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*M.S. University of Baroda*  
*Twenty Eighth*  
*Annual Report*  
1976-77



ANNEXURE 4  
Enclosure To Senate Item No. 8  
Senate

11 DEC 1977

The Maharaja Sayajirao University  
of Baroda

# TWENTY-EIGHTH ANNUAL REPORT

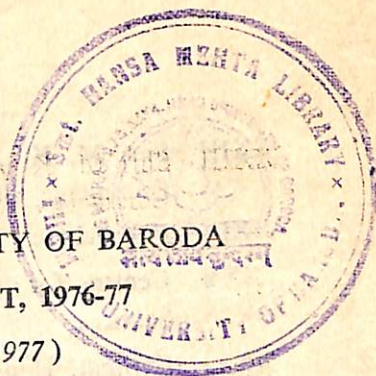
1976-77



BARODA



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**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA**  
**TWENTY-EIGHTH ANNUAL REPORT, 1976-77**

(1st April, 1976 to 31st March, 1977)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

## TWENTY-EIGHTH ANNUAL REPORT, 1976-77

### INTRODUCTION

Conceived in 1925 by the Baroda University Commission appointed by Maharaja Sayajirao III, the establishment of the M. S. University in 1949 would appear to have been inevitable with the expansion of higher education in Baroda in the decades following. The teaching unitary University started 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 under the management of the Government of Bombay :

7. The Baroda Medical College.

(c) Constituent recognised Institutions under the management of the Government of Bombay :

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

By June, 1950 these institutions were reorganized into the six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, and Technology and Engineering, and three new Faculties of Fine Arts, Home Science and Social Work were also established. In 1951 the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the old Baroda High School were taken over from the Government of Bombay. Today the University has the following Faculties and Institutions under it—Faculties of Arts, Science, Education and Psychology, Commerce, Medicine, Technology and Engineering, Fine Arts with the College of Indian Music, Dance and Dramatics, Home Science, Social Work, Law, Oriental Institute, Polytechnic, Sanskrit Mahavidyalaya, Centre for Continuing/Adult Education and Community Services and M. K. Amin Arts and Science College and College of Commerce, Padra.

With the introduction of the three year degree course in 1957, the first year after S.S.C. was placed under an institution called the Preparatory Unit—(Arts, Commerce and Science) while the second year (the intermediate year) was placed under the Faculty concerned as the first year of its three year degree course.



### Student Enrolment

The University started with 2,962 students on its roll. In 1976-77, it has 20,664 University students and 1,723 non-University students. The following table gives student enrolment figures for the year 1971-72 to 1976-77.

Year	Total enrolment	Percentage increase/decrease
1971-72	16,590	
1972-73	17,986	4.0
1973-74	18,551	7.8
1974-75	23,740	3.1
1975-76	21,138	27.9
1976-77	20,664	-10.9
		-2.3

Sex-Ratio in different Faculties : The table below gives ratio of men to women students in various Faculties and Institutions of the University for the years 1950-51, 1960-61, 1970-71 and 1976-77.

	1950-51		1960-61		1970-71		1976-77	
	Men %	Women %	Men %	Women %	Men %	Women %	Men %	Women %
Arts	72.1	27.9	65.7	34.3	47.5	62.5	58.2	41.8
Science	—	—	87.5	12.5	72.2	27.8	68.7	31.3
Education and Psychology	87.2	12.8	63.0	37.0	30.7	60.3	40.0	60.0
Commerce	—	—	82.6	17.4	82.6	17.4	72.5	27.5
Medicine	89.8	10.2	82.6	17.4	84.0	16.0	82.6	17.4
Technology and Engineering	99.6	0.4	99.0	1.0	97.7	2.3	96.0	4.0
Fine Arts	—	—	83.6	16.4	73.0	27.0	72.0	28.0
Home Science	—	100.0	—	100.0	0.1	99.9	0.1	99.9
Social Work	85.8	14.2	75.0	25.0	56.0	44.0	70.0	30.0
Law	—	—	—	—	89.5	10.5	90.0	10.0
College of Indian Music, Dance and Dramatics	80.0	20.0	63.3	36.7	44.1	55.9	49.4	50.6
Baroda Sanskrit Mahavidyalaya	—	—	85.7	14.3	80.0	20.0	90.0	10.0
Preparatory Units	—	—	—	—	—	—	—	—
Polytechnic	—	—	80.7	19.3	75.2	24.8	72.3	27.7
M. K. Amin Arts and Science	—	—	99.6	0.4	99.4	0.6	99.9	0.1
College of Commerce, Padra.	—	—	—	—	90.8	9.2	86.3	13.7

