-(3-pyridyl) Vinyl-30 tolyl-3, dihydroquinazolinone-4 one (SRC-909) —Part II Influence on the responses of the Voluntary muscle to cholinergic drugs and nerve stimulation	XVIIth Annual Conference of the Association of Physiologists and Pharmacologists of India at Trivandrum, 4th to 7th March, 1972.
(3) Prof. A. K. Niyogi and Dr. S. R. Kulkarni	Chronic Bronchitis and Bronchial Asthma in the aged	2nd Annual Conference of Indian Association of Preventive and Social Medicine at Hyderabad, 7th to 9th February, 1972.
(4) Dr. C. P. Shah	(i) Integrated teaching (ii) Integrated practice—C.P.G.P. at Baroda	U.G.C. Seminar on 'Integrated teaching and practice' at Varanasi, 9th to 12th February.

Name	Title of the Paper	Conference/Seminar
(5) Prof. R. V. Bhatt	(i) Study of the reactions to iron dextran complex and a possible remedy (ii) Our experience with addition of sodium incarbonate and ascorbic acid in iron absorption	5th Asian Congress of Obstetrics and Gynaecology at Jakarta, 12th to 16th October, 1971
	(iii) Teaching Obstetrics and Gynaecology undergraduate and post-graduate	
	(iv) Study of weight gain in normal pregnancy	15th All India Congress of Obstetrics and Gynaecology at New Delhi, 10th to 12th March, 1972.
	(v) Our experience with intravenous iron dextran complex in 675 patients	
	(vi) Studies in iron absorption	International Seminar on Family Planning at New Delhi, 12th to 16th March, 1972
	(vii) Study of the pattern of reproduction	
	(viii) Criminal abortions in Western India	
(6) Dr. A. T. Pathak and S. B. Shah	Post-infusion Phlebitis	IX National Conference of I.A.P. at Agra in March, 1972
(7) Dr. A. S. Chikramane, A. J. Patel and N. R. Patel	The role of nutritional rehabilitation in the management of protein calorie malnutrition	IX National Conference of I.A.P. at Agra in March, 1972.
(8) Dr. D. S. Shah, A. S. Chikramane and P. K. Billur	Effect of maternal iron	IX National Conference of I.A.P. at Agra in March, 1972

(c) Participation in inservice and other Programmes :

<i>Name of the teacher</i>	<i>Programme</i>
(1) Dr. V. P. Vaishnav	Participated in the Orientation Programme on Leprosy, at Gandhi Leprosy Foundation, Wardha from 19th to 21st July, 1971
(2) Prof. A. K. Niyogi	Participated in the programmes on (a) Teaching practice of integrated medicine to undergraduates and (b) Curative, Preventive and General practice unit in a teaching hospital for practising integrated medicine by Rotating Interns, organised by the Banaras Hindu University at Banaras
(3) Prof. R. V. Bhatt	Participated in the Workshop on teaching of Family Planning held at Jakarta, Indonesia from 6th to 8th October, 1971

(d) Research Work completed

<i>Name of the teacher</i>	<i>Research Project</i>
(1) Dr. Nathan Indumati & Dr. V. P. Vaishnav	(a) Work involving determination of haptoglobins by two separate methods on 150 healthy persons (Control) and patients of Cirrhosis of liver and other diseases of liver (b) Distribution of blood groups (seven systems) in an indigenous (Bohras)
(2) Dr. C. P. Shah and his Colleagues	(a) Plasma insulin like activity in normal, diabetes mellitus, effect of tolbutamide, phenformin and pregnancy (b) Clinico etiological evaluation of hemiplegia
(3) Dr. R. V. Bhatt	(a) Study of environmental factors in reproductive performance (b) Study of pulmonary function in normal pregnancy (c) Study of septic abortion in Baroda (d) Study of weight pattern in the postpartum period
(4) Dr. M. L. Pai	Studies on some aspects of Gastric Secretion—Chemistry and Secretion of gastric mucins

<i>Name of the teacher</i>	<i>Research Project</i>
(5) Shri P. B. Shah	Study of acid base and electrolyte status in neonatal infants
(6) Shri S. C. Parikh	Some aspects of Carbohydrate metabolism in neonates.
(7) Staff members of the Clinical Chemistry Department	(a) Fibrinogen levels in plasma of Healthy Indians (b) Analysis of 170 Calculi (c) Serum proteins, electrophoretic pattern in Cirrhosis of Liver

(e) Research work in Progress :

(1) Dr. P. S. Gupte	The development of the Eye in the Rat from the 10th day of gestation to the end of gestation (22nd day) Prenatal and 1st day after birth (Post-natal)
(2) Dr. M. N. Shah and J. P. Saxena	Mechano-receptors of the stomach affecting blood pressure in dogs
(3) Dr. J. P. Saxena and Mohan Rao	E. C. G. and histological changes in heart of the dogs after bilateral vagotomy in the neck
(4) Dr. T. V. Joshi, S. Srinivasan and J. P. Saxena	Iron transport in sub-clinical nutritional anaemia
(5) Shri K. P. Skandhan and Dr. J. P. Saxena	Effect of various antibiotics on the reproductive cycle of the laboratory animals
(6) Shri K. Somasundaram and Dr. J. P. Saxena	Contractile elements of the mitral valve of dogs
(7) Shri P. Gopinath and Dr. J. P. Saxena	Studies on some aspects of angiotensinase activity of various tissues
(8) Shri G.E. Gagera and Dr. V.P. Vaishnav	Isolation of <i>V. Cholerae</i> from sewage of Baroda
(9) Kum. V. N. Gokani, Dr. V. P. Vaishnav and Dr. P.M. Trivedi	Epidemiology of Burns
(10) Dr. U. L. Deoskar, Dr. V. P. Vaishnav, Dr. Chauhan and Dr. Modi	Pathology of sudden and unexpected death in medico-legal practice

Name of the teacher	Research Project
(11) Dr. D. D. Dharkar and Dr. V. P. Vaishnav	Tumours of skin and its adnexa
(12) Dr. D. N. Shah	Epidemiology of Foetal loss
(13) Dr. D. B. Vyas	Syphilis in the antenatal women
(14) Dr. G. C. Pain	Epidemiology of cancer of the Breast
(15) Dr. R. S. Gaekwar	In search of Byssinosis
(16) Dr. C. P. Shah and others	(a) Latent diabetes in relatives of diabetic patients (b) Renal function in diabetes mellitus (c) Renal involvement in hypertension, aortography in hypertension (d) Plasma insulin like activity in protein malnutrition (e) Spastic paraplegias-etiologiical evaluation (f) Epilepsy - Pneumoence - phalographic study and drug control (g) Cerebrovascular disease due to non-specific arteritis (tubercular)
(17) Dr. R. V. Bhatt	(a) Study of nutritional status of mother in relation to new-born (b) Study of pyrosia in pregnancy (c) Study of urinary tract infection
(18) Dr. (Smt.) N. B. Swamy, Dr. B. C. Patel and V. K. Bakum	Relation between breast feeding and menstruation and evaluation
(19) Dr. (Smt.) N. B. Swamy, Dr. B. C. Patel and V. A. Desai	Effect of maternal toxemia in fetus and new born
(20) Staff members of the Paediatrics Department	(a) Study of tetanus (including trial of Diasopam-a trial of I/V 1500 I.U. of A.T.S. in new-borns and biochemical changes in tetanus)

Name of the teacher	Programme
	(b) Study of newborns including (i) study of foetal adaptation to maternal anaemia, (ii) Electrolyte status in newborns, (iii) Carbohydrate status in newborns and (iv) effect of maternal malnutrition on the newborns.
	(c) Study of Cerebral Palsy and Mental retardation (including developmental treating).
	(d) Study of Rheumatic fever.
	(e) Follow-up study of malnutrition children.
	(f) E.C.G. changes in nephritis.
	(g) Dong trial of U.N.I.
	(h) Trial of endoxan in the management of Nephrotic Syndrome.
(21) Shri A. R. Mehta	Studies on the effect of maternal protein malnutrition on the growth and nutrition status of the featus and neonatal infants.
(22) Staff members of the Clinical Chemistry Department	(a) Direct and indirect bilirubin in Liver diseases. (b) Correlation of serum cholesterol levels of two mothers. (c) Study of serum cholesterol and cholesterol esters in health and diseases.

5. Library

The details regarding the average daily attendance of students and teachers in the Library and the reading-room and the number of books issued to them are given in the following statement.

Particulars	Number
(1) Average number of students making use of the Library and/or the reading room daily.	277
(2) Average number of teachers making use of the Library and/or of the reading-room daily.	65
(3) Total number of books issued to students during the year.	46,000
(4) Total number of books issued to teachers during the year.	5,100

Details regarding the stock and expenditure on the Library :

	<i>Particulars</i>	<i>Number</i>	<i>Cost in Rs.</i>
(1)	Books (including back numbers of journals as on 1-4-1971)	15,505	—
(2)	Books written off during the year	—	—
(3)	Books added during the year (including Back volumes)	707	22,255-60
(4)	Books as on 31-3-1972	16,212	—
(5)	Journals subscribed during the year	172	32,597-45
(6)	Amount spent on binding during the year	—	2,817-00
(7)	Total amount spent for library and/or reading-room during the year	—	57,670-05
(8)	Working hours of the Library	8-30 a.m. to 10-00 p.m. (Monday to Saturday) 9-00 a.m. to 8-00 p.m. (Sunday)	
(9)	Reading room facilities	Six reading-rooms	

6. Museum, Laboratory, Studios, Workshops, etc.

<i>Sr. No.</i>	<i>Item</i>	<i>Cost of equipment as on 1-4-1971 Rs.</i>	<i>Cost of equipment etc. written off during the year Rs.</i>	<i>Cost of equipment etc. added during the year Rs.</i>	<i>Cost of equipment as on 31-3-1972 Rs.</i>
(1)	Museum	3,83,409	1,372	3,602	3,85,639
(2)	Laboratories	6,38,734	5,955	20,047	6,52,826
(3)	Studios	13,480	—	—	13,480
	Total :	10,35,623	7,327	23,649	10,51,945

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

1. Staff

The staff of the Unit consists of 1 Head (Honorary), 1 Organic Chemist, 2 Honorary Clinicians (Medicine and Obst. and Gynaecology), 2 Registrars in Modern System of Medicine and 2 Registrars in Ayurvedic System of Medicine, 1 Research Assistant in Chemistry, 2 Class III and 5 Class IV employees. Dr. O. D. Gulati, Professor of Pharmacology, Medical College, Baroda worked as the Honorary Head of the Unit during the year under report.

2. Functions of the Unit

Research in Ayurveda is the sole object of this Unit. The Unit has a Library, a Museum of Indian Medicinal Herbs and Minerals, a Clinical Laboratory, and a Rasa-Shala.

3. Library

The total number of books is 2,621.

4. 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 "Origin 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.

5. Garden

60 Ayurvedic herbs are maintained in the garden for fresh juices and quaths that are used in pharmacy preparations and clinical trials.

6. Research

The following Ayurvedic Research Projects have been undertaken by the staff of the Unit and the Medical College :

- | | |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------|
| (1) Dr. R. V. Bhatt,
Professor of Obstetrics and
Gynaecology | (i) Ashok for Dysfunctional
Uterive Bleeding (D.U.B.)
(ii) Trifala Douche |
| (2) Dr. C. P. Shah and
Dr. A. B. Ray | Terminalia Arjuna |

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Review of Faculty Activities

(1) Three Periodical Tests per term were held during the year for courses conducted on yearly basis or during each semester for courses conducted on semester basis for evaluation of credit marks in each subject for each of the classes under all the degree and diploma courses conducted at this Faculty.

(2) Co-operative (Sandwich) course, was started in Summer 1969, as a Pilot project. Initially it was confined to the Mechanical and Electrical branches. The first batch of students of Mechanical and Electrical branches under the Sandwich Programme completed their training in December, 1971. The training programme proved to be successful and it is heartening to note that all the trainees were offered jobs immediately on completion of the training.

Co-operative training programme was initiated for Metallurgical Engineering students during the year under review, the initial intake being 10 students. The second and final phases of training for Chemical Engineering students during the same period progressed well.

It was felt that the scheme should be expanded to cover about 10% of the graduating class in order to make the sample of the Pilot project more representative. Admission to these courses were given on the basis of aptitude, academic standing and motivation.

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>Diplomas:</i>			
Textile Chemistry:			
I Year	29	—	29
II Year	18	—	18
III Year (Final Year)	95	—	95
S.S.C. 15			
B.Sc. 80			
Textile Technology:			
Pre. T.T.	34	—	34
1st Year T.T.	15	—	15
2nd Year T.T.	21	—	21
3rd Year T.T. (Final Year)	25	—	25
Total	237	—	237
(b) <i>Post-Diploma Diploma :</i>			
Diploma in Refrigeration and Air-Conditioning	9	—	9
Total	9	—	9
(c) <i>Degree:</i>			
B.E. I (CME, Ch, Met.)	447	—	447
B.E. II (Civil)	63	1	64
B.E. II (Mech.)	90	—	90
B.E. II (Elec.)	104	—	104
B.E. II (Chem.)	41	—	41
B.E. II (Met.)	35	—	35
B.E. III (Civil)	67	—	67
B.E. III (Mech.)	89	—	89
B.E. III (Elec.)	87	2	89
B.E. III (Chem.)	40	—	40
B.E. III (Met.)	33	—	33
B.E. IV (Civil)	82	—	82
B.E. IV (Mech.)	94	1	95
B.E. IV (Elec.)	71	—	71
B.E. IV (Electronics)	17	—	17
B.E. IV (Chem.)	42	—	42
B.E. IV (Met.)	42	—	42
B.E. V (Civil)	84	3	87
B.E. V (Mech.)	109	—	109

	Men Students	Women Students	Total Number
B.E. V (Elect.)	84	1	85
B.E. V (Chem.)	42	—	42
B.E. V (Met.)	54	—	54
B.E. V (Electronics)	17	—	17
Post-B.Sc. B.E. I (Electronics)	25	—	25
Post-B.Sc. B.E. II (Electronics)	19	1	20
Post-B.Sc. B.E. III (Electronics)	13	—	13
Textile Engineering and Technology:			39
F.Text. Engg. and Tech.	39	—	39
S.Text. Engg.	14	—	14
S.Text. Tech.	30	—	30
T.Text. Engg.	8	—	8
T.Text. Tech.	27	—	27
B.Text. Engg.	17	—	17
B.Text. Tech.	37	—	37
Architecture:			41
B.Arch. I Year	34	7	41
B.Arch. II Year	24	10	34
B.Arch. III Year	34	8	42
B.Arch. IV Year	27	6	33
B.Arch. V (Final) Year	31	15	46
Total	2,213	55	2,268
(d) Post-Graduate Diploma in Refri- geration and Air-Conditioning	10	—	10
Total	10	—	10
(e) Post-Graduate Degree:			
Civil Engineering			
Public Health Engineering:			
Jr. Year	2	—	2
Sr. Year	2	—	2
Soil Mechanics:			
Jr. Year	—	—	—
Sr. Year	1	—	1
Highway Engineering:			
Jr. Year	3	—	3
Sr. Year	2	—	2
Hydraulics:			
Jr. Year	1	—	1
Sr. Year	—	—	—

	Men Students	Women Students	Total Number
Structural Engineering:			
Jr. Year	5	—	5
Sr. Year	2	—	2
Mechanical Engineering			
Internal Combustion Engineering:			
Jr. Year	9	—	9
Sr. Year	8	—	8
Production Engineering:			
Jr. Year	4	—	4
Sr. Year	8	—	8
Electrical Engineering:			
Automatic Control Engineering:			
Jr. Year	10	—	10
Sr. Year	7	—	7
Power Engineering:			
Jr. Year	5	—	5
Sr. Year	2	—	2
M.Text. Engineering:			
Jr. Year	4	—	4
Sr. Year	5	—	5
Total	80	—	80
(f) Ph.D.	6	—	6
Summary			
(a) Diploma	237	—	237
(b) Post-Diploma Diploma	9	—	9
(c) Degree	2,213	55	2,268
(d) Post-Graduate Diploma	10	—	10
(e) Post-Graduate Degree	80	—	80
(f) Ph.D.	6	—	6
Grand Total	2,555	55	2,610

4. Staff

(a) Present Position:

During the year the staff of the Faculty consisted of 19 Professors (three of whom are in the Senior Scale), 33 Readers, 68 Lecturers, 55 Senior Instructors, 2 Junior Instructors, 26 Assistant Lecturers, 156 Class III and 88 Class IV employees.

(b) *New Appointments:*

- (1) Professor V. Seshadri, Professor of Metallurgical Engineering.
- (2) Dr. P. R. Roy, Reader in Textile Engineering
- (3) Shri B. P. Sarkar, Lecturer in Textile Engineering

(c) *Teachers up-graded to higher posts:*

- (1) Dr. R. C. Desai, Reader in Electrical Engineering to Professor of Electrical Engineering
- (2) Shri C. S. Lalwani, Senior Instructor in Electrical Engineering to Lecturer in Electrical Engineering

(d) *Teachers who left during the year under report:*

- (1) Shri M. R. Shah, Lecturer in Metallurgical Engineering for better prospects
- (2) Shri R. H. Patel, Lecturer in Chemical Engineering for better prospects
- (3) Professor L. B. Shah, Professor and Head of the Mechanical Engineering Department and Dean, retired

Professor N. Y. Hiriyur, Professor of Applied Mechanics, expired.

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

Sr. No.	Name	Title	Where published
(1)	Dr. A. V. Shroff	Heat propagation in lattice structural of clay minerals	Faculty of Technology and Engineering Journal, No. 5.
(2)	Dr. R. K. Katti, Shri J. N. Vyas and Shri S. D. Devkule	Soil interaction in well foundation Model studies	Indian Geo-technical Journal, January, 1972.
(3)	Prof. R. M. Dave	(i) Thermal Pollution	Faculty of Technology and Engineering Journal, No. 6.
		(ii) Analysis of liquid turbulence signals	Faculty of Technology and Engineering Journal, No. 6.
		(iii) Turbulent Oscillating Conette flow part I (Theoretical study)	Faculty of Technology and Engineering Journal, No. 6.
		(iv) Turbulent Oscillating Conette flow part II (Experimental study)	Faculty of Technology and Engineering Journal, No. 6.

Sr. No.	Name	Title	Where published
(4)	Prof. R. M. Dave, Shri P. M. Modi and Shri B. N. Patel	Factors affecting discharge coefficient in restricted orifice sewage tanks	Faculty of Technology and Engineering Journal, No. 6.
(5)	Prof. R. M. Dave, Shri P. M. Modi and Shri Ramkrishna	Steady state seepages from canals	Faculty of Technology and Engineering Journal, No. 6.
(6)	Prof. R. M. Dave and Shri A. K. Savani	Location of critical depth of underground water table for seepage from canals	Faculty of Technology and Engineering Journal, No. 6.
(7)	Shri G. S. Parthasarathy and Prof. Sethuraman	Experimental studies on waves around bridge piers	Faculty of Technology and Engineering Journal, No. 6.
(8)	Dr. S. K. Mehta	(i) Influence of piece wise Linear cost-time, relationship on Project cost determination	Faculty of Technology and Engineering, Journal, No. 6.
		(ii) A Heuristic method of Assembly Line Balancing	Faculty of Technology and Engineering Journal, No. 6.
		(iii) Monto-Carlo Technique for Optimising Production rate and safety stock	Faculty of Technology and Engineering Journal, No. 6.
(9)	Shri K. J. Mody	Heat Transfer	Faculty of Technology and Engineering Journal, No. 6.
(10)	Prof. R. C. Desai	Estimation of Turbo-alternator Transfer Functions by variational Theory using normal operating Data non-sequentially	International Journal of Control (U.K.) September, 1971, Vol. 4, No. 3, pp. 455-64.
(11)	Shri C. S. Lalwani and Prof. R. C. Desai	Estimation of system Parameters with unknown Inputs using steepest Descent Technique	International Journal of Control (U.K.) October, 1971, Vol. 14, No. 4, pp. 769-78.

Sr. No.	Name	Title	Where published
(12)	A. John Christopher and Prof. R. C. Desai	Optical Control of a Linear Discrete—Time system using an observer with known statistics of Initial States	Proceedings of the Fifth Hawaii International Conference on System Science held at Honolulu, Hawaii, U.S.A. on January 11-13, 1972.
(13)	Shri K. K. Thakkar and Shri K. Parthasarthy	Restricted Zone-protection of Short Transmission lines	Institution of Engineering (India) Journal, 1972.
(14)	Prof. S. B. Pandya	Case study in pressure Vessels Design—The Methanol converter	Chemical Age of India 22(6) pp. 377-385 June, 1971.
(15)	Shri N. Laxminarayan	Studies in process, Development of Salicylaidehyde	Faculty of Technology and Engineering Journal, Vol. No. 6, pp. 18-21 July, 1971.
(16)	Prof. V. Seshadri and V. K. Gupta	Structure and viscosity of Silicate slags	Silver Jubilee Symposium, Indian Institute of Metals, February, 1972.
(17)	Shri P. J. Roy Chowdhury and A Ghosh	Thermodynamics Measurements in liquid Sn-Ag. alloys	Metallurgical Transactions, Vol. 2 August, 1971-72.
(18)	Prof. R. V. Joshi and Shri T. R. Joshi	(i) Thermolumino-scene of NaCl: 71 at 340°K	Journal of Lumino-scene 3, 389, 1971.
		(ii) Thermolumino-scene of quenched NaCl: T1	J. App. Phys., Japan 10, 1291, 1971.
(19)	Shri C. G. Kartha and Dr. R.K.L. Padmini Agrawal	(i) Ultrasonic and viscous behaviour of Polymesomorphic liquid crystals	J. Phys. Soc., Japan 31, 904, 1971.
		(ii) Ultrasonic absorption in Cholastoric liquid crystals	J. Phys. Soc., Japan. 31, 617, 1971.
		(iii) Ultrasonic Velocity studies in Cholesteric liquid crystals	Indian J. Pure App. Physics 9, 725, 1971.