Student Enrolment in post-graduate Courses has shown a steady rise from 1950-51. It was 304 to start with and reached 2,074 in 1976-77.

In 1950-51 there were 2,161 undergraduate students in the different Faculties and Institutions of the University. The figure for 1976-77 is 15,878.

### Percentage of Student Enrolment

Faculty	1972-73	1973-74	1974-75	1975-76	1976-77
Arts	12.2	12.3	14.7	13.2	12.1
Science	9.0	8.7	8.5	7.7	8.0
Education and Psychology	2.5	2.5	1.8	2.2	2.1
Commerce	15.4	16.0	17.4	17.0	15.0
Medicine	4.4	4.2	3.7	4.2	4.3
Technology and Engineering	14.5	14.4	12.7	13.8	14.8
Fine Arts	1.3	1.3	1.2	1.4	1.6
Home Science	4.6	3.8	3.5	4.5	4.9
Social Work	0.5	0.5	0.4	0.5	0.4
Law	4.9	5.8	8.2	5.5	5.8
Preparatory Unit—Arts and Commerce	8.8	8.6	9.0	10.0	11.7
Preparatory Unit—Science	5.4	5.8	5.0	5.7	6.4
M. K. Amin Arts and Science					
College and College of Commerce, Padra.	8.1	7.4	4.6	4.9	3.1
College of Indian Music, Dance and Dramatics	0.5	0.5	0.4	0.4	0.5
Sanskrit Mahavidyalaya	0.3	0.3	0.3	0.3	0.3
Polytechnic	7.2	7.9	8.6	8.7	9.0
	100.00	100.00	100.00	100.00	100.00

### University Teachers

University Teachers and the Staff-Student Ratio : The total number of teachers (including Teaching Assistants, Assistant Lecturers, Senior/Junior Instructors, Honorary Research and Part-time Lecturers) in the Faculties and Institutions of the University during the year under report is 1,013 (including 127 teachers of the Medical College) as against the total student enrolment of 20,664. This gives an over-all teacher-student ratio of 1 : 20.4. The corresponding strength of University teachers and staff-student ratio over the last five years is indicated below :

Year	No. of University Teachers	Students Enrolment	Staff-Student Ratio
1972-73	954	17,986	1 : 18.9
1973-74	980	18,551	1 : 18.9
1974-75	1,037	23,740	1 : 22.9
1975-76	1,012	21,138	1 : 20.9
1976-77	1,013	20,664	1 : 20.4



### Hostel and Health Services

Halls of Residence : With the rapid increase in student enrolment, the pressure of demand from students for residential accommodation in the University Halls of Residence has been on the increase. All possible steps are being taken to increase the hostel facilities for 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 12 Halls for men and 4 for women students. There were 2,533 men students and 750 women students in different Halls. The percentage of students residing in the University Hostels works out to 15.9. The corresponding figures for the five years are as under :

Year	Students residing in Hostels			Percentage of Resident Students to the Total Enrolment		
	Men	Women	Total	Men	Women	Total
1972-73	2,368	844	3,212	13.1	4.7	17.8
1973-74	2,473	839	3,312	13.3	4.5	17.8
1974-75	2,545	800	3,345	10.7	3.4	14.1
1975-76	2,676	771	3,447	12.7	3.6	16.3
1976-77	2,533	750	3,283	12.3	3.6	15.9

Health Service : The University staff, their families and the students avail the Health Centre facilities provided by University Health Centre. The following are the figures for the cases treated and daily average attendance over a period of last five years.