Sr. No.	Name	Title	Where published
(20)	Shri R. M. Pancholi	Attribution of Gender to English Loan words in Gujarati	Indian Linguistics Journal, Vol. 19.

(b) *Published Books and Brochures:*

Book	Authors	Name of the publisher with month of publication
Engineering Education The way ahead	Prof. K. A. Everard and Prof. P. J. Madan	M. S. University Press

6. Activity of Centre

The working of the Co-operative Store was satisfactory. Total sale during the year amounted to Rs. 8,038-25.

7. Faculty Union Activities

(1) 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. The Chapter screened during the year, 20 films of general and technical interest, conducted tours to the Gujarat Refinery, Dhuvaran, Thermal Power Station and Ukai Dam. It has its own library consisting mainly of text-books for the benefit of members.

(2) The Faculty has a stock of 23 films on various subjects of educational interest and also 14 strips of 35 mm films. Every year additional films are taken on loan for use from various organisations. 39 films were shown during the months July, 1971 to March, 1972.

8. Library

The reading room of the Library has a sitting accommodation for 130 readers. Books for reference are issued between 8-00 a.m. and 10.00 p.m. on all working days and also on Sundays and Holidays. Books are issued for reading at home between 11-00 a.m. and 5-15 p.m. on all working days and between 11-00 a.m. and 2-45 p.m. on Saturdays.

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

R17

Particulars	Number
(1) Average number of students making use of Library and/or reading room daily	875
(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	42,000
(4) Total number of books issued to teachers during the year	6,810

The stock and the expenditure on the library and/or the Reading-Room are given below:

Particulars	Number		Cost in Rs.
	Books	Bound Periodicals	
(1) Books (including) back number of journals as on 1-4-1971	39,621	4,705	10,07,453-51
(2) Books written off during the year	84	—	894-47
(3) Books added during the year	2,207	408	1,97,623-23
(4) Books as on 31-3-1972	41,744	5,113	12,04,182-27
(5) Journals subscribed during the year	198	—	25,000-00
(6) Amount spent on binding during the year	—	—	3,497-40
(7) Total amount spent for library and/or reading-room till the end of the year	—	—	12,32,679-67

9. Museum, Laboratories, Studios, Workshop etc.

Item	Cost of equipment etc. as on 1-4-1971	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment etc. as on 31-3-1972
	Rs.	Rs.	Rs.	Rs.
Laboratories, Workshop, Studios etc.	52,27,752-69	5,915-00	3,43,064-31	5,56,490-00
				55,64,902-00

10. Faculty Publications

Name of the Journal	Editor	Month of publication
Journal of Technology and Engineering	Editorial Board, Faculty of Technology and Engineering	July, 1971 and January, 1972.

11. Visitors

(1) The Expert Committee appointed by the Western Regional Committee to examine in detail and to make recommendation to the Regional Committee in connection with the proposal of Introduction of a Degree course in Pharmacy, visited this Faculty on 6-1-1972.

(2) Dr. D. G. A. Boutaev, Director, Field Science Office for South Asia and Chief of Mission of United Nations Educational Scientific and Cultural Organisation, New Delhi visited the Faculty on 19-1-1972 in connection with the proposed programme of development of Post-graduate Instruction and Research.

(3) Dr. J. Topping, Vice-Chancellor, Brunel University visited the Faculty on 15-2-1972.

CHAPTER XIV—FACULTY OF FINE ARTS

1. Courses of Studies

The Faculty offers the following courses:

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

2. Number of Students

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

Year/Class	Men	Women	Total
(a) Certificate:			
1st Year	5	1	6
2nd Year	2	2	4
Total	7	3	10
(b) Diploma:			
1st Year	27	3	30
2nd Year	24	1	25
3rd Year	14	—	14
4th Year	12	—	12
5th Year	13	2	15
Total	90	6	96
(c) Post-Diploma:			
Junior	4	2	6
Senior	—	3	3
Total	4	5	9

Year/Class	Men	Women	Total
(d) Degree:			
1st Year	30	11	41
2nd Year	7	9	16
3rd Year	5	8	13
4th Year	3	4	7
5th Year	12	9	21
Total	57	41	98
(e) Post-graduate Diploma:			
Junior	2	—	2
Senior	3	—	3
Total	5	—	5
(f) Post-graduate Degree:			
Junior	2	1	3
Senior	2	2	4
Total	4	3	7
(g) Ph.D.:			
Junior	—	—	—
Senior	2	—	2
Total	2	—	2
Grand Total	169	58	227

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

3. Staff

The staff of the Faculty including the Museology Department consisted of 2 Professors, 5 Readers, 19 Lecturers, 3 Assistant Lecturers, 1 Part-time Instructor, 14 class III and 18 class IV employees.

Shri K. B. Kapadia, Reader and Head of the Department of Sculpture retired on 30th May, 1971.

4. Professional Growth of the Staff

(a) Publication:

Name of the Teacher	Article/Paper	Name of the Journal
(1) Prof. K. G. Subramanyan	(i) Amrita Shergil and the East-West Dilemma	Amrita Shergil Marg Publication, 1972.
	(ii) An Artist crazy with his art	Ram Kinker Birla Academy of Art, Calcutta.
(2) Dr. Ratan Parimoo	(i) Evolution of Indian Painting since 1850	Times of India, 20-6-1971.
	(ii) A Mode of Abstraction	Times of India, 21-11-1971.
(3) Shri Gulam Sheikh	Amrita Shergil Dialectics of academism and pictorial situation of traditional Indian Art	Amrita Shergil Marg Publication, 1972.
(4) Shri S. M. Nair	(i) Biodeterioration of Cultural Property	Cultural Forum Vol. XIII, No. 2 -1971.
	(ii) Certain observation on the Biodeterioration of materials in India	Biodeterioration of Materials Vol. II, 1972. Elsevier Publishing Co. London.
	(iii) The Biodeterioration of Cultural Property in Tropical Countries	Preocedings of the Asia Pacific Conference on Conservation, February, 1972.

(b) Participation in Conferences, Seminars, Workshops:

(1) Dr. Ratan Parimoo read a paper in the Seminar on Legacy of Gupta Art at the Calcutta University.

(c) Participation in Inservice and Other Programmes:

(1) Sarvashri Ramesh Pandya and Vinay Trivedi participated in the All India Sequential School for Art Teachers (Painting) held at the J. J. School of Art, Bombay during October-November, 1971.

(2) Professor K. G. Subramanyan held a one-man show of his terracotta reliefs in Delhi while Shri Jairam Patel and Shri Ramesh Pandya held one-man shows of their paintings in Bombay. Kumari Kumud Patel held an exhibition of her ceramics at Ahmedabad.

(3) Shri G. C. Bhatt won a prize for Sculpture in the Gujarat State Art Exhibition and Shri Vinod Shah won a prize for Painting at the Bombay Art Society Annual Exhibition.

(4) Shri V. H. Bedekar continued to be the Chairman of the Indian National Committee of Museum Education. In this capacity, he carried out intensive survey of the educational activities being conducted by the various types of museums in India. He was also awarded the J.D.R. III Fund Fellowship for a period of three months to visit museums and study Museology courses in U.S.A. and Europe.

(5) Shri S. M. Nair attended the 9th ICOM General Conference in France, 2nd International Biodeterioration in Holland and visited museums and related laboratories in U.K. and Italy, under invitation from the British Council and the Rome Centre. He has also been awarded Homi Bhabha Fellowship for two years from 1st January, 1972 for conducting research on Biodeterioration of Museum Materials. He has also been appointed as an Editorial Advisor to the International Biodeterioration Bibliographic Journal. "Biodeterioration—Research Titles", published by the University of Aston in Birmingham. He has also participated in the Asia-Pacipacific Conference on Conservation at New Delhi.

(6) Shri R. T. Parikh, Lecturer in Museology was General Secretary of the Museological Society of Baroda. Moreover he has also continued his archaeological field work in the Banas-Kantha District, under the financial assistances of the U.G.C. and visited the area twice—once during the summer vacation and secondly during the mid-year vacation. Quite a few sites of all India importance have been discovered; antiquities found during the field work have been brought to the department for study and exhibition.

(d) Lectures, Talks, Demonstrations etc.:

(1) Prof. K. G. Subramanyan	(i) Art of Mural Painting	All India Sequential School for Art Teachers, Bombay.
	(ii) Religion and Art in India	Gujarat University, Ahmedabad.
	(iii) The Many Faces of Indian Tradition	Radhakamal Mukerjee Commemorative Lecture, Lucknow.
(2) Dr. Ratan Parimoo	(i) Teaching of Art History in Art Schools—Evolution of space in Painting (Two lectures—illustrated with slides)	All India Sequential School of Art Teachers, Bombay.
	(ii) Series of lectures on Art Appreciation	National Institute Design, Ahmedabad.

- (iii) German influence on Modern Indian Painting 10th Anniversary Celebration of German Language Society, Baroda.

- (3) Shri Jyoti Bhatt Art of Etching All India Sequential School of Art Teachers, Bombay.

(e) *Research:*

Shri Jyoti Bhatt started the project on 'Photographic survey of mural paintings in Gujarat'.

5. Exhibitions and Talks

(1) The following exhibitions were arranged from the archives of photographs and reproductions of the Art History Department:

- (i) Survey of Indian Sculpture.
(ii) Indian Painting through the ages.

(2) The following exhibitions were also held in the Faculty:

- (i) Batik paintings of Shri Bihari Barbhaiya.
(ii) Painting by Shri A. K. Das.
(iii) Photographs by the members of Baroda pictorialists.
(iv) Paintings of Shri Ramesh Pandya.
(v) Rural planning—An architectural project; (Exhibition of plans and charts by the Department of Architecture).
(vi) Exhibition of posters by Hemangini Ghia along with a talk on her Work.

(3) The Department of Museology arranged extra curricular lectures on different aspects of museum studies and collections, by Dr. Grace Merley, Permanent Expert, ICOM Regional Agency in Asia.

6. Faculty Union Activities

(1) The Annual Fine Arts Fair was held on 15th and 16th January, 1972. The total collection was Rs. 10,747-55 out of which Rs. 8,917-07 were contributed towards the National Defence Fund. In addition to this, the students and staff also contributed Rs. 541/- in aid of the National Defence Fund.

(2) The following students won prizes in various Art Exhibitions this year :

- (i) Shri J. K. Chillar
(ii) Shri Prayag Chillar
(iii) Shri Ashok Shah
(iv) Shri C. M. Solanki } Sculpture

- (v) Shri Manu Parikh
(vi) Kumari Rini Das Gupta
(vii) Shri Hemandra Bhatt
(viii) Shri A. K. Jaiswal
(ix) Kumari Archana } Painting
(x) Shri Jaidev Thaker } Graphics

(3) The staff and students of the Museology Department arranged a stall in the Bal-Mela organised by the Baroda Municipal Corporation. They also organised a temporary exhibition, in co-operation with the Rosary High School, Baroda, on 'Indian Art Through the Ages', for a period of 7 days.

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 1971-72:

	Books (including back number of Journals)	Pamphlets	Total value in Rs.
Number at the beginning of the year	5,481	94	87,606-87
Number added during the year	70	—	3,996-96
Number withdrawn from the record	—	—	—
Number at the end of the year	5,551	94	91,603-83

(b) *Periodicals:*

The total number of periodicals and journals subscribed to stood at 15, while the amount spent for this purpose was Rs. 1,572-64 P. The amount spent for binding was Rs. 454-50 P.

(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 40
(ii) Average number of teachers making use of the library 10
(iii) Average number of books issued per day for home-reading (issued only to the staff members and Post-graduate students) 10
(iv) Average number of books issued per day for reading on the premises. 30



8. Museum, Laboratory, Studios, Workshops etc.

Sr. No.	Item	Cost of equipment as on 1-4-1971	Cost of equipment etc., written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1972
		Rs.	Rs.	Rs.	Rs.
(1)	Studios and Workshops	3,74,433-20	—	10,857-70	3,85,290-90
(2)	Museology Department	62,381-84	—	—	62,381-84

In the Department of Art History a small Art Museum has been functioning containing plaster casts of Sculptures and original Rajasthani Paintings. During the year three water colour paintings of the well known artist of Shantiniketan, Shri Ram Kinker were acquired. Over 800 slides of Indian and European paintings and sculptures were purchased during the year bringing the total to about 6,500 slides. About 1,000 colour reproductions and photographs were added this year bringing the total to nearly 8,000.

9. Visitors

(1) Miss Beatrice Wood, reputed American Potter and Ceramist, visited the Faculty and gave a lecture on 'American Fold-Art and Craft' on 2nd March, 1972.

CHAPTER XV—FACULTY OF HOME SCIENCE

1. New Experiments

(1) The department of Child Development undertook 'Developmental Test of the Pre-School Children.'

(2) The department of Home Science Education started an inservice short term training course in Home Science Extension Education for staff members of other Universities.

2. Courses of Studies

There is provision for the following courses in the Faculty :

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

3. Number of Students

Class	Men	Weman	Total
(1) B.Sc. (Home)			
(i) First Year	—	174	174
(ii) Second Year	1	188	189
(iii) Third Year	—	169	169
(iv) Fourth Year	—	151	151
(a) Foods and Nutrition	—	50	
(b) Child Development	—	9	
(c) Home Management	—	50	
(d) Clothing and Textiles	—	18	
(e) Education and Extension	—	8	
(f) General Home Science	—	2	
(g) Repeaters	—	14	
Total :	1	682	683
(2) Post-graduate Diploma			
(a) Nursery School Education	—	11	11
(b) Dietetics	—	11	11
Total	—	22	22

	Men	Women	Total
(3) Jr. M.Sc. (Home)	1	35	36
(a) Foods and Nutrition	—	10	
(b) Child Development	—	5	
(c) Home Management	—	4	
(d) Clothing and Textile	1	9	
(e) Education and Extension	—	7	
	1	35	
(4) Sr. M.Sc. (Home)	—	36	36
(a) Foods and Nutrition	—	4	
(b) Child Development	—	10	
(c) Home Management	—	8	
(d) Clothing and Textile	—	8	
(e) Education and Extension	—	6	
	—	36	
Total	1	71	72
(5) Ph.D.			
(a) Clothing and Textile	1	4	5
(b) Child Development	—	2	2
Total	1	6	7
Grand Total	3	781	784

4. Staff

(a) Present Position:

The staff of the Faculty consisted of 3 Professors (One of whom is in the Senior Scale), 6 Readers, 20 Lecturers, 16 Assistant Lecturers, 3 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:

Dr. (Smt.) Leela Phadnis as Professor of Foods and Nutrition

(c) Teachers upgraded to Higher Posts:

Smt. Parul Dave, Smt. Veena Gandotra and Smt. Kalpna Parlikar who were working as Assistant Lecturers were promoted and appointed as Lecturers in Child Development, Home Management and Home Science Education and Extension respectively.

(d) Teachers who left the University

Name	Designation	Reason
(i) Dr. (Smt.) Leela Phadnis	Professor in Foods and Nutrition	For better prospects
(ii) Dr. (Kum.) Vijay Taneja	Reader in Home Management	Personal reasons
(iii) Smt. Shashikala J. Shinde	Lecturer in Clothing and Textiles	For better prospects
Smt. Kusum H. Pandya Lecturer in Child Development expired.		

5. Professional Growth of the Staff

(a) Publication of Papers/Articles

Name	Title	Where Published
(i) Kum. G. G. Kapadia	Task Analysis and Specification of Behaviour	Handbook of Programmed Learning, I.A.P.L., Baroda
(ii) Dr. (Smt.) Arvinda Chandra	A research study among women in Baroda	Indian Journal of Home Science, Vol. 5, No. 1, April, 1971
(iii) Dr. K. V. Trivikrama	Protein Nutrition and regional Chemistry for the brain (Three papers)	Indian Journal of Biochemistry and Biophysics, Volume 8, December, 1971

(b) Papers read or presented:

Kumari Kiran Parekh presented a paper on 'School readiness and adjustment in first grade' at the I.A.P.E. 7th Annual Conference at Allahabad.

(c) Participation in various Programmes:

- (1) Professor (Kum.) Justina A. Singh was appointed by the Indian Council of Agricultural Research to review the syllabi of all Agricultural Universities in India.
- (2) Professor (Smt.) Amita Verma continued to be the Vice-President of the Indian Association of Pre-School Education.
- (3) Dr. (Smt.) P. Phatak worked as Resource Person at the Summer School Programme of the N.C.E.R.T. at Mysore.
- (4) Dr. (Smt.) A. Chandra and Smt. Kalpana Parlikar were deputed to participate in training course on Research Techniques for Extension Education.

- (d) *Research :*
- (1) Research Work completed :
- (i) Dr. (Smt.) P. Phatak Adjustment to Nursery School
- (ii) Smt. Anjali Mehta Survey of Adolescence Studies
and
Kum. S. Velayudhan
- (iii) Kum. Neela Bhatt Self Concept Adolescence
- (iv) Kum. Vidya Dave Child Rearing Practices
- (2) Research Work in Progress :
- (i) Smt. Anjali Mehta Developmental Evaluation
- (ii) Dr. (Smt.) P. Phatak Child's life at house
- (iii) Smt. Parul Dave Problems of adolescence

6. Faculty/Union Activities

- (1) The Faculty arranged a symposium on 'Employment Potential of Home Science Graduates' on 5th November, 1971.
- (2) The staff and students of the Faculty arranged an exhibition to collect funds for the Jawans who fought bravely for the motherland.
- (3) The Faculty also organised a blood collection camp in February, 1972 and the staff and students of the Faculty donated blood for the Jawans.
- (4) Under the Wheat Associate Project, various demonstrations on preparation of nutritious dishes were given in urban and rural areas of the Baroda City.

7. Library

The Faculty Library is amalgamated with Smt. Hansa Mehta Library and the staff and students are making use of that library. All the departments maintain a small reference library for the use of the staff, post-graduate students and research scholars.

8. Museum, Laboratory, Studio, Workshop etc.

	<i>Cost of equip- ment as on 1-4-1971</i>	<i>Cost of equip- ment written off during the year</i>	<i>Cost of equip- ment added during the year</i>	<i>Cost of Equipment as on 31-3-1972</i>
	Rs.	Rs.	Rs.	Rs.
Museum	4,63,650-38	—	17,684-68	4,81,335-06
Laboratory etc.				

9. Faculty Publication

The Faculty published its Annual Magazine in March, 1972.

10. Visitors

- (1) Mr. N. G. Dias, High Commissioner for Ceylon 29-4-1971
- (2) Dr. Eva Gonzales, UNESCO Home Economic Expert 8-7-1971
- (3) Mr. Devraj, Institute of Public Co-operation and Administration, Dehli 5-11-1971
- (4) Dr. Sindhu Phadke, UNICEF, New Dehli 5-11-1971
- (5) Dr. S. R. Spencer, President, Davidson College, North Carolina (U.S.A.) and Dr. Frederick Gaigé, Director, South Asian Studies Programme, Davidson Collage, North Carolina (U.S.A.) 13-11-1971
- (6) Dr. N. V. Tirtha, Visiting Professor in Education from Bangalore University 25-11-1971
- (7) Mr. & Mrs. Jerry Joldersma, Asstt. Programme Officer, Agency for International Development, New Dehli 2-12-1971
- (8) Neapalese Ambassador to India 12-1-1972
- (9) Mrs. P. Kanagaratnam, Chief Education Officer for Home Science and Mrs. C. Kumaratnam, Trained and Teacher attached to the Ministry of Education for (10) Home Science Curriculum Work, Ceylon. } 27-1-1972
28-1-1972

CHAPTER XVI—FACULTY OF SOCIAL WORK

1. New Experiments—Study—Cum—Service Projects

(1) A seminar on “Workers’ Education and Industrial Relations” in collaboration with Regional Centre Workers’ Education, Baroda, was held on 21st August, 1971.

(2) A ten-day Orientation Training Seminar for Executives of Voluntary Welfare Institutions in Gujarat State was arranged from 12th to 22nd February, 1972 under the joint auspices of the Central Institute of Research and Training for Public Co-operation, New Delhi and the Faculty.

(3) A panel discussion on “Criminal Tendencies and Preventive Measures” was held on 13th February, 1972 under the joint auspices of District Probation Office and the Faculty.

(4) A study project on “Absenteeism in Bus Drivers and Conductors of the Baroda City and Mofussil Depots” was conducted during October, November and December, 1971 at the request of Gujarat State Transport Corporation, Ahmedabad.

(5) A project on “Alembic School-Leadership Programme” was undertaken and completed by Shri G. S. Vaswani and Smt. Varsha Anjaria.

(6) A project on “A Study of Leaders—contestants, M. S. University Union Election, 1971-72,” was undertaken by Shri Vaswani with the help of a few senior students. The Report was printed by the Public Relations Section of the M. S. University Union and was circulated through the student paper, ‘The Emester’.

(7) The Office Management Course was organised as an experiment with the help of Shri G. P. Shah of Alembic Chemical Works, Baroda.

(8) A Seminar-cum-Curriculum Development in Family Planning was arranged under the auspices of Dr. Katherine Kendall, Secretary General, International Association of Schools of Social Work, New York, during her visit to India.

(9) Professor Sugata Dasgupta, Joint Director, Gandhian Institute of Studies, Varanasi, delivered a series of lectures on “Social Change in India, the National and International Perspective” for 3 days in November, 1971.

(10) National Service Scheme Cell

(i) The IVth Orientation Course for University Teachers representing Saurashtra University, South Gujarat University and M. S. University of Baroda was organized in June, 1971.

- (ii) The Co-ordinator Shri I. P. Shelat participated as a resource person in a seminar organised by Gujarat Yuvak Vikas Trust. The Seminar was on “Youth Welfare—Its Objectives and Scope”.
- (iii) In September 1971, the Co-ordinator attended seminars of South Gujarat University and visited colleges of Godhra and Vallabh Vidyanagar. During February, 1972, the Co-ordinator visited six units of NSS in Saurashtra and discussed NSS problems with the authorities of Saurashtra University and Ayurvedic University.

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. On an average the student puts in 15 hours of work per week in the field work agency every term. 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.

The Faculty continued to get co-operation from agencies in industrial settings. The students carried out useful project 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.

3. Number of Students

The number of students enrolled in junior and senior classes during the year 1971-72 was as under :

	Men	Women	Total
Junior Class	22	18	40
Senior Class	31	22	53
Total :	53	40	93

4. 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 the students of the Faculty.

(b) New Appointments :

Smt. Promila Maitra and Shri G. S. Vaswani were appointed Lecturers in Social Work.

(c) Teachers who left the University :

- | | | | |
|-------|---------------------|-------------------------|---------------------------|
| (i) | Shri S. K. Majmudar | Reader in Social Work | For better prospects |
| (ii) | Dr. V. B. Shah | Reader in Social Work | For higher studies abroad |
| (iii) | Shri S. H. Shah | Lecturer in Social Work | For personal reason |

5. Professional Growth of the Staff

(a) Participation in In-service Programme etc. :

- (1) Professor (Kum.) Indira Patel was invited to teach "Group Social Work Method and Practice in Psychiatric setting" and "Case Work Techniques" at the hospital for Mental Diseases at Ranchi.
- (2) Shri K. M. Sharma was invited by Sawhni Leisle Foundation of India to act as resource person on "Youth and Change" in Leadership Camp at Lonavala, Maharashtra in November 1971.

(b) Participation in Seminars, Conferences, Workshops etc. :

Staff Member	Seminar/Conference/Workshop	Organising body
(1) Shri B. J. Pandya	All India Seminar on the "Role of People in the Prevention of Crime and Treatment to Offenders"	All India Crime Prevention Society, at Kanpur, during June, 1971
(2) Shri G. S. Vaswani	"Training Conference on Volunteers"	American Peace Corps in India, at Delhi, during June, 1971
(3) Prof. (Kum.) I. M. Patel and Kum. Rekha Mukerjee	S. E. Asian Seminar on "Curriculum Development and Teaching Methods"	International Association of Schools of Social Work and Association of Schools of Social Work in India, at Bombay, during November, 1971.

Staff Member	Seminar/Conference/Workshop	Organising body
(4) Kum. Jyoti Barot	(i) Seminar on "Population Education of Parent Teacher Association"	Central Institute of Research and Training in Public Co-operation in collaboration with National Parent Teacher Association of India, at Delhi, during November, 1971
	(ii) All India Seminar on "The Indian Family in the Change and Challenges of the 70's."	Indian Social Institute, at Delhi, during November/December, 1971.

6. Faculty Union Activities

The Union organised various programmes—entertainment, sports, welcome and farewell functions—during the year.

7. Library

(1) Acquisition Notes :

(a) Books :

The Faculty has a separate library. This year a grant of Rs. 5000/- was received from the University for books and Rs. 1500/- for periodicals.

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

	Books (including bound periodicals)	Pamphlets	Total value in Rupees
(1) Number at the beginning of the year	7609	2550	76,299-86
(2) Number added during the year	447	—	5,988-81
(3) Number written off	—	—	—
(4) Number remaining at the end of the year	8056	2550	82,288-67

(b) Periodicals :

The total number of periodicals subscribed to by the library during the year stood at 40 and 262 Bound periodicals were added during the year. An amount of Rs. 1500-00 was spent on subscription to periodicals

(2) 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 Saturdays.

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	7
(3) Average number of books issued	75
(4) Average number of books issued per day for reference	50

8. Visitors :

<i>Name of the Visitor</i>	<i>Date of Visit</i>
(1) Dr. Srivastav, Asian Institute of Planning, New Delhi	18-6-1971
(2) Shri M. C. Nanavatty, Social Welfare Adviser, Government of India	20-7-1971
(3) Dr. Francis Mulem, Editor, International Psychologist, Expert on Psychology	4-10-1971
(4) Prof. Sugata Dasgupta, Joint Director, Gandhian Institute, Varanasi	9-11-1971 to 11-11-1971
(5) Dr. Katherine A. Kandall, Secretary General, International School of Social Work, New York	14-11-1971 to 16-11-1971
(6) Dr. N. V. Tirth, Professor of Education, Mysore	24-11-1971
(7) Shri R. G. Srivastava, Director, CIRTPC, New Delhi	12-1-1972
(8) Dr. Subhashchandra, CIRT For Public Co-operation, New Delhi	7-2-1972
(9) Justice M. P. Thakkar, Gujarat High Court, Ahmedabad	13-2-1972
(10) Mr. N. Parikh, Labour Economist, Public Service Alliance of Canada, Ottawa	20-3-1972 and 21-3-1972

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

The Institute has a temporary staff consisting of 1 Reader, 3 Lecturers, 7 Assistant Lecturers, 2 Part-time Teachers, 5 Class III and 12 Class IV employees.

The following Training Courses were organised during the year:

	<i>Duration</i>	<i>Number of persons trained</i>	
		<i>Men</i>	<i>Women</i>
(1) Social Welfare Training:			
(a) Orientation in F. and C. Welfare for Project Teams	3 months (3 courses)	—	106
(2) Panchayati Raj Training:			
(a) Pre-Service Basic Training for V. P. Secretaries	6 months (1 course)	34	—
(b) Refresher Courses for V. P. Secretaries	3 weeks (2 courses)	74	—

CHAPTER XVII—FACULTY OF LAW

1. Courses of Studies

The Faculty of Law imparts instruction for the following courses:

- (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).

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.

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 Students	Women Students	Total
(1) <i>Degree Courses:</i>			
1st LL.B. (General)	357	50	407
2nd LL.B. (General)	79	9	88
LL.B. (Special)	24	6	30
Total	460	65	525

Class	Men Students	Women Students	Total
(2) <i>Post-graduate Diploma Courses:</i>			
Diploma in Taxation Laws and Practice: (D.T.P.)	91	12	103
Diploma in Labour Laws and Practice: (D.L.P.)	50	7	57
Total	141	19	160
(3) <i>Post-graduate Degree Courses:</i>			
Jr. LL.M.	34	2	36
Sr. LL.M.	16	2	18
Total	50	4	54
(4) <i>Ph.D.</i>	2	—	2
Grand Total	653	88	741

3. Staff

During the year the staff of the Faculty consisted of 1 Professor, 1 Reader, 2 Lecturers, 9 Part-time Professors, 2 Visiting Professors, 4 Class III and 4 Class IV employees.

4. Professional Growth of the Staff

- (1) Professor H. C. Dholakia published 'Baroda Law Review', a Journal of research articles on legal scholarship.
- (2) Professor H. C. Dholakia attended the following Seminars:

Name of the Seminar	Title of the Paper presented
(a) Seminar on Law and Minorities Protective Discrimination. at New Delhi	
(b) Seminar on Fundamental Rights at Jabalpur	Amending the Constitution: Golaknath and After.
(c) Seminar on Legal Education at Poona	(i) Qualifications and Recruitment of Teachers. (ii) Curriculum Reform in Legal Studies.

(3) Professor H. C. Dholakia delivered lectures on (i) Directive Principles and (ii) Rights to Property at the South Gujarat University, Surat.

(4) The Department of Law was selected by the University Grants Commission to prepare a book on 'Constitutional Law of India' under the supervision of Professor H. C. Dholakia. Shri S. N. Parikh, M.A., LL.M. was selected and appointed U.G.C. Fellow for the purpose.

5. Lectures

The Faculty invited the following experts to deliver lectures:

Expert	Subject
(1) Justice Shri B. K. Mehta, Judge, Gujarat High Court, Ahmedabad	Company Law.
(2) Justice Shri M. P. Thakkar, Judge, Gujarat High Court, Ahmedabad	Constitutional Law : Judicial Power under the Constitution (4 Lectures).
(3) Shri Girishbhai C. Patel, Principal, New Law College, Ahmedabad	(i) Analytical Positivism. (ii) Natural Law—Philosophy. (iii) Concept of Personality. (iv) Constitutional Amendments. (v) Sociological Jurisprudence, etc.
(4) Shri P. M. Kathiresan, Member, Bar Council of India	Role of the Bar Council in Legal Education.
(5) Shri A. N. Veeraraghavan, Secretary, Bar Council of India	The Advocates' Act.

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, 1972 stood at 154 in the Gaekwad Oriental Series and 600 other books.

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 'Svadhya' (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

Besides the above, as part of the scheme of co-ordination of the teaching of 14 Shastras of Sanskrit in the University, 6 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 they guided in all 3 Ph.D students in Sanskrit, Gujarati and Ancient Indian Culture and 36 M.A. students (Junior and Senior) in Sanskrit and Gujarati and 1 Sr. M.A. and 2 Jr. M.A. students in Prakrit. The Director continued to work as the Head of the Gujarati Department of the Faculty of Arts.

3. Staff :

During the year, the staff consisted of 1 Director (Senior Scale of Professors), 1 Deputy Director (Reader's grade), 5 Research Officers (Lecturers' grade), 10 Class III and 6 Class IV employees. The Ramayana Department had a staff of one Honorary General Editor and Head, 1 Assistant Editor, 12 Critical Apparatus Writers, and 2 Class III employees.

4. Professional Growth of the Staff

(a) Publications by the members of the Staff :

Sr. No.	Name of the Author	Title	Where published or read
(1)	Prof. B. J. Sandesara	(i) Chapter 11 : सामाजिक અને આધિક સ્થિતિ	Contributed for ગુજરાતનો રાજકીય અને સાંસ્કૃતિક ઇતિહાસ

Sr. No.	Name of the Author	Title	Where published or read
Chapter 12 :			
भाषा अने साहित्य			
Chapter 14 :			
धर्म संप्रदायो			
		being prepared by B. J. Institute of Learning & Research, Ahmedabad, with financial assistance from the Government of Gujarat.	
(ii)	सोलंकीयुगनुं सांस्कृतिक जीवन	Lecture delivered at the School of Social Sciences, Gujarat University, Ahmedabad. Published in 'Vidya' Journal of the Gujarat University, Vol. XIII, No. 2	
(iii)	संस्कृतनुं आधुनिक साहित्य—पंडिता क्षमा रावकृत सत्याग्रह गीता	बुद्धिप्रकाश, डिसेम्बर, १९७१	
(iv)	आगमप्रभाकर मुनिश्री पुण्यविजयजी	स्वाध्याय, ऑगस्ट, १९७१	
(v)	इतिहास शाने आधारे रचाय छे ?	अखंड आनंद, सप्टेम्बर, १९७१	
(vi)	कुंभारियानां मन्दिरों	गुजरात दीपोत्सवी अंक, ऑक्टो. १९७१	
(vii)	प्राचीन अने मध्यकालीन भारतना राजमार्गों	प्रवासी, ऑक्टो. नवे. १९७१	
(viii)	गुजरातमें रचित कतिपय दिगम्बर जैन ग्रन्थ	भारतीय पुरतत्वाचार्य जिनविजय अभिनन्दन ग्रन्थ, जयपुर	
(ix)	Contribution of Gujarat to Sanskrit Literature.	Paper contributed (on special invitation) to the International Sanskrit Conference, New Delhi, March, 1972.	
(x)	Sanskrit and Jainism.	do	
(xi)	प्राचीन भारतीय लोक-कथाओंको आकर ग्रन्थ—बृहत्कथा	अभिनव भारती, मार्च, १९७२.	
(xii)	डॉ. कनैयालाल सहल की सारस्वत सेवा	डॉ. कनैयालाल सहल-व्यक्ति और कृतित्व ग्रन्थ, राजस्थान, १९७२.	

Sr. No.	Name of the Author	Title	Where published or read
(2)	Dr. U. P. Shah	(i) Obituary—Agama Prabhakar Muni-shri Punyavijayaji	Journal of the Oriental Institute, Vol. 20, No. 4.
		(ii) अश्वावबोध अने शकुनिका विहारतीर्थना शिलापटो	गुजरात दीपोत्सवी अंक, ऑक्टो., १९७१.
		(iii) वामन अवतार (चित्रो साथे)	प्रवासी, दीपोत्सवी अंक, ऑक्टो.-नवे., १९७१.
		(iv) महाकवि कालिदासनी कृतिओनी सचित्र प्रती	स्वाध्याय दीपोत्सवी अंक, ऑक्टो., १९७१.
		(v) अनुभव विंदुओ	हिन्दुमिलन मन्दिर, दीपोत्सवी अंक, ऑक्टो., १९७१.
		(vi) आगमप्रभाकर जैन मुनिश्री पुण्यविजयजी	आजकल (हिन्दी), नवेम्बर, १९७१ अंक
		(vii) मध्यकालीन मा-रूगुंजर चित्रकलाके प्राचीन प्रमाण	श्री अगरचन्द्र नाहटा अभिनन्दन ग्रन्थ, फेब्रु., १९७२.
		(viii) व्यवहार शुद्धि—अकचितन	जनकल्याण फेब्रु. १९७२ अंक
		(ix) गुजरातना वे संस्कृत ग्रन्थकारों सचिव सलक्ष अने तेमना पुत्र सचिव महीप	स्वाध्याय, पु. ९, अंक २
		(x) Minister Salaksa & his son Minister Mahipa	Vimarsha, March, 1972
		(xi) Mahavira (Biography)	Chapter contributed to Encyclopaedia Britanica, U.S.A.
		(xii) The Jaina Yakshi Padmavati (Iconography)	Paper submitted to Smt. Indira Gandhi Felicitation Volume.
(3)	Shri J. S. Pade	Prasnavidya of Badrayana with the commentary of Bhattotpala	Journal of the Oriental Institute, Vol. 21, No. 3
(4)	Shri J. P. Thaker	(i) श्रीकृष्णनी रासलीला अक अध्ययन	Svadhyaaya, Vol. 8, No. 3
		(ii) Flora in Bharavi	Journal of the Oriental Institute, Vol. 20, No. 4

Sr. No.	Name of the Author	Title	Where published or read
		(iii) गुणज्ञ बनीए, नगुणा नदि	Janakalyana Special Issue, Feb. 1792
		(iv) Fauna in Bharavi	Journal of the Oriental Institute, Vol. 21, No. 3
(5)	Dr. S. D. Parekh	दयाराम एक अध्ययन—अवलोकन	Svadhyaaya, Vol. 8, No. 4
(6)	Shri P. H. Joshi	Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 20, No. 4 and Vol. 21, Nos. 123.

(b) Participation in Conferences, Seminars, Camps etc.

Name	Where Presented	Title of the Paper
(1) Prof. B. J. Sandesara	All India National Integration Camp for Teachers at Baroda on 31-5-1971.	A brief Account of Gujarati Language and Literature.
(2) Dr. U. P. Shah	International Sanskrit Conference, New Delhi, March, 1972	(i) Anekantavada in the Modern World. (ii) Some Non-Jaina Contributions to Sanskrit by Gujarati writers.
	Seminar on Jaina Arts held by the State Museum, Lucknow, January, 1972	Beginnings of Jain Art.

(c) Participation in Various Programmes :

(i) Prof. B. J. Sandesara worked as a member of the Bhavnagar University Committee appointed by the Government of Gujarat and the Committee submitted in December, 1971, its report containing recommendations on the form etc. and draft of the Act of the residential University to be established at Bhavnagar. He was nominated by the Government of Gujarat for a period of five years as a member of the Senate of the Sardar Patel University, Vallabh Vidyanagar. He continued to work as a member of the General Council of the Sahitya Akademi (National Academy of Letters), New Delhi and also as a member of Akademi's Advisory Committee for Gujarati. He also continued to work as a member of University Publications Board (युनिवर्सिटी ग्रंथनिर्माण बोर्ड) for the State of Gujarat.

He delivered a series of four lectures on selected topics of Indian Linguistics and Old Gujarati Literature at the Sardar Patel University, Vallabh Vidyanagar,

under the scheme of Exchange of Teachers sanctioned by the University Grants Commission in January, 1972. He gave two lectures under the scheme of Extension Lectures of Gujarat University at affiliated colleges. (i) Lecture on 'पाठणतुं संस्कृत, प्राकृत अने गुजराती साहित्य' at Arts and Science College, Patan and (ii) a lecture on "Science, Literature and Technology" at Dharmasinh Institute of Technology, Nadiad in January, 1972. On an invitation from the Vice-Chancellor of the Saurashtra University, he gave a lecture on 'गुजराती भाषानी विस्तरती क्षितिजे' to the post-graduate students of Dharmendrasinhaji Arts and Law College, Rajkot, in January, 1972.

(2) Dr. U. P. Shah, Deputy Director, worked as Secretary of Section III of the International Sanskrit Conference held at New Delhi in March, 1972. He also participated in a Conference of Jaina Scholars convened by the Jainological Research Society, New Delhi, during March, 1972. He continued to work as Honorary Editor of the Journal of the Indian Society of Oriental Art for the year under report.

(3) Shri P. H. Joshi, Research Officer, was deputed to Delhi with exhibits to be displayed at the Exhibition arranged by the National Museum, New Delhi, on the occasion of the International Sanskrit Conference held from 26th to 31st March, 1972.

5. Manuscript Section

This Section has already a collection of 25,406 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, 250 were added during the year, out of which 204 were purchased and 46 were received as gift from (i) Smt. Dakshababen C. Mehta of Baroda (2), (ii) Shri Balubhai D. Bhatt of Rajpipla, (2) (iii) Deputy Librarian (Smt. Hansa Mehat Library) of Baroda (1) and (iv) Shri P. Kunjanni Nambiar of Lakkidi, Kerala (41).

During the year, 87 manuscripts were lent out to other Institutions, 9 to local scholars and 515 were issued for work on the premises of the Institute, while 3 manuscripts were borrowed from outside.

6 Printed Book Section

(1) Books :

This year the Library received a grant of Rs. 9,000/- for the Printed Book Section and Rs. 700/- for Ramayana Department from the University. The grants were 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 in the beginning of the year	33,432	3,27,182-55
Number added during the year	713	8,998-91
Total :	34,145	3,36,181-46

Out of the total number of books added during the year, 307 books were purchased at a cost of Rs. 8,998-91 and 406 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 154 volumes have been published under this series. The following works were printed during the year :

- | | |
|----------------------------------------------------|---------------------------------------|
| (i) Kiranavali by Dr. J. S. Jetly | } Printed by Photo-
offset method. |
| (ii) Rupakasatakam by late Shri C. D. Dalal | |
| (iii) Nispannayogavali by late Dr. B. Bhattacharya | |

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

- (i) Krtiyakalpataru (Pratisthakanda) edited by Shri K. V. Rangaswami Aiyangar (pp. 1-24 printed.)
- (ii) Pancharatra Bibliography (pp. 1-320 printed)
- (iii) Satyasiddhi (pp. 1-280 printed)
- (iv) Agamapramanya (pp. 1-112 printed)
- (v) An Arabic History of Gujarat, Vol. II (pp. 476-506 printed)
- (vi) Chhakkamuvaeso (pp. 1-360 printed)

The University Grants Commission has sanctioned a sum of Rs. 90,000/- (50% UGC and 50% State Government) during the IVth Plan Period.