Year	No. of Cases Treated					
	Staff and their families	%	Students	%	Total Cases	Daily average attendance
1972-73	10,638	32.5	22,115	67.5	32,753	89.3
1973-74	9,391	37.6	15,602	62.4	24,993	90.9
1974-75	10,875	37.2	18,390	62.8	29,265	80.2
1975-76	9,001	30.1	20,899	69.9	29,900	81.9
1976-77	9,208	30.2	21,295	69.8	30,503	103.4

At the University Health Centre, 1,260 laboratory investigations and 609 fluoroscopic examinations were carried out during the year.

Noticing the difficulties of the employees staying outside the Campus area in taking advantage of the Health Centre, the University has provided health facilities to these employees, at two Centres (established in 1973-74)—one near Kothi and the other in Bajawada and Pratapnagar localities. During 1976-77, 10721 cases were registered at these two city centers

### Developments

During the year under report, 2 new courses viz. Post-Diploma Diploma in Automobile Engineering and Post-Diploma Diploma in Construction (Civil) Engineering were started at the M. S. University Polytechnic. The Post-Diploma Diploma in Refrigeration and Air-Conditioning was transferred from the Faculty of Technology and Engineering to the Polytechnic.

The development activities during the preceding years are described in the twenty-seven Annual Reports that have been published so far. This the twenty-eighth Annual Report covers the period from 1st April, 1976 to 31st March, 1977 and is submitted to the Senate in accordance with Section 24 (2) of the Maharaja Sayajirao University of Baroda Act as amended upto date.



## CHAPTER I—GENERAL

### 1. Institutions in the University

Constituent and Recognised Institutions (Under Sections 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, (18) Museum and Picture Gallery, and (19) Centre for Continuing/Adult Education and Community Services.

### 2. Number of Students

The number of University students during the year was 20,664 (15,279 men students and 5,385 women students) and that of non-University students was 1,723 (1,069 men students and 654 women students). The details of the students are given in Appendix I and II.

### 3. Special Features of the year

#### (1) Convocations:

- (i) The twenty-sixth Annual Convocation was held in the Senate Hall, University Office, Baroda on Sunday, 21st November, 1976. Shri Fatehsinhrao P. Gaekwad, Chancellor presided. 3,466 degrees and diplomas were conferred *in Absentia*.
- (ii) The seventeenth Supplementary Convocation was held in the Senate Hall, University Office, Baroda on Sunday, 27th March, 1977. Professor P. J. Madan, Vice-Chancellor presided. 603 degrees and diplomas were conferred *in Absentia*.

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

#### (2) New Developments:

The University started the following new courses:

- (a) Post-Diploma Diploma in Construction (Civil) Engineering.

- (b) Post-Diploma Diploma in Automobile Engineering.

The Post-Diploma Diploma Course in Refrigeration and Engineering which was being given at the Faculty of Technology and Engineering has been transferred and run at the University Polytechnic.

#### (3) Fifth Plan Development Schemes:

- (a) The following teaching, research and non-teaching posts which are approved by the University Grants Commission in the Fifth Five Year Plan are also approved by the Government of Gujarat for the purpose of payment of matching share and also for taking over the liability when financial assistance from the University Grants Commission ceases:

(i) Professors	10
(ii) Readers	20
(iii) Lecturers	20
(iv) Research Assistants	3
(v) Library Assistant	1
(vi) Technical Assistant	1
(vii) Attendant	1

- (b) The Government of Gujarat has also agreed to provide the matching share of Rs. 16,00,000 towards construction of the various buildings approved by the University Grants Commission in the Fifth Five Year Plan.

#### (4) Buildings:

##### (a) Completed:

- (i) Building under the scheme of five year integrated degree course in Civil, Mechanical, Electrical and Metallurgical Engineering,
- (ii) Building for the Department of Bio-Chemistry under Special Assistance Programme,
- (iii) Building for Post-graduate Laboratory for Highway Engineering and Library.

##### (b) Under Construction:

- (i) Library Building for Under-graduate Students,
- (ii) Building for Pharmacy Department.

#### (5) Conferences, Seminars, Workshops:

- (i) Seminar on 'Water Treatment and Distribution' sponsored by the Indian Society of Technical Education, Madras, from 3rd May, 1976.



- (ii) Workshop in History sponsored by the University Grants Commission from 8th May, 1976.
- (iii) Refresher Course in Museology sponsored by the University Grants Commission from 11-10-1976.
- (iv) Short-term Institute in Structural Geology financed by the University Grants Commission from 26-10-1976.
- (v) Forty Second Annual meeting of Indian Academy of Science from 12-11-1976.
- (vi) Workshop in Architectural Education financed by the University Grants Commission from 4-12-1976.
- (vii) 3rd Annual Conference of the Association of Clinical Bio-chemists from 8-1-1977.
- (viii) Seminar on Medieval History and Archaeology sponsored by the University Grants Commission from 19-2-1977.

(6) *Silver Jubilee Fund:*

The donations received upto 31-3-1976 were Rs. 10,40,406-91. During the year under report, donations of Rs. 21,08,705-69 were received from various Industries, Co-operative and other Societies, Banks, Faculties and Institutions. The total amount of donation at the end of the year 1976-77 was Rs. 31,49,112-60. The University has also decided to continue its efforts for collection of funds in the year 1977-78. The details of the donations received are as under:

Donors	Upto 31-3-1975	1-4-1975 to 31-3-1976	1-4-1976 to 31-3-1977
	Rs. P.	Rs. P.	Rs. P.
(i) Maharaja Fatehsinhrao	1,00,000-00	—	—
(ii) Municipal Corporation	1,00,000-00	—	—
(iii) Princess Vimla Raje	10,000-00	—	—
(iv) Faculties and Institutions	1,20,533-19	1,51,764-47	29,892-28
(v) University Students' Association	7,165-00	6,834-00	1,000-00
(vi) Alumni (Baroda)	5,894-00	34,597-00	20,000-00
(vii) Alumni (Surat)	—	34,522-00	—
(viii) Alumni (Abroad)	5,130-50	7,135-50	14,443-16
(ix) Shakespeare Society	—	5,000-00	—
(x) German Language Society	—	3,900-00	—
(xi) Karmachari Mandal	251-00	—	—
(xii) Banks	—	7,751-00	3,00,501-00
(xiii) Shri Dinesh Mills	—	1,00,000-00	98,068-00
(xiv) Transpek Industries	—	1,00,000-00	—
(xv) Pujya Dongre Vedadhyana	—	1,01,000-00	99,000-00
(xvi) Shreno Ltd.	—	40,000-00	—

Donors	Upto 31-3-1975	1-4-1975 to 31-3-1976	1-4-1976 to 31-3-1977
	Rs. P.	Rs. P.	Rs. P.
(xvii) Tata Endowment Trust	—	10,000-00	10,000-00
(xviii) Indian Organic Co.	—	10,000-00	—
(xix) Walchand Trust	—	—	5,000-00
(xx) G.S.F.C.	—	—	3,00,000-00
(xxi) Friends Co-op. Housing Society	—	—	15,000-00
(xxii) Yesha Electricals	—	—	25,000-00
(xxiii) Tata Chemicals	—	—	5,000-00
(xxiv) O.N.G.C.	—	—	1,00,000-00
(xxv) Sarabhai Group	—	—	1,50,000-00
(xxvi) Hindustan Brown Boveri	—	—	1,00,000-00
(xxvii) Indian Oil Corp.	—	—	1,00,000-00
(xxviii) Smt. Subbalaxmi Programme	—	—	70,000-00
(xxix) Aims and Oxygen	—	—	4,000-00
(xxx) Alembic Chemicals	—	—	50,000-00
(xxxi) I.P.C.L.	—	—	6,00,000-00
(xxxii) Other Donations	35,469-00	19,156-25	10,417-00
(xxxiii) Sale of Seals	15,566-50	8,737-50	1,384-25
Total :	4,00,009-19	6,40,397-72	21,08,705-69
(a) Upto 31-3-1975	4,00,009-19	—	—
(b) Upto 31-3-1976	—	10,40,406-91	—
(c) Upto 31-3-1977	—	—	31,49,112-60