8 **Translation Branch**

The following works are in progress during the year in this branch :

- (1) *Shri Sayaji Sahityamala* :
- | | |
|------------------------------------|--------------------------|
| (i) चरकनो स्वाध्याय | : Shri Bapalal G. Vaidya |
| (ii) अखो अने मध्यकालीन सन्तपरम्परा | : Dr. Y. J. Tripathi |
| (iii) श्रीमद् भागवत, भाग २ | : Late Shri N. A. Pandya |
- (2) *Shri Sayaji Balajnanamala* :
- | | |
|-------------|-----------------------|
| आकाशना दीवा | : Shri Rajnikant Modi |
|-------------|-----------------------|

9. **Ramayana Department**

(a) *Editorial Section* :

- (1) Uttarakanda (Ed. Dr. U. P. Shah)
- (i) Sargas 28 to 85 constituted.
- (ii) PP. 1 to 216 (Sarga 31) printed.
- (iii) Press copy —Sargas 32 to 55 was sent to the press.

(iv) Press copy Sargas 56 to 60 prepared.

(v) Rough copy of the Critical Apparatus of Sargas 61 to 85 prepared.

(b) *Collation Work* :

- (i) M₁₁ Uttarakanda Sargas 1 to 111
- (ii) M₁₂ Uttarakanda Sargas 1 to 111.
- (iii) T₄ Uttarakanda Sargas 1 to 53.
- (iv) T_{4A} Uttarakanda Sargas 53 to 111.

(c) *Indexing* :

Indexing of quarter verses of the Critical Edition of the Ramayana was continued and nearly 1500 cards were prepared during this year thus making a total of 1,33,674 cards prepared at the end of March, 1972.

10. **Journal of the Oriental Institute**

During the year Vol. 20, nos. 3 and 4 and Vol., 21 nos. 1 and 2 were published. 130 subscribers were registered during the year for Vol. 20 and 213 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and also includes studied papers on Ramayana and allied topics concerning the epics and puranas.

11. **Gujarati Quarterly Journal 'Svadhya'**

Nos. 3 and 4 of Vol. 8 and nos. 1 and 2 of Vol. 9 of the Gujarati Quarterly 'Svadhya' were published. 131 subscribers were registered during year for Vol. 8 and 33 copies were sent on exchange basis.

12. **Foreign Scholars**

(1) Dr. Michael Meister of Fogg Art Museum, Harvard, Cambridge, Mass., U.S.A., associated himself with the Oriental Institute, under the supervision and guidance of Dr. U. P. Shah, during his stay in India, for doing further research work on art and architecture of India, especially of Rajasthan (under Gurjara-Pratihara rule).

(2) Professor Dr. Ernest Bender, Professor of Indo-Aryan Languages and Literature at the University of Pennsylvania, Philadelphia, U.S.A., visited the Institute for research work and for selecting Old Gujarati and other Manuscripts. He has been microfilming these during his visits to Baroda.

(3) Mrs. Marilyn Leese of the University of Michigan, Ann Arbor sought guidance of Dr. U. P. Shah for her study on Kanheri Caves.

13. **Visitors**

Sr. No.	Name of Visitor	Date of Visit
(1)	Miss M. Tiffen, London, England	9-6-1971
(2)	Mr. Asko Parpola, Ph.D. Research Fellow, The Scandinavian Institute of Asian Studies, Kejsersgade 2, Denmark	24-7-1971

Sr. No.	Name of the Visitor	Date of visit
(3)	Professor Robert I. Crane Syracuse University, Syracuse, U.S.A.	27-9-1971
(4)	Prof. Dr. Satyavrat, Professor & Head, Department of Sanskrit, University of Delhi, Delhi-7.	20-1-1972
(5)	Dr. H. V. Trivedi, Retired Deputy Director of Archaeology and Museum, Indore.	24-1-1972

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.) (Vocal) and Instrumental Music (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

Year/Class	Boys	Girls	Total
(1) Diploma Courses:			
1st Year	134	110	244
2nd Year	59	70	129
3rd Year	30	49	79
4th Year	22	34	56
5th Year	21	19	40
	<hr/>	<hr/>	<hr/>
Non-Collegiate	266	282	548
	12	10	22
Total	278	292	570
(2) Degree Courses:			
1st Year	13	9	22
2nd Year	5	6	11
3rd Year	8	8	16
4th Year	4	10	14
	<hr/>	<hr/>	<hr/>
Non-Collegiate	30	33	63
	—	3	3
Total	30	36	66

Year/Class	Boys	Girls	Total
(3) Post-graduate Degree Courses:			
Jr. M.Mus.	2	2	4
Sr. M.Mus.	1	4	5
Total	3	6	9
(4) Ph.D.	3	2	5
Grand Total	314	336	650

3. Staff

(a) Present Position:

The staff of the College consisted of 1 Professor, 1 Honorary Professor, 3 Readers, 10 Lecturers, 20 Assistant Lecturers, 1 Part-time Ustad, 5 Tabla Accompanists, 10 Class III and 10 Class IV employees.

(b) New appointments:

Shri A. B. Pathan, Assistant Lecturer in Sitar was upgraded and appointed Lecturer in Sitar from 28th June, 1971.

4. Professional Growth of the Staff

(a) Shri Shivkumar O. Shukla, Principal of the College was awarded a Credential—a letter of honour on 25th September, 1971 by the Saurashtra Sangeet Natya Academi as a mark of acknowledgement of his services in the field of Music.

5. Faculty Union Activities

(1) The College presented a purse of Rs. 6,000/- on 21st August, 1971 to the Vice-Chancellor for the institution of a gold medal (for the B.Mus. Dramatics examination) in the memory of the late Shri Jayanti Dalal, the well-known Gujarati playwright. The oil painting of late Shri Khurshedji Baliwala, a well-known actor and director was also unveiled by the Vice-Chancellor on this day.

(2) The Students' Association presented on 15th January, 1972 a cultural programme in the aid of the Soldiers Welfare Fund and collected Rs. 3,946/- which was later donated to the National Defence Fund.

(3) The teachers of the College unanimously decided on 28th January, 1972 to contribute one days' salary in aid of the National Defence Fund.

(4) Some students of the College, accompanied by Shri M. J. Bhatt, Head of the Dramatics Department presented plays and entertained the Jawans at Okha, Jamnagar and other Military Camps from 13th to 22nd February, 1972.

(5) The following students won awards in the fourth late Pandit Omkarnath Music Competition:

Name of the student	Competition	Prize/award
(a) Shri D. K. Bhonsale	Vocal Music	First prize of Rs. 1,000
(b) Shri R. Nikte	Tabla	First prize of Rs. 500
(c) Shri P. S. Nawathe	Tabla	Second prize of Rs. 250
(d) Shri R. V. Bapodra	Tabla	Third prize of Rs. 150
(e) Shri N. G. Ghanekar	Violin	Second prize of Rs. 250
(f) Shri H. S. Mistry	Sitar	Third prize of Rs. 150

(6) Kumari Balwanti Dixit, a student of Senior M.Mus. Class stood first in the All India Vocal Music Competition; Shri M. N. Gurav also won a prize in the All India Tabla Competition.

(7) During the year 1971-72, the following tutorial plays were presented:

Name of the Play	Name of the Playwright	Name of the Director	Date of presentation
(a) નેઈએ છે નેઈએ છે	Late Shri Jayanti Dalal	Shri R. P. Bhatt	20-8-1971
(b) જન્મદીપ	Shri Mulraj Chavada	Shri A. P. Chawla	21-8-1971 12-9-1971 23-9-1971 2-10-1971 14-11-1971
(c) શીંગડુ ફાટ્યા આસનું	Shri Vihang Mehta	Shri Hemchandra Bochara	11-9-1971 7-11-1971 8-11-1971 21-9-1971
(d) દૂત વાક્યમ	By Bhas and Translation by H. Wells	Miss Kenney	23, 24, 25, 11-1971
(e) ઝંખના	Shri Mansuri	Shri Ajay Vyas	28, 29, 30-9-1971
(f) ક્યારે વડાણુ વાસે	Shri Shrikant Trivedi	Shri Y. D. Kelkar	17, 29, 30, 31-1-1972
(g) કય દેવાની	Translation by Professor C. C. Mehta	Miss Kenney	15-1-1972
(h) અંગારા નહિ એલવાય	Shri Vajubhai Tank	Shri M. J. Bhatt	22, 23, 24, 25-2-1972
(i) Oedipus—the king	Translation	Shri R. P. Bhatt	2-3-1972
(j) હોહોલિકા	Professor C. C. Mehta	Shri M. J. Bhatt	

6. Library

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

	Number	Cost in Rs.
(1) Books (including back numbers of journals as on 1-4-1971)	6,344	51,139-45
(2) Books written off during the year	—	—
(3) Books added during the year	166	1,998-21
(4) Books as on 31-3-1972	6,510	53,137-66
(5) Journals subscribed during the year	30	961-61
(6) Amount spent on binding during the year	—	284-50

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

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

	Number
(1) Average number of students making use of the Library and/or the Reading-Room daily	160
(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	3,750
(4) Total number of books issued to teachers during the year	3,600

7. Museum, Laboratory, Studio, Workshop, etc.

Sr. No.	Item	Cost of equipment as on 1-4-1971	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1972
		Rs.	Rs.	Rs.	Rs.
(i)	Deadstock and equipment	1,54,838-69	—	3,941-10	1,58,779-79

8. Visitors

(1) An Expert Committee of the University Grants Commission visited the College on 11th August, 1971 and surveyed the facilities—Library of long play and commercial records and Tape Recording Library, instruments, etc.—available at the College.

(2) Kumari Lata Mangeshkar, the well-known Playback Singer visited the College on 13th November, 1971.

CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA

1. Courses of Studies

The institution offers the following courses of studies:

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

2. Number of Students

Number of students enrolled in various classes during the year 1971-72 was as under:

(1) Pratham Kaksha Certificate:

	Men	Women	Total
1st Year	29	1	30
2nd Year	17	—	17
3rd Year	10	3	13
Total	56	4	60

(2) Madhyam Kaksha (Visharad):

(i) Vyakaran Shastra:

1st Year	5	3	8
2nd Year	4	1	5
3rd Year	—	1	1
4th Year	—	—	—
5th Year	—	—	—

	Men	Women	Total
(ii) <i>Jyotish Shastra:</i>			
1st Year	16	1	17
2nd Year	2	—	2
3rd Year	—	1	1
4th Year	—	—	—
5th Year	—	—	—
Total	27	7	34
(3) <i>Uttam Kaksha Shastra:</i>			
(i) <i>Vyakaran Shastra:</i>			
1st Year	—	2	2
2nd Year	—	—	—
(ii) <i>Jyotish Shastra:</i>			
1st Year	2	—	2
2nd Year	—	—	—
(iii) <i>Dharma Shastra:</i>			
1st Year	1	—	1
2nd Year	1	—	1
(iv) <i>Sahitya Shastra:</i>			
1st Year	—	—	—
2nd Year	1	—	1
(v) <i>Shuddhadwaita Vedant:</i>			
1st Year	2	—	2
2nd Year	—	—	—
Total	7	2	9
(4) <i>Uttam Kaksha Acharya:</i>			
(i) <i>Vyakaran Shastra:</i>			
1st Year	—	—	—
2nd Year	1	—	1
(ii) <i>Dharma Shastra:</i>			
1st Year	1	—	1
2nd Year	—	—	—
(iii) <i>Sahitya Shastra:</i>			
1st Year	2	—	2
2nd Year	—	—	—
(iv) <i>Shuddhadwaita Vedant:</i>			
1st Year	1	—	1
2nd Year	2	—	2
Total	7	—	7
(5) <i>Shastri Voluntary English</i>	1	—	1
(6) <i>Vachasapati</i>	2	—	2
Grand Total	100	13	113

3. Staff

During the year under report the staff of the institution consisted of 1 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 figures show the 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	50
(2)	Average number of teachers making use of the library and the reading-room daily	15
(3)	Total number of books issued to the teachers during the year	250

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

Sr.No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals) as on 1-4-1971	5,000	18,995-08
(2)	Books written off during the year	—	—
(3)	Books added during the year	64	317-10
(4)	Books as on 31-3-1972	5,064	19,312-18
(5)	Journal subscribed during the year	7	84-00
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for library and reading-room during the year	—	401-10

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" 1971-72:

Sr.No.	Name of the Contributor	Title	Where Published
(1)	Shri H. C. Mehta, Principal, Sanskrit Mahavidyalaya, Baroda	राधाभक्ति: तस्या उद्गमो विकासश्च	Surabharati
(2)	Pandit Shri S. Y. Mishra, Pradhyapak in Vyakaran Shastra	सांख्यतत्त्वयिमर्शः	Surabharati

Sr.No.	Name of the Contributor	Title	Where Published
(3)	Pandit Shri L. J. Zha, Pradhyapak in Jyotish Shastra	शास्त्रीयचन्द्राङ्गतत्वविमर्शः	Surabharati
(4)	Shri J. R. Pathak, Adhyapak in Vyakaran Shastra	निरालम्बनवादः	Surabharati
(5)	Shri L. G. Shukla, Adhyapak in Vyakaran Shastra	भारतीयं युद्धशास्त्रम्	Surabharati
(6)	Pandit Shri Badarinath Shastri, Honorary Adhyapak in Shuddhadwaita Vedant	शुद्धाद्वैते कर्मज्ञानभक्तिनां समुच्चयो मुक्तिहेतुः	Surabharati

6. Literary, Cultural and Other Activities

Extension lectures under auspices of Sharadopasak Mandal:

Sr.No.	Subject	Date	Lecturer
(1)	भासस्य वैशिष्ट्यम्	21-8-1971	Shri M. R. Joshi
(2)	सुहृते मारुतः	18-9-1971	Shri M. C. Jani
(3)	विक्रमोर्वशीयम्-एकादृष्टिः	6-11-1971	Shri J. R. Pathak
(4)	परिभाषेन्दुशेखरेनामेशस्य वैशिष्ट्यम्	8-1-1972	Shri S. Y. Mishra

7. Extra Curricular Activities

(i) Elocution Competition:

Elocution Competition in Sanskrit was arranged on 3-2-1972 for the award of the Silver Medal of Shardapeeth Jagatguru Shankaracharya Shri Abhinav Sacchidanand Tirthaji Maharaj of Dwarka. Kumari Rasila V. Panchal won the medal.

8. Important Events

(1) The ninth issue of 'Surabharati', an annual publication of the Baroda Sanskrit Mahavidyalaya in Sanskrit was published.

(2) The students of Madhyama Kaksha, Uttam Kaksha and above have been permitted to enrol their ordinary membership of the M. S. University Union by paying the Union fee of Rs. 5 per annum under O. 60 from the year 1972-73 and onwards.

(3) A donation of Rs. 5,000 was received from Khushalchand Charity Trust, Baroda for the continuation of the course of Shukla Yajurved as a voluntary subject in the Prathama Kaksha course of the institution.

(4) A donation of Rs. 500 was received in two instalments from Sheth Hansraj Pragji Thakersey Education Trust, Bombay for the purpose of giving additional stipends to successful students in the terminal examination of the institution.

CHAPTER XXI—PREPARATORY UNIT—ARTS AND COMMERCE

1. Courses of Studies

The Unit provides Preparatory courses of one-year 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/ Add. English.
- (3) Social Studies,
- (4) General Science,
- (5) General English/Mathematics,
- (6) Indian History and Culture (For Arts)
Book-Keeping (For Commerce),
- (7) Second Language: Sanskrit/Pali/Persian/German/Geography/Commercial Geography (For Commerce).

2. Number of Students

The number of students enrolled in different classes during the year 1971-72 was as under:

Class	Men	Women	Total
(1) Preparatory Courses in Arts	436	284	720
(2) Preparatory Courses in Commerce	577	258	835
Total	1,013	542	1,555

3. Staff

There are on the staff of the Unit, a Head, 5 Class III and 6 Class IV employees, but no teachers. The teaching work is shared by the teachers of the Faculties of Arts, Commerce, Science and the Department of General Education. About 50 teachers from various departments participated in Preparatory teaching work.

4. Library

Under the University scheme of amalgamation of libraries of Institutions, the Library of this Unit was amalgamated with the main University Library. New books worth Rs. 1,000 approximately are being added every year. Books are selected particularly suited to the capacity of the Preparatory students, in English, Indian Language, Social Studies, Science and other subjects.

5. Other Activities

Orientation Programme for fresh students admitted to the Preparatory Arts and Commerce classes was arranged in the beginning of the academic year. The programme was arranged in groups on different important topics. Lectures on the importance of medical check-up and personal hygiene were also arranged. This was followed by the detailed medical examination of all Preparatory students.

CHAPTER XXII—PREPARATORY UNIT—SCIENCE

1. Courses of Study

The Preparatory Unit for Science provides instruction in Preparatory Science Course of one year duration.

2. Number of Students

During the year there were 888 men students and 178 women students. The total number of students was 1066.

3. Staff

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

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

4. Library

Special arrangements are made in the cellar of the General Education Building for all Preparatory Students.

5. Other Activities

(1) During the period 15-6-1971 to 19-6-1971, an Orientation Programme was arranged for the students. Seven senior teachers of the Faculties of Arts and Science delivered lectures in the Orientation Programme. The Deputy Librarian also addressed them about making the best use of the available library facilities.

(2) Lectures were also delivered on the importance of medical check up and personal hygiene.

(3) Under the scheme of Extra Mural Lecture Grants, Professor N. M. Bhatt, Director, Saurashtra University Colleges, Bhavnagar gave a lecture on the subject 'Nature of Mathematics' to the Preparatory Science students on 12th September, 1971.

(4) Students were given detailed information and guidance for the National Science Talent Search examination. 23 students appeared at the National Science Talent Search examination held on 2nd January, 1972.

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, Political Science and Hindi,
(b) B.A. (Minor) History, Gujarati, Hindi, Political Science, Psychology, Mathematics, Statistics, Ancient Indian Culture and History,
- (3) B.Com., Accounting and Auditing, Banking and Business Management.

2. Number of Students

Year/Class	Men	Women	Total No. of students
(1) Preparatory Arts	121	34	155
(2) Preparatory Science	40	1	41
(3) Preparatory Commerce	190	25	215
Total	351	60	411
(1) F.Y.B.A.	19	9	28
(2) S.Y.B.A.	34	11	45
(3) T.Y.B.A.	13	8	21
Total	66	28	94
(1) F.Y.B.Com.	116	5	121
(2) S.Y.B.Com.	87	4	91
(3) T.Y.B.Com.	90	8	98
Total	293	17	310
Grand Total	710	105	815

3. Staff

(a) Present Position:

During the year, the staff of the College consisted of 1 Principal, 18 Lecturers, 10 Part-time teachers, 1 Physical Instructor, 11 Class III and 12 Class IV employees.

4. Professional Growth of the Staff

Published Books and Brochures:

Name	Articles or Papers' Title	Name of the Journal wherein published with month of Publication
(a) Shri S. J. Panchal, Lecturer in Gujarati	Article on 'Munshini Kathasristi'	Granth, October, 1971.
(b) Dr. L. M. Desai, Lecturer in Gujarati	Book "Sadhu-Santo" (Translation of 'Saints and Sages' by Shri Swami Shivanand)	First Edition published by Shivanand Sahitya Prasar Samiti, Ahmedabad-6.
(c) Dr. R. D. Pathak with Dr. A. S. Nagar	Gujarat Ke Santon Ki Hindi Vani	Gurjar Bharati, Ahmedabad.

5. Library

The College library received from the University, grants amounting to Rs. 12,000 for books, Rs. 2,000 for periodicals and Rs. 1,000 for binding books and periodicals. The working hours of Library were from 11-00 a.m. to 5-30 p.m. on all working days and from 11-00 a.m. to 3-30 p.m. on Saturdays.

(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.	25
(3) Total number of books issued to the students during the year	19,000
(4) Total number of books issued to the teachers during the year	1,800

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

	Number	Cost in Rs.
(1) Books (including back number of Journals) as on 1-4-1971	5083	62,731-71
(2) Books written off during the year	—	—
(3) Books added during the year	849	11,998-97
(4) Books as on 31-3-1972	5932	74,730-68
(5) Journals subscribed during the year	63	1,970-02
(6) Amount spent on binding during the year	—	990-60
(7) Total amount spent for Library and/or Reading Room during the year	—	14,959-59

6. Museum, Laboratory, Studios, Workshop etc.

The following is the statement of the cost of equipments :

Sr. No.	Department	Cost of equipment as on 1-4-1971	Cost of equipment etc. written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1972
		Rs.	Rs.	Rs.	Rs.
(1)	Physics	12,130-47	—	—	12,130-47
(2)	Chemistry	10,888-66	—	71-00	10,959-66
(3)	Biology	2,968-90	—	—	2,968-90
		25,988-03	—	71-00	26,059-03

7. College/Union Activities

(1) The students organized various programmes such as Fun Fair, Shoe-Shining Drive etc. to raise funds for the National Defence Fund.

(2) Shri Bhogilal Gandhi was invited to give a talk on "બાંગલા દેશના સંદર્ભમાં ભારતની સમસ્યાઓ" on 23rd November, 1971.

(3) The College Magazine 'Spandan' published for the first time in May, 1971 was adjudged as one of the best among the All India College Magazines Exhibition and competition arranged by Government College, Dansa (Rajasthan).

(4) The students and the staff of the College carried out a project on 'Socio-Economic Survey of the Padra area' entrusted to them by the Government of Gujarat.

CHAPTER XXIV—POLYTECHNIC

1. Courses of Studies

The Polytechnic offers the following courses:

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

2. Number of Students

(A) Regular Diploma Courses:

	Men	Women	Total
(1) Civil Engineering	163	—	163
(2) Mechanical Engineering	385	—	385
(3) Electrical Engineering	277	—	277
Total	825	—	825

(B) State (Extended) Diploma Courses:

	Men	Women	Total
(1) Civil Engineering	37	—	37
(2) Mechanical Engineering	100	—	100
(3) Electrical Engineering	71	—	71
Total	208	—	208

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

	Men	Women	Total
(1) Technology of Processing of Oil and Gas	54	1	55
(2) Technology of Production of Synthetic Resins and Plastics	59	2	61
(3) Technology of Production of Fertilizers and Acids	54	1	55
Total	167	4	171

Grand Total	1,200	4	1,204
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3. Staff

(a) Present Position:

The staff of the Polytechnic as on 31-3-1972 consisted of 1 Principal, 2 Readers, 18 Lecturers, 36 Senior Instructors, 17 Junior Instructors, 7 Assistant Lecturers, 65 Class III and 46 Class IV employees.

(b) New Appointments:

Shri S. M. Moghe as Lecturer in Instrumentation Engineering from 13-1-1972.

(c) Teachers who left the University:

Sr. No.	Name of the Employee	Department and Designation	Date of Retirement/Resignation/Transfer
(1)	Shri C. J. Karamchandani	Lecturer in Mechanical Engineering	Retired from 1-5-1971
(2)	Shri R. M. Sheth	Lecturer in Mechanical Engineering	Resigned from 31-8-1971
(3)	Shri C. M. Amin	Lecturer in Electrical Engineering	Retired from 28-9-1971
(4)	Smt. S. Chakrawarthy	Lecturer in Chemical Engineering	Resigned from 21-1-1972

4. Faculty Union Activities

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

5. Library

(a) Books:

Books were purchased from the recurring grant of Rs. 15,000. 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	13,434	1,96,729-75
(2) Number added during the year	1,056	14,996-84
(3) Number withdrawn from the record	55	566-75
(4) Number remaining at the end of the year	14,435	2,11,159-84

(b) *Periodicals:*

During this year, the library subscribed to 70 periodicals. The total amount spent for the subscription of periodicals was Rs. 4,000/- and amount spent for binding Rs. 552-90.

(c) *Circulation of Books, etc. :*(1) *Working Hours:*

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 Holidays of the University, while for the month of May and June the timings were 11-00 a.m. to 5-30 p.m.

(2) *Registration :*

The number of readers registered are as under:

(i) Students : 980

(ii) Teachers : 152

(3) *Statistics:*

Statistics for the use of library are given below:

(i) Daily average number of readers making use of the Library 281

(ii) Daily average number of books issued to the readers for home-reading 68

6. *Museum, Laboratory, Studios, Workshops etc.*

The institution is fully equipped with nine laboratories and nine Workshops for imparting practical training to the students in various subjects.

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

Sr. No.	Item	Cost of equipment/ Machinery as on 1-4-1971	Cost of equipment/ Machinery etc. written off during the year	Cost of equipment/ Machinery etc. added during the year	Cost of equipment/ Machinery as on 31-3-1972
		Rs.	Rs.	Rs.	Rs.
(1)	Laboratories	6,56,162-58	—	1,975-60	6,58,138-18
(2)	Workshop	4,07,900-50	—	—	4,07,900-50

7. *Co-curricular Activities*(1) *Exhibition of Educational Film:*

The Polytechnic has one 16 mm Bell and Howell Sound Projector and one Epidiascope for screening films, film-strips and slides. The film shows were arranged to supplement class room teaching to promote the general knowledge of students. In all about nine film shows were arranged during the year under the Audio Visual Programme.

(2) *Co-operative Store:*

The working of the store was started jointly with the Faculty of Technology and Engineering.

CHAPTER XXV—SHRIMATI HANSA MEHTA LIBRARY

1. Acquisition Notes

(1) Books:

The grants sanctioned by University Grants Commission for the Fourth Five Year Plan period are being utilized. This year special grant of Rs. 25,000 was sanctioned by the University Grants Commission, fifty percent of which was utilized during the year and the balance will be utilized within the rest of the plan period.

The Library received as usual a grant of Rs. 40,000/- from the University for purchase of books and periodicals and the same has been fully utilized

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

Institution	Number of Books
Smt. Hansa Mehta Library (which includes books for the Faculties of Arts, Sciences, Education and Psychology, Commerce, Law, Home Science and the Department of Museology)	7,744
General Education Centre & Preparatory Unit—Arts and Commerce.	66
Faculty of Technology and Engineering	2,207
Faculty of Fine Arts	70
Faculty of Social Work	447
College of Indian Music, Dance and Dramatics	167
Oriental Institute (Printed Section)	713
Polytechnic	1,056
Sanskrit Mahavidyalaya	64
Centre of Advanced Study in Education	1,420
M. K. Amin Arts and Science College and College of Commerce, Padra	849
Total	14,803

Out of these books, 1736 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 Periodicals	Pamphlets	Manuscripts	Maps, Charts, etc.	Total Value in Rs.
Number at the beginning of the year	2,43,952	30,737	15,637	248	789	44,46,629-91
Number added during the year	7,744	2,336	1,175	—	8	4,54,882-15
Number withdrawn from the records	—	—	415	—	—	—
Number remaining at the end of the year	2,51,696	33,073	16,397	248	797	49,01,512-06

(2) Periodicals :

941 periodicals and scholarly journals were subscribed to during the year. 2336 volumes of bound periodicals were added to the stock.

2. Cataloguing

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

(a) Books Classified and Catalogued

(1) New accessions to University Library	7,744
(2) New accessions to the Faculty Libraries	7,059
Total	14,803
(3) Bound periodicals catalogued	2,336

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

	For University Library	For Faculty Libraries	Total
(1) Cards typed	23,232	35,295	58,527
(2) Cards filed in the catalogue	23,232	35,295	58,527

3. Circulation of Books etc.

As usual, the working hours of the library for the whole academic year i.e. from April, 1971 to March, 1972 (except in the months of May and June) were 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 August 1971 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 and Science etc. This reading room accommodates 225 readers and contains all the prescribed and recommended books for the First year students. It remained open on Sundays and holidays.

To provide more reading facilities to the students the Cellar of General Education Building was converted into Reading Room for the Preparatory Arts, Commerce and Science students, from September, 1971. It remained open from 8-00 a.m. to 10-00 p.m. on all days including Sundays and holidays. It accommodates 200 readers and contains all the prescribed and recommended books for the Pre- paratory students.

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

(1) Post-graduate Students	1,297
(2) Undergraduate Students	6,424
(3) Research Scholars, Assistants and Fellows	81
(4) University Teachers	650
(5) Others	560
Total	9,012

The statistics of the use of library are given below :

(1) Daily average number of readers visiting the library	2,100
(2) Daily average number of readers visiting the reading-room of the Central Hall of the Baroda College Building	250
(3) Daily average number of readers visiting the reading-room of the General Education Building (i. e. Cellar)	225
(4) Total number of books issued per day for reading	963
(i) Average number of books issued per day for home reading from general collection	309
(ii) Average number of books issued per day from curricular section	272
(iii) Average number of books issued per day from Central Hall	40
(iv) Average number of books issued per day from the Reading Room of the General Education (i. e. Cellar)	54
(v) Average number of books issued per day for reference	288
(5) Average number of books issued per reader in the year	31

4 Reference Section

(1) Reference Service to Readers :

Reference Service has been playing an important role in the academic life of the University. The Reference Section conducted a host 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 intended to acquaint and familiarise the new entrants to the working of various sections of the library. Various practices and procedures followed by the library, arrangement of books on 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 :

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

(i) Role of Books in our Lives, (ii) Vocational Guidance, (iii) Photographs of Indo-Pak War, (iv) Use of Books in Libraries, (v) U.N. Day, (vi) Universal Declaration of Human Rights and (vii) War and Peace.

Besides the above, selected new books were displayed every week in the University Library.

(4) Bibliographical Activity :

Bibliographies on the following topics were compiled during the year :

(i) Aims of Education (ii) Adult Education (iii) War and Peace, (iv) Voting and (v) Plays in English by Indian Dramatists.

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

(i) A special exhibition of books on the role that the books and libraries can play in the development of the nation was arranged.

(ii) A seminar of school librarians was arranged in the library during which many problems of school libraries were discussed and solutions were suggested.

(7) Theses and Dissertation :

(i) The Reference Section published the descriptive list of Ph.D. theses received in the library from January, 1971 to December, 1971.

(ii) During the year 825 readers consulted the theses and dissertations.

(8) Extension Services :

Under the Extension Services Programme of the United States Information Service, Bombay this library received 486 books on loan basis. These books were kept on the open shelves in the Reading Room for the use of readers. A bibliography of these books was prepared and copies of the bibliography were circulated among several associations viz; Lions Club, Rotary Club, Junior Chambers and others located in Baroda so that these books might be utilised by their members.

5 Teaching of Library Science :

Twenty students including one ex-student appeared at the Bachelor of Library Science Examination; all came out successful—eight in first class, ten in second class and two in pass class.

CHAPTER XXVI—THE MAHARAJA SAYAJIRAO UNIVERSITY
OF BARODA PRESS

1. Staff

During the year, the staff of the Press consisted of Manager, a Deputy Manager, a Senior Clerk Accounts-cum-Store-keeper, one Head Proof-Reader, one Senior Proof-Reader, one Junior Proof-Reader and a Clerk. There were 41 permanent workers in the Press.

2. Machinery

The Press has machinery worth Rs. 3,21,099 including machine worth Rs. 1,19,350 purchased from the grants of the University Grants Commission and the Government of Gujarat.

3. Printing Activities

During the year 1,196 plus 254 examination papers were printed under conditions of secrecy for the University Examinations. The Press also printed Syndicate and Senate proceedings, Details of Establishment, Annual Accounts, Budget Estimates, Questionnaires, Magazines, Pamphlets, Certificates, General Forms, Prospectus, Souvenirs, etc. of the Faculties and Institutions. The University Press has been working purely as a service department from April, 1967.

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

<i>Name of the Book</i>	<i>Publisher</i>
(1) Tenancy Abolition and the Emerging Pattern in Gujarat	Department of Agricultural Economics, Faculty of Arts
(2) Bhalan Ek Adhyayan	Department of Gujarati, Faculty of Arts
(3) Statistical Summary of Medical Examination Reports—1968-69	Statistics Department, Faculty of Science
(4) Need for an Operational Programme of Population Education in our Schools	Faculty of Education and Psychology
(5) Co-operative Courses in Engineering Education	Faculty of Technology and Engineering
(6) Panch Dashi Tatparya	Oriental Institute
(7) Apani Kavita Samruddhi	Oriental Institute
(8) Kirnavali of Udayanacarya	Oriental Institute
(9) Roopak Shatakam	Oriental Institute

Name of the Book	Publisher
(10) Nispanayogavali	Oriental Institute
(11) Ramayana Critical Edition Vol. VI Yuddhakanda	Ramayana Department
(12) N.C.C. Day Brochure 1971	N.C.C.H.Q.
(13) Spining, Weaving and Processing Machinery Maintenance in Textile Mills	TAIRO
(14) Chalcolithic Navdatoli Report	M. S. University of Baroda
(15) Statistical Tables	M. S. University of Baroda, Examination Section
(16) Twenty-Seond Annual Report—1970-71	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, (3) The Journal of Animal Morphology and Physiology (Half yearly), (4) The Education and Psychology Review (Quarterly), (5) Swadhyaya (Quarterly), (6) PAVO (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 Faculties, Institutions and the University Office. It has a staff of one Senior Clerk, one Stationery Clerk, one Riksha Driver-cum-Stationery Distributor and one Helper. During the year, stationery worth Rs. 2,01,796 was purchased and stationery worth Rs. 2,10,975 was distributed.

5. University Publication Sales Unit

This Unit is under the control and supervision of the University Press Manager. The establishment consists of a Senior Clerk, a Clerk and one door work assistant/attendant. It is working as the book-shop for University publications. The total sales during the year were Rs. 66,600.

CHAPTER XXVII—THE MAHARAJA SARAJIRAO UNIVERSITY UNION

1. Executive Committee

For the academic year 1971-72 Professor V. V. Mody and Professor R. M. Dave continued respectively as President and Treasurer of the Union.

General elections for the Vice-President, General Secretary and Faculty Representatives were held on 7th July, 1971. Shri Tulsi Majmundar was elected Vice-President and Shri Jagdish G. Patel, General Secretary. Thirty Faculty Representatives representing various Faculties and Institutions were 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 Sabnis | Educationist |

The first meeting of the Executive Committee was held on 16th July, 1971 for the election of sectional secretaries and allocation of various portfolios.

The following members were nominated by the Executive Committee on various boards of the University:

- | | |
|------------------------------------------|---------------------------------|
| (1) University Board of Sports | (i) Shri Amrish P. Patel |
| | (ii) Shri Tulsi C. Majmundar |
| (2) University Students' Welfare Board | (i) Shri Talib F. Chasmawala |
| | (ii) Shri Bharat S. Shah |
| | (iii) Shri Deepak N. Shah |
| (3) University Students' Aid Fund | (i) Shri Jagdish G. Patel |
| | (ii) Shri Hitendra R. Mehta |
| | (iii) Shri Tulsi C. Majmundar |

2. Brief Account of the various Committees

During the year, the sectional secretaries conducted various activities with enthusiasm and interest.

(1) Entertainment Committee:

On 29th August, 1971 a cultural programme was arranged at the General Education Auditorium in aid of Bangla Dēsh Relief Fund. Kavisammelan and Mushaira was arranged on 26th January, 1972 and a Qwwali Programme on 1st March, 1972.

(2) Indoor Games (Badminton and Table Tennis):

A team was sent for Open Gujarat Badminton Tournament held at Vidyanagar. Shri Prabodh Chatterji and Shri Ramesh Sharma represented the M. S. University of Baroda. A team was also sent to participate in Inter-University Table Tennis Tournament at Madurai. In Inter-Faculty Table Tennis Tournament, the Faculty of Technology and Engineering was the winner and the Faculty of Commerce was the runner up.

A Bridge Tournament was arranged for the first time on 5th and 8th February, 1972 in which a number of students and teachers participated.

(3) *Out Door Activities:*

(i) During the year, the Hiking Club sent a batch of 30 students for Basic Rock Climbing Course at Manali. They also undertook a tracking trip to Pavagadh.

(ii) A Treasure Hunt was held on 13th February, 1972.

(4) *Emester:*

The Emester, a fortnightly publication, brought its issues regularly during the year.

(5) *Debates and Discussions:*

The following Debates were arranged during the year:

Debate	Subject
(i) Shri N. B. Bhatt Extempore Trophy Debate in Gujarati	Extempore
(ii) Shri B. N. Majmundar Trophy Debate in Hindi	Extempore
(iii) Shri M. N. Wadia Trophy Debate in English	Informal Student-Teacher-Relationship is a must for effective University Education

The discussions on (i) "Legalisation of abortion amounts to devaluation of morals" and (ii) "A.T.K.T. is blessing or curse" were arranged during the year.

(6) *Public Relations:*

The following Discussions and Debates were arranged by this society during the year:

Sr. No.	Date	Topic
(i)	23-7-1971	Discussion with Captain Jadav, Divisional Controller Re: S. T. Problem.
(ii)	5-8-1971	Discussion with Deans of Faculties and Heads of Institutions, Teacher-in-charge and Executive Committee.
(iii)	12-9-1971	A Round Table Discussion with Personnel of City Police, S. T. and Executive Committee.
(iv)	24-11-1971	Bull Session.
(v)	22-1-1972	Brains Trust.
(vi)	17-2-1972	Debate on Women Profit out of Marriage.

3. Fun Fair

A fun fair was arranged in the campus of the M. S. University Union on 29th and 30th January, 1972. A large number of students and citizens attended the fun fair. A cheque of Rs. 10,319-50 was donated to the National Defence Fund out of the profit made from the fun fair.

4. Inter-Faculty Youth Festival

The 21st University Youth Festival was cancelled this year due to National emergency. A token amount of Rs. 5,000/- that would have been otherwise spent on the Youth Festival was donated to the National Defence Fund of the Prime Minister.

5. Visitors

- (1) Dr. Robert Beaver and Dr. Spencor, visited the Union on 28th July, 1971 and 12th November, 1971 respectively. They had interesting discussions with the students of the University and the members of the Union Executive Committee.
- (2) Flt. Lt. Nitin Junnarkar, recipient of Vir Chakra Award, was honoured by the M. S. University Union on 10th January, 1972.
- (3) Sarvodaya Padyatris visited the Union on 3rd February, 1972 and discussed with the students several issues pertaining to youth activities.

6. Important Events

A mile long Victory Parade to celebrate the Victory of India over Pakistan was organised by the Union. The parade was led by Vice-Chancellor and Pro-Vice-Chancellor of the University. Almost all teachers and students of the University participated.

CHAPTER XXVIII—GENERAL EDUCATION CENTRE

During the formative years of the University considerable thinking was done on the place of General Education in the academic programme of the University. It was felt that while making provision for specialized studies, a University should also ensure that every student, no matter what his speciality, has some understanding of the physical world in which he lives, has an appreciation of the complex social relationships by which he is surrounded and has a grasp of human values which can be developed through contact with Art, Literature of the Humanities. In other words, it was necessary to find a place for the elements of liberal education alongside highly specialised studies.

To this end, the University accepted the principle that General Education should be an important complement to specialisation, and from 1953 a programme of General Education lectures and discussions was arranged for the students of the Arts, Science and Commerce degree classes. From June, 1957 this was extended to the Preparatory classes and the First and Second Year Degree classes in Arts, Science, Commerce, Fine Arts and Home Science as well as the Pre-Medical year and the First Year of the Engineering. Till 1969-70 General Education was a required subject for students of the University but since then it has been made optional.

2. Organisation

The Advisory Committee which consists of the Vice-Chancellor, Pro-Vice-Chancellor, Deans and other Heads, meets at least twice a year and considers recommendations of the General Education Sub-Committees on Humanities, Social Sciences and Natural Sciences. The Sub-committees meet as often as necessary and consider problems of revising the syllabi in their own fields, recommend reading material and teaching arrangements for the General Education courses in various Faculties.

3. Building and Equipment

Classes meet in the General Education Centre. The Centre constructed and equipped with the Ford Foundation grant of \$ 4,30,000 has been in existence from June, 1963.

4. Students under the programme

The General Education Programme was organised this year for the Faculties of Arts, Commerce, Science (including Pre-Medical), Home Science, Fine Arts and Technology and Engineering. The programme in each of these Faculties was offered to the first and second year of the Three Year Degree Course.

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 differed from Faculty to Faculty and from Class to Class.

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. In addition to the nucleus staff, 11 teachers from the Departments of Archaeology, Economics, History, Political Science and Psychology participated in the teaching work of the General Education Programme of this year.

7. Library

The Centre has a separate library of its own. It has a stock of 2220 books of the value of Rs. 15,200-26. 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 XXIX—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 boy students in rented buildings and another 200 boy students in University owned buildings. There was no hostel accommodation for girl students. At the end of the year 1971-72 there were 11 Halls for boys and 4 Halls for girl students. Two more Halls for boys are under construction. Out of these two Halls, one is likely to be ready for occupation by June, 1972. 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 strong demand from students for residential accommodation in the University Halls of Residence. In order that the students may not be put to difficulties for searching accommodation in private houses in the city where the rents are exorbitant and facilities comparatively poor, the University had to continue the practice of admitting 3 students in most of the rooms this year also.

At the end of the year under report 2,313 boy students 854 girl students were in residence in different Halls as against 2,225 boy students and 818 girl students at the end of the previous year. A 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. Considering the residence facility as part of student service to help the Chief Warden a separate Office known as Warden Committee Office is working under him. The Office has a staff of 5 administrative, 4 technical and 2 class IV employees.

There was a Central Committee under the Chairmanship of the Chief Warden. There were three Sub-Committee to look after Food, Sports and Entertainment separately. In addition there were three Committees—Standing Committee, Purchase Committee and Maintenance Committee—to help the Chief Warden in the respective kind of work.

Apart from the above 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 take

active interest in nearly all the matters pertaining to the affairs of the hall; only in matters pertaining to finance, the Warden only is the deciding authority. The major event in the year was the war with Pakistan. The residents of the Hall responded to all the calls in the most fitting manner. They collected about Rs. 8,300 towards the National Defence Fund.

During the year Shri C. C. Shah vacated the Office of Chief Warden and Shri A. G. Patel took over. Shri C. J. Shah ceased to be Warden. Sarvashri B. R. Misra, H. V. Bhavnani and K. M. Sharma were the new Wardens appointed during the year.

2. University Health Centre

The staff of the Health Centre consisted of 1 Medical Officer, 2 Honorary Physicians, 1 Honorary Surgeon, 1 Honorary Lady Gynaecologist, 1 Part-time Lady Doctor, 1 Nurse, 3 Class III and 3 Class IV employees.

Hostels were visited every month twice, once pre-informed and once surprise for inspecting maintenance of sanitation and hygiene in both hostels and kitchens.

The Health Centre provides preventive and curative services for the students, members of the staff and their families.

The new entrants were given a Medical check up by the Medical Inspection Board in S.S.G. Hospital. Out of the total 4,283 students scheduled for Medical check up, 3,625 (84.63%) reported. Out of total 3,625 examined, 1,625 (44.82%) were recommended follow up treatment to be taken either from the Health Centre, specialists of the S.S.G. Hospital or the 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 1,175 (72.30%) students. On miniature chest X-ray examination of the students during the Medical check-up, 76 students were found suspicious of T.B. and called at the Health Centre for X-ray and Laboratory investigation. Out of these 76 students 3 students were found suffering from T.B. and sent to T.B. Hospital for treatment. They were subsequently found improving.

227 mess servants were examined in each hall of residence separately. The Mag Sulph powder was supplied to all the mess servants, for stool test. Out of 227 mess servants 44 were advised to cut their finger nails short, 3 were found suspicious of heart diseases, 1 was advised to get screening, 7 were having Anemia and 2 having Pyoderma.

The total attendance of the cases at the Health Centre Clinic was 32,571 (21,807 were students and 10,764 were the members of the staff and their families). The average daily attendance was 90.20.

The total number of Laboratory investigations were 692, and of fluroscopy examination 579 and X-ray film 128.

A Family Planning Centre is started in the Health Centre. One Part-time Surgeon, one part-time Lady Doctor and 2 Family Planning Welfare Workers (one male and one female) are working in Family Planning Centre of Government. 47 vasectomy operations and 11 tubecomy operations were done. 4 loops were inserted. 350 persons were advised for family planning. 350 condoms (Nirodh) were supplied to them.

3. Physical Education Department

(1) Staff:

The staff consisted of 1 Director, 2 Senior Physical Instructors, 5 Physical Instructors, 3 Swimming Trainers, 1 Boating Trainer and 1 Clerk.

(2) Physical Training:

Physical Training was imparted to 2,299 men students and 1,380 women students. Total number of students (Men and Women) was 3,679.

(3) Major Games:

Cricket, Tennis, Hockey (Men and Women), Foot-Ball, Throw-Ball, Net-Ball, Basket-Ball (Men and Women), Kho-Kho (Men and Women), Kabaddi, Athletic (Men and Women), Shooting, Weight Lifting, Cycling etc. were organised and conducted.

In Swimming 443 (+ 459 guests) members and in Boating 54 (Men) and 4 (Women) students were imparted training.

(4) Training to University Teams:

The training for various University teams was organised and conducted in the respective games. Coaches were also appointed to give special training in Cricket, Hockey (Men and Women), Kho-Kho (Men and Women), Tennis and Volleyball.

(5) Tournaments and Competitions:

The University Cricket team participated in Zaveri League Tournament.

(6) Participation in State Championships:

(i) Basketball (Men and Women) teams participated in Gujarat State Championship held at Bhavnagar.

(ii) Hockey (Women) team participated in Gujarat State Women Hockey Championship held at Baroda.

(iii) Our athletes (Men and Women) participated in State Olympic Meet held at Rajpipla and following are the positions:

Shri Christian H. David	400 Mts.	First
Shri Surya Shrestha	100 Mts.	First
Kum. Mona G.	(a) Broad Jump	First
	(b) 80 Mts. Hurdles	Second
	(c) 100 Mts. Run.	First

Kum. Radha R.	(a)	80 Mts. Hurdles	Third
	(b)	100 Mts. Run	Second
Kum. Nandini		Discus Throw	First
Kum. Vatsala		Shot-put	First

(7) Inter-University Tournaments:

Game	Venue	Result	Remarks
(i) Shooting	Allahabad	Runner-up	—
(ii) Kho-Kho (Men)	Dharwar	Runner-up	Since five years
(iii) Kho-Kho (Women)	Baroda	Runner-up	—
(iv) Cricket	Udaipur	West Zone Runner-up	—
(v) Hockey (Men)	Ujjain	Lost in I round against Poona	Poona is runner-up
(vi) Hockey (Women)	Patiala	Lost in Second round against Punjabi	Punjabi is runner-up
(vii) Tennis (Men)	Tirupati	Lost in Ist round against Poona	—
(viii) Badminton (Men)	Vidyanagar	Lost in II round against Indore	—
(ix) Table Tennis (Men)	Nagarcoil	Lost in I round	—
(x) Table Tennis (Women)	Nagarcoil	Lost in I round	—
(xi) Basketball (Women)	Mysore	Lost in I round against Mysore	—
(xii) Volleyball (Men)	Bombay	Lost in I round	—
(xiii) Basket Ball (Men)	No tournament: Team was selected; could not participate		
(xiv) Swimming (Men and Women)	Jaipur	Two students qualified for finals	—
(xv) Athletics (Men and Women)	Jaipur	—	—

Under the auspices of the University, the All India Inter-University Kho-Kho (Women) tournament was organised and conducted on the University Sports Pavilion Grounds from 6th to 9th January, 1972. Twenty-three Universities sent their entries for the tournament, but only eighteen Universities participated.

Results:—Winners : Indore University

Runners-up : M. S. University of Baroda

(8) *Inter-Faculty Tournaments:*

Inter-Faculty Cricket, Tennis, Hockey (Men), Foot-Ball and Volleyball Tournaments were organised and conducted by the Officer-in-Charge and Physical Instructors.

<i>Tournaments</i>	<i>Winners</i>	<i>Runners-up</i>
(i) Football	Faculty of Commerce	Faculty of Technology and Engineering
(ii) Hockey	Faculty of Commerce	Faculty of Science
(iii) Volleyball	Faculty of Technology and Engineering	Faculty of Medicine
(iv) Cricket	Faculty of Technology and Engineering	Faculty of Commerce
(v) Tennis	Faculty of Technology and Engineering	Faculty of Medicine

(9) *Inter-Group Physical Education Training Tournaments:*

This year a special feature in the compulsory programme of Physical Education training classes was that, more and more games facilities were given to the students. Each of the groups was given a name of a patriot and INTER GROUP tournaments only for those who enrolled in these classes were organised in Football, Volleyball and Kabaddi for Men and Net Ball, Throwball and Kho-Kho for Women.

Eight men and eight women teams participated in these tournaments. Certificates were distributed to the winners and runners-up.

(10) *Annual Boating Competition:*

Individual Champion—1. Shri K. B. Bhavsar (Men Section)

2. Kum. Meghmala Rajeshirke (Women Section)

(Due to emergency and war, University Annual Sports—swimming, body building and inter-faculty basket ball—could not be organised).

(11) *Participation in National Championship:*

(a) Four members of the University Cricket team played for Baroda Cricket Association in the Ranji Trophy Cricket tournament.

(b) Two members of the Swimming team were selected to represent Gujarat State Swimming team in the National Championship held at Ahmedabad.

(c) Four men and four women students represented the University team in the Gujarat State Basket Ball team in the National Championship held at Cochin.

(d) In the 'B' Zone Basket Ball Championships for Men and Women held at Ujjain, eight women students and two men students were selected and included in the Gujarat State Basketball team.

(12) *Other Events:*

(a) Two of the University Kho-Kho players, Shri Ajit Thorat and Kum. Mangala Agashe, got Gujarat State Sports Scholarship of Rs. 50 p.m. each for one year from Government of Gujarat.

(b) Blazers were given to 22 University players as per old rules and to 18 players as per new rules.

(c) Shri Nandu Natekar, renowned player in Badminton and also good in Tennis was invited by the Tennis Club to give demonstration of Tennis game.

(d) In the summer of 1971, the Department organised All India Inter-University Coaching Camp of Cricket for 21 days; 25 players were selected from different Universities from the country.

4. *National Cadet Corps*

During the year under report the following NCC Units carried out their multifarious activities:

- (1) 3 Gujarat Battalion NCC.
- (2) 12 Gujarat Battalion NCC.
- (3) 5 Gujarat Girls Battalion NCC.
- (4) 1 Gujarat Comp. Tech. Regt. NCC.
- (5) 2 Gujarat Naval Unit NCC.
- (6) 1 Gujarat Air Sqdn. NCC.
- (7) 3 Gujarat Tech. Air Sqdn. NCC.

Strength:

The allotment of NCC Officers and Cadets enrolled is given below:

<i>NCC Unit</i>	<i>NCC Officers</i>	<i>NCC Cadets</i>
(1) 3 Gujarat Bn. N.C.C.	5	706
(2) 12 Gujarat Bn. N.C.C.	5	624
(3) 5 Gujarat Girls Bn. N.C.C.	2	303
(4) 1 Gujarat Comp. Tech. Regt. N.C.C.	3	337
(5) 2 Gujarat Naval Unit N.C.C.	2	183
(6) 1 Gujarat Air Sqdn. N.C.C.	2	180
(7) 3 Gujarat Tech. Air Sqdn. N.C.C.	1	114

Training of all the Units started in June/July, 1971 and terminated in February, 1972.

Annual Training Camps which were scheduled to be held in October/November, 1971 were cancelled owing to unforeseen reasons.

Camps/Courses:

The number of Cadets and Officers who attended various Camps/Courses is given below:

- (1) 3 Gujarat Bn. NCC
- 1 Cadet attended 79 Basic course at Himalayan Mountaineering Institute at Darjeeling.
 - 12 Cadets were attached to Regular Army Unit.
 - 2 Cadets attended Advance Leadership Course at Kalimpong.
 - 2 Cadets attended All India Summer Training Camp at Bangalore.
 - 1 Officer attended Pre-Commission Training Course at Kamptee.
 - 2 Officers attended Refresher Training Course at Kamptee.
 - 1 Cadet attended Advance Leadership Course at Sauni (Ranikhet).
- (2) 12 Gujarat Bn. NCC
- 1 Cadet attended Advance Leadership Course at Sauni (Ranikhet).
 - 1 Cadet attended Advance Leadership Course—Rock Climbing at Manali.
 - 2 Cadets attended Advance Leadership Course at Kurseong.
 - 1 Cadet attended All India Summer Training Camp at Bangalore.
 - 1 Cadet attended All India Summer Training Camp at Ootacamund.
 - 9 Cadets were attached to Regular Army Unit.
- (3) 5 Gujarat Girls NCC
- 9 Cadets attended Advance Leadership Course at Mereara.
 - 1 Cadet attended Mountaineering Course at Uttarakashi.
 - 1 Cadet attended Special All India Potential Course at Gwalior.

3 Officers and 60 Cadets attended Annual Training Camp at Chhota Udaipur.

10 Cadets attended Shooting Competition Camp at Sunav.

- (4) 2 Gujarat Naval Unit NCC
- 1 Officer attended Pre-Commission Course at INS Yendurathy.
 - 3 Cadets attended Advance Leadership Course (with Naval Bias) at Cochin.
 - 3 Cadets attended All India Summer Training Camp at Panchgani.
 - 7 Cadets attended INS Nau-Sainik Camp on Vishakhapatnam.
 - 2 Cadets were attached to INS Angre at Bombay.
 - 2 Cadets attended Sea Training at INS Khukri.
 - 1 Cadet attended 79 Basic Mountaineering Course at Darjeeling.
- (5) 1 Gujarat Comp. Tech. Regt. NCC
- 1 Cadet attended All India Summer Training Camp at Bangalore.
 - 5 Cadets were attached to Regular Unit.
 - 1 Cadet attended Advance Leadership Course at Ranikhet.
- (6) 1 Gujarat Air Sqdn. NCC
- 3 Cadets attended All India Summer Training Camp at Ootacamund.
 - 2 Cadets were attached to Air Force.
 - 1 Cadet attended Advance Leadership Course.
 - 1 Cadet attended Nav Sainik Camp.
 - 2 Cadets attended All India Summer Training Camp at Panchgani.
- (7) 3 Gujarat Tech. Air Sqdn. NCC
- 1 Cadet attended All India Summer Training Camp at Panchgani.
 - 1 Cadet attended All India Summer Training Camp at Bangalore.
 - 1 Cadet was attached at Air Force.

Certificate Examinations:

The Certificate Examinations were held in December, 1971 and February, 1972 and results are as under:

	' B ' / G — Part I		' C ' / G — Part II	
	Appeared	Passed	Appeared	Passed
(1) 3 Gujarat Bn. NCC	124	105	3	—
(2) 12 Gujarat Bn. NCC	144	107	4	2
(3) 1 Gujarat Comp. Tech. Regt. NCC	56	36	2	1
(4) 5 Gujarat Girls Bn. NCC	108	89	9	9
(5) 1 Gujarat Air Sqn. NCC	72	61	12	7
(6) 3 Gujarat Tech. Air Sqn. NCC	66	66	7	7
(7) 2 Gujarat Naval Unit NCC	12	9	7	7

Annual Day Functions:

N.C.C. Units held their Annual Day functions as under:

Unit	Date	Chief Guest
(1) 5 Gujarat Girls Bn. N.C.C.	16-2-1972	Dean, Faculty of Home Science
(2) 2 Gujarat Naval Unit N.C.C.	19-2-1972	Principal, Sharda Mandir High School

N.C.C. Day Celebration:

N.C.C. day was celebrated on 28th November, 1971. Parents were invited to witness the performance of the Cadets. The programme consisted of drill, bayonet fighting, demonstration of sports by various N.C.C. Units, flag-communication, bridge construction, casualties evacuation, platoon attach, mock battles etc.

5. National Service Scheme

There is a special Advisory Committee under the Chairmanship of the Pro-Vice-Chancellor to advise, plan and organise all activities under the National Service Scheme. The speciality of the N.S.S. Programme in this University is that the N.S.S. Units are not allotted to the Faculties/Institutions/Colleges but it is organized at the University level.

This year out of 1,518 students who opted 1,280 were selected for the N.S.S.

- The N.S.S. Units undertook the following Educational and Service Projects:
- (i) Audio Visual and Films Group Project: (Cleanliness and Health Education).
 - (ii) Mobile Library Group Project: (Book collection campaign and service to the hospitalised patients).
 - (iii) Survey Group Project: (Surveys on social problems).
 - (iv) Co-operative Society Group Project: (Service to milk distribution centres and Apna Bazar).
 - (v) Bulletin Group Project: (Placements in N.S.S. groups and release of news letters).
 - (vi) Literary Group Project: (Adult Education Programme and running literacy classes).
 - (vii) Cultural and Recreation Group Project: (Recreation and entertainment programmes).
 - (viii) Traffic Education Group Project: (Traffic training to N.S.S. volunteers and students of Secondary Schools).
 - (ix) Hobby Group Project: (Batik, Clay, Pottery, Paper maiche, etc.).
 - (x) Sports Group Project: (Training in various sports and service to play centres).
 - (xi) Reading and Writing Group Project: (Service to handicapped children, blind students and various benevolent institutions).
 - (xii) Construction Group Project: (Training camps at Ukai, manual projects, service as well as publication of materials on construction skills etc.).
 - (xiii) Friends Society Project: (' X ' -Ray plates, blood donation, preparation of magic chalk slicks, greeting cards, adoption of Family Friend, etc.).
 - (xiv) Civil Defence Group Project: (Flag selling campaign, Food collection drive, emergency duties, etc.).

The N.S.S. organised the following camps:

	Place	No. of Participants	Duration	Nature of work
(i)	Mobha Road	36 Students	10 days	Gazetteer study of 172 Villeges—Socio-economic life, Cultural development and Progress of Vakal Pradesh.
(ii)	(2 Camps)	6 Teachers		
(iii)	Bajuwa	36 Students 6 Teachers	10 days	—do—

	Place	No. of Participants	Duration	Nature of work
(iv)	Changsari— Bonda Gauhati—Assam	15 Students 1 Teacher	10 days	Bangla Desh Refugee Camp. Assisted in registration—Run reception Centres—Milk and Ration Distribution, etc.
(v)	Raipur— (Madhya Pradesh)	40 Students 2 Teachers	10 days	—do—
(vi)	Panchanuri— Gaya (Bihar)	40 Students 2 Teachers	10 days	—do—

The N.S.S. took a lead in relief work such as earth quake, flood and other calamities. The influx of refugees from Bangla Desh to India prompted the N.S.S. Volunteers to do something for them. They started planning campaigns like collecton of funds, collection of clothes and medicine and other useful items of daily necessity. In response to the call from the Government of India, the University sent its teams of volunteers to start relief work in Bangla Desh Refugee Camps. The services of the Volunteers of the M. S. University of Baroda were appreciated by the Government of India.

During and after the Indo-Pak war in December, 1971, the N.S.S. Volunteers initiated Civil Defence Work by accepting the responsibility of fund collection. They participated in emergency duties in batches at the Control Room of Baroda for Civil Defence duties. They motivated 233 students to donate their blood if required and prepared a group of students for training in First Aid. They organised a charity film-show, a variety entertainment programme and participated in the Fun Fair organised for the Welfare of Jawans and their families. They also organised a week long programme of gift collections in different areas of Baroda City. They contributed Rs. 15,000/- approximately to the Fund.

6. Students' Common Rooms

There are three Common Rooms for University students. Two Rooms are on the campus—one for men students and the other for women students. The third room generally known as Non-Resident Students' Centre is near the Faculty of Technology and Engineering. The women students' common room and the Non-Resident Students' Centre were built with financial assistance from the University Grants Commission and the State Government.

A cafeteria is attached to each of the three Common Rooms. There are facilities for indoor games such as carrom, draughts, chess, table tennis, etc. and reading material like daily newspapers, periodicals and a small collection

of books. Committees consisting of the members of the teaching staff look after the upkeep and arrangements of the rooms. The rooms are also used for meetings of the Students' Assciaton, socials, indoor games and tournaments.

7. Hobby Workshop

The M. S. University Hobby Workshop provided instructions to 198 students in various hobbies during 1971-72 as shown below:

Hobby	Number of Students
(i) Carpentry	20
(ii) Assembling electrical and electronic appliances	45
(iii) Music	60
(iv) Clay Modelling	13
(v) Photography	60
	Total 198

8. University Employment Information and Guidance Bureau

The Bureau gave individual guidance and supplied individual information to 1,229 students and guided 575 at the time of their registration. It organised 80 group guidance talks, on careers in Arts, Science, industries, etc.

Information about various courses and their employment potentiality was given to 1,955 students. The Bureau also conducted a course of Stenography (English) under the State Government Scheme of Relief to Educated Unemployed.

The Bureau functions under the joint auspices of the Government of Gujarat and the M. S. University. Its main functions are to provide employment information to alumni; to register post-graduates of all subjects and graduates of professional and technical branches of employment; to sponsor candidates to employment and to provide vocational and educational guidance to the students of the University.

The Bureau maintains a Career Information Room where information regarding courses open to students at various stages in their studies, as also information regarding the careers open to them on the completion of their studies is displayed in form of booklets and charts.

A meeting of the Advisory Committee of the Bureau was held on 10-1-1972 under the Chairmanship of the Vice-Chancellor Shri N. K. Vakil. Officers from industries like Gujarat State Fertilizer Company Federation of

Gujarat Mills and Industries, Punjab Steel and Rolling Mills, Bank of Baroda, Sarabhai Chemicals paid visit to the Bureau.

The following tables speak of the use students make of the Bureau:

Nature of Activity	No. of Students
(i) Registration	747
(ii) Submission	1,576
(iii) Placement	98
(iv) Individual Information	1,229
(v) Individual Guidance	10
(vi) Guidance at the time of Registration	575
(vii) Group Talks	80
(viii) Visitors	1,955

Appendix I
Statement showing the number of students in the academic year 1971-72

Sr. No.	Institution	*Post-graduate Courses		Degree Courses		Diploma Courses		Total		Grand Total 1971-72	Grand Total 1970-71	Grand Total 1969-70
		Men	Women	Men	Women	Men	Women	Men	Women			
1	Faculty of Arts	155	110	850	985	39	10	1044	1105	2149	1945	1892
2	Faculty of Science	260	87	845	366	10	2	1115	455	1570	1571	1515
3	Faculty of Education and Psychology	65	39	96	198	11	42	172	279	451	445	452
4	Faculty of Commerce	117	27	1901	393	9	1	2027	421	2448	2355	1832
5	Faculty of Medicine	59	40	577	81	—	—	636	121	757	746	690
6	Faculty of Technology and Engineering	96	—	2213	55	@246	—	2555	55	2610	2721	2736
7	Faculty of Fine Arts	11	3	57	41	@ 94	@ 11	162	55	217	200	188
8	Faculty of Home Science	2	77	1	682	—	22	3	781	784	675	644
9	Faculty of Social Work	53	40	—	—	—	—	53	40	93	75	75
10	Faculty of Law	193	23	460	65	—	—	653	88	741	626	549
11	Preparatory Unit—Arts and Commerce	—	—	1013	542	—	—	1013	542	1555	1488	1841
12	Preparatory Unit—Science	—	—	888	178	—	—	888	178	1066	1073	1042
13	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	710	105	—	—	710	105	815	648	614
14	College of Indian Music, Dance and Dramatics	6	8	30	33	—	—	36	41	£77	68	73
15	Baroda Sanskrit Mahavidyalaya	10	—	8	2	27	7	45	9	54	60	51
16	Polytechnic	—	—	—	—	1200	4	§1200	4	1204	1234	1117
TOTAL...		1,027	454	9,648	3,726	1,636	99	12,311	4,279	16,590	15,930	15,311

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

@ Includes 4 + 9 Post-Diploma men students and 5 women students.

£ Does not include 3 students who are non-collegiate.

§ Includes 208 men students of Extended Diploma Courses and 167 men and 4 women students of Model Diploma Courses.

Appendix II

Statement showing the number of Non-University Students in the year 1971-72

Institution	Men	Women	Total 1971-72	Total 1970-71	Total 1969-70
1	2	3	4	5	6
(A) Diploma Courses :					
(1) College of Indian Music, Dance and Dramatics	266	282	548	498	461
(B) Certificate Courses :					
(1) Faculty of Arts	288	13	301	408	95
(2) Faculty of Fine Arts	7	3	10	5	13
(3) Baroda Sanskrit Mahavidyalaya	56	4	60	55	56
(C) S.S.C. Courses :					
(1) University Experimental School	269	223	492	486	492
(D) Nursery Courses :					
(1) Chetan Balwadi	50	21	71	56	58
(2) Kindergarten	10	4	14	29	27
Total	946	550	1496	1537	1202

* Does not include non-collegiate 12 men students and 10 women students.

Appendix III

List of Degrees and Diplomas conferred at the Annual and Supplementary Convocation during the year 1971-72

Sr. No.	Degree/Diploma	Annual Convocation December 1971	Supplementary Convocation March 1972	Total
1	Ph.D. (Arts)	5	2	7
2	Ph.D. (Science)	10	5	15
3	Ph.D. (Education and Psychology)	1	1	2
4	Ph.D. (Medicine)	1	1	2
5	Ph.D. (Fine Arts)	1	1	2
6	Ph.D. (Home Science)	1	1	2
7	M.D.	2	7	9
8	M.S.	6	3	9
9	M.A.	118	—	118
10	Acharya	1	—	1
11	B.A.	357	34	391
12	Shastri	2	—	2
13	Bachelor of Library Science	8	—	18
14	M.Sc.	137	—	137
15	B.Sc.	251	33	284
16	M.Ed.	44	—	44
17	B.Ed.	156	—	156
18	M.Com.	19	—	19
19	B.Com.	485	60	545
20	Diploma in Banking	36	—	36
21	Diploma in Co-operation	5	—	5
22	M.Sc. (In Medical Subjects)	3	—	3
23	M.B.B.S.	33	80	113
24	D.O.	2	2	4
25	D.A.	1	2	3

Sr. No.	Degree/Diploma	Annual Convocation December 1971	Supplementary Convocation March 1972	Total
26	D.L. & O.	—	1	1
27	D.M.R.	—	4	4
28	D.C.H.	1	3	4
29	D.C.P.	2	1	3
30	D.G.O.	2	3	5
31	M.E.	10	24	34
32	B.E. (CME., Chem., Met. Electro.)	347	9	356
33	B. Text. (Engineering)	19	1	20
34	B. Text. (Technology)	32	1	33
35	B. Arch.	35	23	58
36	Dip. in Refrigeration & Air Conditioning	—	7	7
37	LL.M.	4	—	4
38	LL.B. (Special)	21	11	32
39	LL.B.	53	30	83
40	D.T.P.	21	—	21
41	D.L.P.	21	—	21
42	M.A. (Fine)	7	—	7
43	B.A. (Fine)	9	—	9
44	M.Mus.	3	—	3
45	B.Mus.	10	—	10
46	Diploma in Museology	6	—	6
47	M.Sc. (Home)	21	5	26
48	B.Sc. (Home)	88	13	101
49	Diploma in Nursery School Education	5	—	5
50	Diploma in Dietetics	7	—	7
51	M.S.W.	22	—	22
	Total	2441	376	2817

A Statement showing the number of teaching staff of various faculties and institutions as on 31st March, 1972

Faculty/Institution	Professors	Readers	Lecturers	Asstt. Lecturers, Senior/Junior Instructors	Honorary, Part Time, Research, and Others	Total
Arts	7	17	46	11	3	84
Science	13	26	65	67	—	171
Education and Psychology	4	4	16	3	13	40
Commerce	2	7	15	—	5	29
Technology and Engineering	19	33	68	83	—	203
Fine Arts	2	5	19	3	1	30
Home Science	3	6	20	16	3	48
Social Work	1	1	8	—	—	10
Law	1	1	2	—	11	15
Oriental Institute	1	1	5	—	—	7
College of Indian Music, Dance and Dramaties	1	3	10	20	2	36
Baroda Sanskrit Mahavidyalaya	—	1	12	—	2	15
Polytechnic	—	3	18	60	—	81
Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	1	18	1	10	30
Total	54	109	322	264	50	799

List of Students qualifying for the Ph.D. degree during the year 1971-72

Sr. No.	Name	Subject	Title of the Thesis
1	2	3	4
1	Shri B. N. Parmar	Archaeology	Critical and Cultural Edition of Srimala Purana
2	Kum. B. R. Dalal	Gujarati	Criticism of Fiction—Some fundamental problems
3	Shri H. P. Shukla	Hindi	हिन्दी के मानसतर प्रवधात्मक समकान्यों की भूमिका (संवत् १५०० वी. स.—१८०० वी. स.) रघुवंश दीपक का आलोचनात्मक अध्ययन.
4	Shri Thomas C. Pantham	Political Science	A study of the Organisational activities of the Congress, the Swatantra and the Praja-Socialist Parties in Baroda City
5	Shri R. G. Shah	Sanskrit	Shri Harirayaji : His life and works
6	Shri N. M. Kansara	Sanskrit	Dhanapal's Tilakamanjari—a Critical Study
7	Shri D. Nararyan Rao	Bio-Chemistry	Studies on Egg white lysozyme, Enzymatic and Physico-Chemical Properties of DNP derivatives of lysozyme
8	Shri G. Prathapsenan	Botany	Studies on the effect of Gibberellic Acid on Cotton (Gossypium Herbaceum)
9	Shri V. P. Fadia	Botany	Tissue Culture Studies in Cucurbits
10	Shri R. P. Bhatt	Botany	Studies on the Flora and Vegetation of Khedbrahma region in North Gujarat with a note on the Chromosome number and Karyotype of some Texa therein
11	Shri Nalla M. Rao	Botany	Growth and nutritional studies of Plant Tissues Cultured in Vitro
12	Shri R. N. Kapadia	Chemistry	Co-ordination Polymers
13	Kum. N. H. Pardanani	Chemistry	Studies in the synthesis of Furobenzohyprones and Pyranobenzohyprones
14	Shri D. C. Patel	Chemistry	Studies in the relative Stabilities of some Metal Complexes

1	2	3	4
15	Shri J. D. Mehta	Chemistry	Studies on Sorption behaviour of ion Exchangers
16	Shri M. V. Chidambaram	Chemistry	Formation and Stability of some Amino Acid Chelates
17	Shri A. P. Kuriakose	Chemistry	Studies on Dihydroxy Naphthalenes
18	Shri P. R. Raval	Geology	Geological Studies in Ider and its neighbourhood with special reference to the Structure, Metamorphism and Igneous activity of the area
19	Shri J. L. Raina	Microbiology	Genetic transformation in Rhizobium
20	Kum. E. Mathai	Physics	Optical studies of Crystal Surfaces—Tellurium and Zircon
21	Shri K. C. George	Zoology	Studies on the metabolism of developing and irradiated vertebrate tissues
22	Kum. M. V. Asnani	Zoology	Certain Histological and Histophysiological Studies on the Avian Liver
23	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
24	Shri R. D. Ghai	Bio-Chemistry (Medicine)	Studies on some aspects of Gastric Secretion
25	Shri O. P. Sethi	Pharmacology	Pharmacology of Autonomic Ganglia blocking drugs
26	Shri R. A. Parimoo	Art History	The Paintings of the three Tagores—Abanindranath, Gajendranath and Rabindranath—Chronology and Comparative Study
27	Shri B. D. Thaker	Dramatics	Contribution of Dahyabhai Dholshaji as a Playwright with special reference to the Contemporary Gujarati Stage
28	Shri S. S. Sail	Food and Nutrition	Nutritional Studies on School Children

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
49 *M.S. (Br. I—Surgery)	9	—	8	1	9	—	—	—	—	—	5	5	—	—	—	1	1	6	66.66%
50 *M.S. (Br. II—Anatomy)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	00%
51 *F.Y.B. Physiotherapy	10	—	4	6	10	—	—	—	—	—	1	1	—	—	5	5	6	60.00%	
52 *S.Y.B. Physiotherapy	9	—	5	4	9	—	—	—	—	—	2	2	—	—	1	1	3	33.33%	
53 *S.Y.B. Physiotherapy (Suppl.)	4	—	2	2	4	—	—	—	—	—	—	—	—	—	—	—	—	00%	
54 *D.A.	1	—	—	1	1	—	—	—	—	—	—	—	—	—	1	1	1	100%	
55 *D.O.	2	—	1	1	2	—	—	—	—	—	1	1	—	—	1	1	2	100%	
56 *D.C.H.	1	—	1	—	1	—	—	—	—	—	1	1	—	—	—	—	1	100%	
57 *D.C.P.	2	—	2	—	2	—	—	—	—	—	2	2	—	—	—	—	2	100%	
58 *D.G.O.	3	—	1	2	3	—	—	—	—	—	1	1	—	—	1	1	2	66.66%	
59 *M.Sc. (Medical)—Part I	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	00%	
60 F.Y. Dip. (CME)	332	3	326	1	327	—	—	—	—	12	34	70	116	—	—	—	116	35.47%	
61 S.Y. Dip. (CME)	307	1	305	1	806	—	—	—	—	15	63	49	127	—	—	—	127	41.50%	
62 *I Sem. of S.Y. Dip. (CME)— EDC.	12	1	11	—	11	—	—	—	—	—	1	1	—	—	—	—	—	1	09.09%
63 II Sem. of S.Y. Dip. (CME)— EDC.	3	1	2	—	2	—	—	—	—	—	2	2	—	—	—	—	—	2	100%
64 *I Sem. of Final Year D.C.E.—EDC.	15	1	14	—	14	—	—	—	—	—	11	11	—	—	—	—	—	11	78.57%
65 *I Sem. of Final Year D.M.E.—EDC.	46	6	40	—	40	—	—	—	—	—	23	23	—	—	—	—	—	23	57.5%
66 *I Sem. of Final Year D.E.E.—EDC.	39	7	32	—	32	—	—	—	—	—	10	10	—	—	1	—	—	10	31.25%
67 II Sem. of Final Year D.C.E.—EDC.	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	00%
68 II Sem. of Final Year D.M.E.—EDC.	19	2	17	—	17	—	—	—	—	5	6	11	—	—	—	—	—	11	64.71%
69 II Sem. of Final Year D.E.E.—E.D.C.	14	6	8	—	8	—	—	—	—	—	3	3	—	—	—	—	—	3	37.5%
70 *F.S. of F.Y. Dip. (OPF)	95	—	91	4	95	—	—	—	—	—	76	76	—	—	4	4	4	80	84.21%

* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
71 D.C.E.	77	3	74	—	74	—	—	—	—	—	27	28	62	—	—	—	—	—	62	83.78%
72 D.M.E.	148	7	141	—	141	—	—	—	—	—	24	38	29	91	—	—	—	—	91	64.33%
73 *D.M.E. (Under O.T.E. 155)	55	4	51	—	51	—	—	—	—	—	—	49	49	—	—	—	—	—	49	96.00%
74 D.E.E.	113	7	105	1	106	—	—	—	—	9	30	24	63	—	—	1	1	64	60.35%	
75 *D.E.E. (Under O.T.E. 162)	71	5	66	—	66	—	—	—	—	—	—	51	51	—	—	—	—	51	77.27%	
76 D.T.C.	32	1	31	—	31	—	—	—	—	1	7	8	16	—	—	—	—	16	51.61%	
77 D.T.C. (under O.T.E. 184)	118	6	112	—	112	—	—	—	—	3	31	31	65	—	—	—	—	65	58.03%	
78 D.T.T.	34	—	34	—	34	—	—	—	—	7	10	8	25	—	—	—	—	25	73.53%	
79 F.Text (Engg. & Tech.)	57	2	54	1	55	—	—	—	—	3	24	11	38	—	—	1	1	39	70.90%	
80 S.Text (Engg. & Tech.)	60	3	56	1	57	—	—	—	—	5	14	12	31	—	—	—	—	31	54.38%	
81 T.Text (Engg.)	19	—	19	—	19	—	—	—	—	1	12	2	15	—	—	—	—	15	78.94%	
82 T.Text (Tech.)	41	1	40	—	40	—	—	—	—	1	19	13	33	—	—	—	—	33	82.5%	
83 B.Text (Engg.)	21	—	21	—	21	—	—	—	—	2	12	5	19	—	—	—	—	19	90.47%	
84 B.Text (Tech.)	33	—	33	—	33	—	—	—	—	3	9	19	1	32	—	—	—	32	96.96%	
85 *I Sem. of B.E. I (CME., Chem., Met.)	107	1	106	—	106	—	—	—	—	—	—	34	34	—	—	—	—	34	32.07%	
86 II Sem. of B.E. I (CME., Chem., Met.)	390	1	388	1	389	16	45	135	51	247	—	—	—	1	—	1	248	63.75%		
87 *I Sem. of B.E. II (CME., Chem., Met.)	96	3	93	—	93	—	—	—	—	—	—	62	62	—	—	—	—	62	66.66%	
88 II Sem. of B.E. II (CME., Chem., Met.)	351	2	347	2	349	19	47	142	50	258	1	—	—	1	—	—	2	260	74.49%	
89 *I Sem. of B.E. III (CME., Chem., Met.)	128	2	126	—	126	—	—	—	—	—	68	68	—	—	—	—	—	68	53.96%	
90 II Sem. of B.E. III (CME., Chem., Met.)	391	1	388	2	390	24	57	164	57	302	—	—	—	2	—	—	2	304	77.94%	
91 *I Sem. of B.E. IV (CME., Chem., Met. Electro.)	75	1	74	—	74	—	—	—	—	—	—	51	51	—	—	—	—	51	68.91%	
92 II Sem. of B.E. IV (CME., Chem., Met. Electro.)	405	1	400	4	404	59	97	151	42	349	—	—	—	4	—	4	4	353	87.37%	

* No. Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
93	*I Sem. of B.E. V (Civil)	3	—	3	—	—	3	—	—	—	2	2	—	—	—	—	—	—	2 66.66%
94	*I Sem. of B.E. V (Mech.)	2	—	2	—	—	2	—	—	—	2	2	—	—	—	—	—	—	2 100%
95	*I Sem. of B.E. V (Elect.)	12	3	9	—	—	9	—	—	—	6	6	—	—	—	—	—	—	6 66.66%
96	*I Sem. of B.E. V (Chem.)	4	—	4	—	—	4	—	—	—	3	3	—	—	—	—	—	—	3 75.00%
97	*I Sem. of B.E. V (Met.)	1	—	1	—	—	1	—	—	—	1	1	—	—	—	—	—	—	1 100%
98	II Sem. of B.E. V (Civil)	78	—	78	—	—	78	12	36	27	1	76	—	—	—	—	—	—	76 97.43%
99	II Sem. of B.E. V (Mech.)	116	1	115	—	—	115	60	49	5	—	114	—	—	—	—	—	—	114 99.13%
100	II Sem. of B.E. V (Elect.)	83	4	79	—	—	79	8	35	31	1	75	—	—	—	—	—	—	75 94.93%
101	II Sem. of B.E. V (Chem.)	34	1	33	—	—	33	12	12	8	—	32	—	—	—	—	—	—	32 96.63%
102	II Sem. of B.E. V (Met.)	32	1	31	—	—	31	14	15	2	—	31	—	—	—	—	—	—	31 100%
103	*I Sem. of B.E. I (Electro.)	6	—	6	—	—	6	—	—	—	4	4	—	—	—	—	—	—	4 33.33%
104	II Sem. of B.E. I (Electro.)	23	—	22	1	—	23	—	2	13	1	16	—	—	—	—	—	—	17 73.91%
105	II Sem. of B.E. II (Electro.)	7	1	6	—	—	6	—	—	—	5	5	—	—	—	—	—	—	5 83.33%
106	II Sem. of B.E. II (Electro.)	18	—	18	—	—	18	2	—	5	6	13	—	—	—	—	—	—	13 72.22%
107	*I Sem. of B.E. III (Electro.)	5	—	5	—	—	5	—	—	—	5	5	—	—	—	—	—	—	5 100%
108	II Sem. of B.E. III (Electro.)	21	—	21	—	—	21	—	7	14	—	21	—	—	—	—	—	—	21 100%
109	*M.E. (Civil)—Part I	9	—	9	—	—	9	—	—	—	5	5	—	—	—	—	—	—	5 55.55%
110	*M.E. (Mech.)—Part I	11	1	10	—	—	10	—	—	—	8	8	—	—	—	—	—	—	8 80.00%
111	*M.E. (Elect.)—Part I	3	—	3	—	—	3	—	—	—	3	3	—	—	—	—	—	—	3 100%
112	*M.E. (Civil)—Part II	2	—	2	—	—	2	—	—	—	2	2	—	—	—	—	—	—	2 100%
113	*M.E. (Elect.)—Part II	8	1	7	—	—	7	—	—	—	6	6	—	—	—	—	—	—	6 85.91%
114	*M.E. (Civil)—Part III	11	—	11	—	—	11	—	—	—	11	11	—	—	—	—	—	—	11 100%
115	*M.E. (Mech.)—Part III	15	—	15	—	—	15	—	—	—	15	15	—	—	—	—	—	—	15 100%
116	*M.E. (Elect.)—Part III	12	—	12	—	—	12	—	—	—	11	11	—	—	—	—	—	—	11 91.66%
117	M.E. (Civil)—Part IV	6	—	6	—	—	6	—	1	5	—	6	—	—	—	—	—	—	6 100%
118	M.E. (Elect.)—Part IV	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	— 00%
119	*M.Text. (Engg.)—Part I	5	—	5	—	—	5	—	—	—	4	4	—	—	—	—	—	—	4 80.00%
120	*P.G.Dip. in Ref. & Air Cond.—Part I	8	—	8	—	—	8	—	—	—	7	7	—	—	—	—	—	—	7 62.5%
121	*P.D.Dip. in Ref. & Air Cond.—Part I	1	—	1	—	—	1	—	—	—	1	1	—	—	—	—	—	—	1 100%

No Class is awarded.

122	P.D.Dip. in Ref. & Air Cond.—Part II	8	1	7	—	—	7	3	3	1	—	7	—	—	—	—	—	—	7 100%
123	Third Year B.Arch.	51	2	38	11	—	49	—	2	8	6	16	—	—	5	1	6	—	22 44.9%
124	B.Arch.	70	7	49	14	63	5	2	18	6	31	—	—	—	3	1	4	—	35 55.55%
125	I LL.B. (General)	296	79	193	24	217	—	2	35	25	62	—	—	—	5	3	8	—	70 32.25%
126	II LL.B. (General)	104	17	73	14	87	—	—	—	32	—	34	—	—	5	—	6	—	40 45.97%
127	I LL.B. (Old Course)	11	8	3	—	—	3	—	—	—	—	—	—	—	—	—	—	—	— 00.00%
128	II LL.B. (Old Course)	21	4	16	1	17	—	—	—	5	7	12	—	—	—	1	1	—	13 76.47%
129	LL.B. (Special)	41	3	33	5	38	—	—	1	16	1	18	—	—	3	3	21	—	53.26%
130	*D.L.P.	54	9	43	2	45	—	—	—	19	19	—	—	—	2	2	21	—	46.66%
131	*D.L.P.	64	12	44	8	52	—	—	—	—	16	16	—	—	5	5	21	—	40.38%
132	LL.M.	20	5	14	1	15	—	—	—	4	—	4	—	—	—	—	—	—	4 26.66%
133	M.A. (Fine)—Painting	1	—	—	1	1	—	—	—	—	—	—	—	—	1	—	1	—	1 100%
134	M.A. (Fine)—Sculpture	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1 100%
135	M.A. (Fine)—Art Criticism	3	—	—	2	—	3	—	—	—	—	—	—	—	—	—	—	—	3 100%
136	M.A. (Fine)—Graphic Art	2	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	2 100%
137	B.A. (Fine)—Painting	4	—	2	2	—	2	—	—	—	—	—	—	—	—	—	—	—	3 75.00%
138	B.A. (Fine)—Appl. Arts	6	—	4	2	—	4	—	—	—	—	—	—	—	—	—	—	—	6 100%
139	Post Dip. in Painting	1	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	1 100%
140	Post Dip. in Appl. Arts	1	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	1 100%
141	Dip. in Fine Arts (Painting)	2	—	—	1	—	2	—	—	—	—	—	—	—	—	—	—	—	2 100%
142	Dip. in Fine Arts (Sculpture)	2	—	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	— 00.00%
143	Dip. in Fine Arts (Appl. Arts)	9	—	8	1	9	—	—	2	5	1	8	—	—	—	—	—	—	9 100%
144	M.Mus.	3	—	1	2	3	1	—	—	—	—	—	—	—	—	—	—	—	2 3 100%
145	B.Mus.	12	—	5	7	12	1	—	—	—	—	—	—	—	—	—	—	—	6 83.33%
146	Dip. in Music	30	2	18	10	28	3	5	4	3	15	3	3	1	10	25	89.28%	—	—
147	Dip. in Dance	11	—	1	10	11	—	—	—	—	—	—	—	—	—	—	—	—	7 63.63%
148	Dip. in Dramatics	6	1	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	5 100%
149	*P.G. Dip. in Museology	6	—	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	6 100%
150	B.Sc. (Home)	93	—	—	93	93	—	—	—	—	—	—	—	—	—	—	—	—	— 100%
151	M.Sc. (Home)	22	1	—	—	21	—	—	—	—	—	—	—	—	—	—	—	—	86 92.47%
152	P.G.Dip. in Nursery School Education	5	—	—	5	5	—	—	—	—	—	—	—	—	—	—	—	—	5 100%

* No Class is awarded. † Passes in 'A' Grade. ‡ Passes in 'B' Grade. § Passes in 'C' Grade.

*19	M.D. (Br. II)—Pathology	1	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	100%	
*20	M.D. (Br. V)—Obst. & Gyn.	4	—	4	4	—	—	—	—	—	—	—	—	—	—	—	—	3	3	75.00%	
*21	M.D. (Br. VI)—Pediatrics	3	—	1	2	3	—	—	—	1	1	—	—	—	—	—	—	1	1	2	66.00%
*22	M.D. (Br. VII)—Anaesthesiology	2	—	1	1	2	—	—	—	1	1	—	—	—	—	—	—	1	1	2	100%
*23	M.S. (Br. I)—Surgery	8	—	8	—	8	—	—	—	—	2	2	—	—	—	—	—	—	—	2	25.00%
*24	M.S. (Br. IV)—E.N.T.	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	1	100%
25	M.Sc. (Medical)—Part I	16	—	15	1	16	—	—	—	—	7	7	—	—	—	—	—	—	—	7	43.75%
26	M.Sc. (Medical)—Part II	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
*27	Diploma in Ophthalmology	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	2	2	2	100%
*28	Diploma in Anaesthesiology	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	—	—	2	100%
*29	Diploma in Laryngology & Otolology	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	1	100%
*30	D.M.R.—Part II	4	—	4	—	4	—	—	—	—	4	4	—	—	—	—	—	—	—	4	100%
*31	Diploma in Child Health	4	—	3	1	4	—	—	—	—	3	3	—	—	—	—	—	—	—	3	75.00%
*32	Diploma in Clinical Pathology	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	1	1	1	100%
*33	Diploma in Gynaecology & Obstetrics.	4	—	—	4	4	—	—	—	—	—	—	—	—	—	—	—	3	3	3	75.00%
34	F.Y. Diploma (C.M.E.)	184	4	179	1	180	—	—	—	—	65	65	—	—	—	—	—	—	—	65	36.11%
35	S.Y. Diploma (C.M.E.)	167	8	158	1	159	—	—	—	—	83	83	—	—	—	—	—	—	—	83	52.14%
*36	I Sem. of S.Y. Dip. (CME)— Extd. Course	86	4	82	—	82	—	—	—	—	24	24	—	—	—	—	—	—	—	24	29.26%
*37	II Sem. of S.Y. Dip. (CME)— Extd. Course	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	Nil	00.00%
*38	I Sem. of Final Year D.C.E.— Extd. Course	4	—	4	—	4	—	—	—	—	2	2	—	—	—	—	—	—	—	2	50.00%
39	I Sem. of Final Year D.M.E.— Extd. Course	22	6	16	—	16	—	—	—	—	10	10	—	—	—	—	—	—	—	10	62.5%
*40	I Sem. of Final Year D.E.E.— Extd. Course	28	6	22	—	22	—	—	—	—	6	6	—	—	—	—	—	—	—	6	27.27%

Extd. Course

41	II Sem. of Final Year D.C.E.— Extd. Course	16	2	14	—	14	—	—	2	1	7	10	—	—	—	—	—	—	—	10	62.5%
42	II Sem. of Final Year D.M.E. Extd. Course	44	6	38	—	38	—	—	6	15	6	27	—	—	—	—	—	—	—	27	71.5%
43	II Sem. of Final Year D.E.E. Extd. Course	36	12	24	—	24	—	—	2	6	5	13	—	—	—	—	—	—	—	13	54.16%
44	I Sem. of F.Y. Dip. (OPF)	107	4	103	—	103	—	—	—	—	50	50	—	—	—	—	—	—	—	50	48.56%
45	II Sem. of F.Y. Dip. (OPF)	93	3	90	—	90	—	—	18	36	24	78	—	—	—	—	—	—	—	78	85.55%
46	Diploma in Civil Engg.	14	1	13	—	13	—	—	—	2	6	8	—	—	—	—	—	—	—	8	61.54%
47	Diploma in Mechanical Engg.	54	7	47	—	47	—	—	2	6	17	25	—	—	—	—	—	—	—	25	53.19%
48	*Diploma in Mechanical Engg. (Under O.T.E. 155)	2	1	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	1	50.00%
49	Diploma in Electrical Engg.	43	6	37	—	37	—	—	1	2	8	11	—	—	—	—	—	—	—	11	29.72%
50	*Diploma in Electrical Engg. (Under O.T.E. 162)	14	3	11	—	11	—	—	—	—	6	6	—	—	—	—	—	—	—	6	54.54%
51	Diploma in Textile Chemistry	12	3	9	—	9	—	—	—	—	5	5	—	—	—	—	—	—	—	5	55.55%
52	Diploma in Textile Chemistry (Under O.T.E. 184)	42	6	36	—	36	—	—	—	2	19	21	—	—	—	—	—	—	—	21	58.33%
53	Diploma in Textile Technology	8	—	8	—	8	—	—	—	—	3	3	—	—	—	—	—	—	—	3	37.5%
54	F. Text. (Engg. & Tech.)	13	—	13	—	13	—	—	—	—	5	5	—	—	—	—	—	—	—	5	38.46%
55	S.Text (Engg. & Tech.)	23	1	22	—	22	—	—	—	—	7	7	—	—	—	—	—	—	—	7	31.82%
56	T.Text. (Engg.)	4	—	4	—	4	—	—	—	—	2	2	—	—	—	—	—	—	—	2	50.00%
57	T.Text. (Tech.)	6	—	6	—	6	—	—	—	—	4	4	—	—	—	—	—	—	—	4	33.33%
58	B.Text. (Engg.)	2	—	2	—	2	—	—	—	—	1	1	—	—	—	—	—	—	—	1	50.50%
59	B.Text. (Tech.)	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	1	100%
60	*I Sem. of B.E. I (CME Chem. Met.)	490	2	488	—	488	—	—	—	—	262	262	—	—	—	—	—	—	—	262	53.68%
61	II Sem. of B.E. I (CME Chem. Met.)	104	3	101	—	101	—	—	—	—	48	48	—	—	—	—	—	—	—	48	47.52%
62	*I Sem. of B.E. II (CME Chem. Chem. Met.)	355	2	353	—	353	—	—	—	—	245	245	—	—	—	—	—	—	—	245	68.75%
63	II Sem. of B.E. II (CME Chem. Met.)	80	2	78	—	78	—	—	—	—	65	65	—	—	—	—	—	—	—	65	83.33%

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
64	I Sem. of B.E. III (CME, Chem. Met.)	371	4	367	—	367	—	—	—	243	243	—	—	—	—	243	66.21%	
65	II Sem. of B.E. III (CME Chem. Met.)	67	1	66	—	66	—	—	—	49	49	—	—	—	—	49	74.25%	
66	*I Sem. of B.E. IV (CME Chem. Met. Electro.)	368	4	364	—	364	—	—	—	316	316	—	—	—	—	316	86.82%	
67	II Sem. of B.E. IV (CME Chem. (Met.))	37	2	35	—	35	—	—	—	23	23	—	—	—	—	23	65.70%	
68	*I Sem. of B.E. V (Civil)	88	—	85	3	88	—	—	—	84	84	—	—	3	3	87	98.86%	
69	*I Sem. of B.E. V (Mech.)	109	2	107	—	107	—	—	—	103	103	—	—	—	—	103	96.25%	
70	*I Sem. of B.E. V (Elect.)	88	—	88	—	88	—	—	—	79	79	—	—	—	—	79	89.76%	
71	*I Sem. of B.E. V (Chem.)	41	—	41	—	41	—	—	—	39	39	—	—	—	—	39	95.13%	
72	*I Sem. of B.E. V (Met.)	54	—	54	—	54	—	—	—	53	53	—	—	—	—	53	98.15%	
73	*I Sem. of B.E. V (Electro.)	17	—	17	—	17	—	—	—	17	17	—	—	—	—	17	100.00%	
74	II Sem. of B.E. V (Civil.)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	2	100.00%	
75	II Sem. of B.E. V (Mechanical)	2	1	1	—	1	—	—	—	1	1	—	—	—	—	1	50.00%	
76	II Sem. of B.E. V (Electrical)	5	—	5	—	5	—	—	—	2	2	—	—	—	—	2	60.00%	
77	II Sem. of B.E. V (Chem.)	2	—	2	—	2	—	—	—	1	1	—	—	—	—	1	100.00%	
78	II Sem. of B.E. V (Met.)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	00.00%	
79	*I Sem. of B.E. I (Electro.)	26	1	25	—	25	—	—	—	22	22	—	—	—	—	22	88.00%	
80	II Sem. of B.E. I (Electro.)	5	1	4	—	4	—	—	—	3	3	—	—	—	—	3	75.00%	
81	*I Sem. of B.E. II (Electro.)	22	1	20	1	21	—	—	—	12	12	—	—	1	1	13	61.9%	
82	II Sem. of B.E. II (Electro.)	5	2	3	—	3	—	—	—	2	2	—	—	—	—	2	66.66%	
83	*I Sem. Final B.E. III (Electronics)	13	1	12	—	12	—	—	—	12	12	—	—	—	—	12	100.00%	
84	*M.E. (Civil)—Part I (October 1971)	4	—	4	—	4	—	—	—	4	4	—	—	—	—	4	100.00%	
85	*M.E. (Mech.)—Part I (October 1971)	2	—	2	—	2	—	—	—	1	1	—	—	—	—	1	50.00%	
86	*M.E. (Civil.)—Part II (October 1971)	4	1	3	—	3	—	—	—	3	3	—	—	—	—	3	100.00%	
87	*M.E. (Mech.)—Part II (October 1971)	10	—	10	—	10	—	—	—	9	9	—	—	—	—	9	90.00%	

88	*M.E. (Elec.)—Part II (October 1971)	5	—	5	—	5	—	—	—	4	4	—	—	—	—	4	80%		
*89	M.E. (Civil)—Part III (Octo. 1971)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	100%		
*90	M.E. (Elect.)—Part III (Octo. 1971)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	100%		
*91	M.E. (Civil)—Part IV (Octo 1971)	6	3	2	1	3	—	—	—	1	1	—	—	—	—	3	100%		
*92	M.E. (Mech.)—Part IV (Octo. 1971)	12	4	7	1	8	—	—	—	6	1	—	—	—	—	8	100.00%		
*93	M.E. (Elect.) Part IV (Octo. 1971)	11	1	10	—	10	—	—	—	7	1	—	—	—	—	10	100.00%		
*94	M.E. (Mech.)—Part IV (Aug. 1971)	3	—	3	—	3	—	—	—	3	3	—	—	—	—	3	100.00%		
*95	M.Text (Elingg.)—Part II	4	—	4	—	4	—	—	—	4	4	—	—	—	—	4	100.00%		
*96	P.G.Dip. in Ref. & Air Cond. —Part I	1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	100.00%		
*97	P.G.Dip. in Ref. & Air Cond. —Part II	8	—	8	—	8	—	—	—	8	8	—	—	—	—	8	87.50%		
*98	I Sem. of P.D.Dip. in Ref. & Air Cond.	9	—	9	—	9	—	—	—	7	7	—	—	—	—	7	77.77%		
*99	I Sem. of P.D.Dip. in Ref. & Air Cond.	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	00.00%		
100	I Sem. of F.Y.B.Arch. Third Year B.Arch.	41	—	34	7	41	—	—	—	25	25	—	—	—	—	5	30	73.17%	
101	B.Arch.	26	—	22	4	26	—	—	—	13	13	—	—	—	—	1	14	53.85%	
102	First LL.B. (General)	36	3	23	10	33	—	—	—	2	7	4	13	—	—	10	23	69.69%	
103	Second LL.B. (General)	117	40	70	7	77	—	—	—	2	26	28	—	—	—	2	4	32	41.56%
104	L.L.B. (Special)	50	10	33	7	40	—	—	—	3	21	24	—	—	—	6	30	75.00%	
105	B.Sc. (Home)	16	1	14	1	15	—	—	—	2	8	10	—	—	—	1	11	73.33%	
106	M.Sc. (Home)	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	70.00%	
107	M.S.W.	6	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*108	Ph.D. (Arts)	8	—	7	1	8	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*109	Ph.D. (Science)	2	—	1	1	2	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*110	Ph.D. (Edu. & Psy.)	5	—	2	3	5	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*111	Ph.D. (Medicine)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*112	Ph.D. (Fine Arts)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	100.00%	
*113	Ph.D. (Fine Arts)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	100.00%	

* No Class is awarded.

† Passed in A Grade.

‡ Passed in B Grade.

§ Passed in C Grade.

CAPITAL ACCOUNTS

I-University General Fund
(Subject to Audit)
1971-72

<i>Receipts</i>	Rs.	P.	<i>Payments</i>	Rs.	P.
Opening Balance as on 1-4-1971			Building Work	12,41,608-85	
Interest			Purchase of Furniture	54,361-22	
Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust, Baroda	3,75,000-00		Closing Balance		6,62,345-51
Donation from Sir Sayajirao Diamond Jubilee and Memorial Trust towards Library Building for under-graduate students	6,00,000-00				
60% of the Income from Additional seats in the Faculty of Commerce transferred to this Fund towards the construction of additional class-rooms, staff-rooms, etc.	88,000-00				
Total	19,58,315-58		Total	19,58,315-58	

II-Ayurvedic Research Fund

(Subject to Audit)
1971-72

<i>Receipts</i>	Rs.	P.	<i>Payments</i>	Rs.	P.
Opening Balance as on 1-4-1971	12,32,212-08		Amount transferred for the excess recurring expenditure of the Unit over and above the State Government grant	32,257-88	
Interest	43,814-74		Closing Balance	12,43,768-94	
Total	12,76,026-82		Total	12,76,026-82	

III-Post-graduate Instruction and Research Fund

(Subject to Audit)
1971-72

<i>Receipts</i>	Rs.	P.	<i>Payments</i>	Rs.	P.
Opening Balance as on 1-4-1971	46,78,356-31		Expenditure on Research etc.	25,886-50	
Interest	1,42,695-00		(i) Research Schemes	47,246-10	
			(ii) Research Assistants	1,277-42	
			(iii) Scholarships	47,46,641-29	
			Closing Balance		
Total	48,21,051-31		Total	48,21,051-31	

(g)	Faculty of Fine Arts	44,911-00	(p)	Polytechnic: (Diploma Courses in Civil, Mechanical and Electrical Engineering and Petro-Chemicals)	11,66,778-41
(h)	Faculty of Home Science	2,78,199-76	(q)	Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	75,787-63
(i)	Faculty of Social Work	46,558-60	XIII	University Library	4,27,502-37
<i>Institutions:</i>					
(j)	College of Indian Music, Dance and Dramatics	50,248-90	XIV	University Guest House	17,998-42
(k)	Preparatory Unit: Arts and Commerce	152-00	XV	University Auxiliary Services	6,56,418-82
(l)	Preparatory Unit: Science	1,838-00	(a)	M. S. University of Baroda Press (Sadhana Press)	4,27,746-03
(m)	Sanskrit Mahavidyalaya	46-72	(b)	M.S. University Stationery Unit	2,09,423-31
(n)	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	2,01,743-65	(c)	M.S. University Publication Sales Unit	19,249-48
(o)	Polytechnic: (Diploma Courses in Civil, Mechanical and Electrical Engineering and Petro-Chemicals)	2,06,087-30	XVI	Halls of Residence for Students	9,40,000-47
(p)	Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	21,691-00	XVII	Sheth U.P. Ayurvedic Research Unit	62,257-88
<i>(ii) Fees for Enrolment etc.</i>					
		47,830-00			
(a)	For Enrolment Certificates	36,400-00			

1	2	3	1	2	3
(b)	For Post-graduate Registration	11,430-00			
(B)	Examination Fees:	10,00,729-06			
(C)	Other Fees:	3,22,939-40			
III	Hostels-Income from Halls of Residence for Students	5,23,916-50			
IV	Income from Buildings, Lands and Other Properties:	2,92,250-80			
V	Income from Publications	52,095-10			
VI	Health Services—University Health Centre	16,069-58			
VII	University Auxiliary Services	6,15,984-25			
(a)	Income from M. S. University of Baroda Press (Sadhana Press)	4,05,009-00			
(b)	Income from M. S. University Stationery Unit	2,10,975-25			
VIII	Miscellaneous Receipts	1,65,638-99			
IX	Sheth U. P. Ayurvedic Research Unit	62,257-88			
X	Transfer from Insurance Fund towards payment of Insurance Premium and insurance of Buildings, Equipment, Books etc.	76,608-00			
XI	Excess of Disbursement over Receipts i.e. Deficit	28,79,897-65			
Grand Total		1,74,03,057-85	Grand Total		1,74,03,057-85

THE MAHARAJA SAYAJIRAO

Statement of student-

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	.. 25	25	25	22	25	24
Preparatory Arts and Commerce	.. 1	—	4	2	3	3
Arts	.. 3	5	6	5	3	4
Commerce	.. 13	14	7	9	11	11
Science	.. 33	34	22	39	20	23
Education and Psychology	.. —	—	—	—	4	2
Technology and Engineering	.. 82	89	99	71	124	75
Polytechnic	.. —	2	3	2	3	4
Medicine	.. 22	20	18	42	40	53
Social Work	.. —	—	—	—	—	1
Fine Arts	.. 1	2	4	1	2	—
Music	.. —	—	—	—	—	1
Law	.. —	1	—	—	1	1
Home Science	.. —	—	—	—	—	—
TOTAL..	180	192	188	193	236	202

UNIVERSITY OF BARODA

residents during 1971-72

VII	Shri Daxabhai Nacroji Hall	Shri Rabindra-nath Tagore Hall	Shri M. Vishve-saraiya 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
11	1	32	30	33	253	9	14	9	7	39	292
—	2	9	7	8	39	5	4	11	11	31	70
18	8	13	18	17	100	45	42	40	13	140	240
7	8	32	20	46	178	16	19	7	12	54	232
13	15	46	31	32	308	27	15	30	15	87	395
1	6	—	12	—	25	3	6	10	—	19	44
64	21	108	84	87	904	8	14	4	3	29	933
—	—	47	47	64	172	—	—	—	—	—	172
7	6	25	26	31	290	13	8	14	7	42	332
10	—	4	6	4	25	7	8	5	—	20	45
5	—	5	7	3	30	16	7	6	5	34	64
—	2	3	4	—	10	7	—	10	5	22	32
3	3	8	—	5	22	2	3	4	3	12	34
1	—	—	1	—	2	129	92	93	28	342	344
140	72	332	293	330	2358	287	232	243	109	871	3229

Grants for Development and Research Schemes 1971-72

Sr. No.	Name of the Agency	Amount of Grant	
		Rs.	P.
1.	University Grants Commission	27,03,860	69
2.	Ministry of Education, Government of India	2,98,029	77
3.	Ministry of Health, Government of India	84,000	00
4.	Ministry of Defence, Research and Development Organisation, Government of India	9,101	00
5.	Central Social Welfare Board	1,46,725	90
6.	Planning Commission, Government of India	24,108	25
7.	Council of Scientific and Industrial Research, New Delhi	18,803	04
8.	Department of Atomic Energy	8,675	00
9.	Institute of Himalayan Geology	600	00
10.	Indian Council of Social Science Research	12,866	00
11.	National Council for Science Education	17,000	00
12.	Government of Gujarat (Matching grant)	4,19,892	86
13.	Government of Gujarat (Research and other schemes)	61,989	89
14.	United States Department of Agriculture, New Delhi (Am-PL-480 Programme)	4,19,752	40
15.	Director, Wheat Associate Project	10,760	63
16.	Ford Foundation	7,023	92
17.	Unichem Laboratories, Bombay	5,000	00
Total Rs.		42,48,189	35