#### 4. Teaching Staff

The teaching staff (excluding 127 in Medical College) consisted of 61 Professors, 130 Readers, 596 Lecturers, 48 Teaching Assistants, Assistant Lecturers, Instructors and Ustads, 51 Honorary, Part-time and others, the total being 886 (Appendix IV).

#### 5. Facilities to the Teaching Staff for further Studies

(i) The following teachers who were granted facilities for studies, research, training etc. earlier, returned to the University:

Sr.No.	Name of the Teacher	Qualifications/training or experience acquired
1	2	3
1.	Dr. K. T. M. Hegde, Reader in Environmental Archaeology	Presented papers in two international conference at Washington D.C. 14-15 March, 1977,



1	2	3
2. Shri M. M. Siddiqui, Lecturer in Persian	Completed a Cultural Tour Arab Countries.	
3. Prof. K. C. Panchanadikar, Professor and Head, Department of Sociology	(1) Worked as a Visiting Professor in Sociology, El Colegio de Mexico (Unesco sponsored. International Institute for Latin-America) Mexico City (January, 1974-August, 1976). (2) Acquired Knowledge of Spanish and of Latin-American Society, Culture and History. (3) Worked as a Co-ordinator for South Asia at the 30th International Congress on Human Sciences in Asia and North Africa (formerly called World Congress of Orientalists) Mexico city, August, 1976. (4) Worked as a Convener for the Proposed Asian Association for Rural Sociology—a Regional Affiliate of the World Congress of Rural Sociology,—at the session of the Fourth World Congress of Rural Sociology at Copernicus University, Torun, Poland. August, 1976. (5) Visited Educational and Cultural Institutions at Boston, Syracuse, London, Cambridge, Oxford, Paris, Amsterdam, Rome, Vienna, Warsaw, Leningrad, Moscow. June-August, 1976.	
4. Dr. A. G. Phatak, Reader in Statistics	Did advance research in Statistics at University of Wyoming, U.S.A.	
5. Dr. N. Radhakrishnan, Lecturer in Zoology	Carried on Research work 'Aspects of stress induced Physiological changes in mammals' at Simon Frezer University, Canada.	
6. Dr. P. K. Hiradhar, Lecturer in Zoology	Participated in the VIII International Research Group in Developmental embryology at the International Institute for	

1	2	3
		Embryology at Hubracht, Luboretous, Holland.
7. Shri Dhaval J. Mehta, Research in Business Administration	Completed the job assignment in U.S.A.	
8. Smt. Anjali D. Mehta, Reader in Child Development	Completed the assignment as Assistant Professor in the Department of Human Ecology, Hamptan Institute, Hamptan Virginia, U.S.A.	
9. Shri P. N. Sutaria, Lecturer in Civil Engineering	M.E. (Civil Hydraulic Struct. Degree), Faculty of Technology and Engineering.	
10. Shri N. R. Saraf, Lecturer in Electrical Engineering	M.E. (Electrical Engineering Automatic and Control Engineering), Faculty of Technology and Engineering.	
11. Shri D. N. Patel, Lecturer in Mechanical Engineering	M.E. (Mechanical-Production Engineering), Faculty of Technology and Engineering.	
12. Shri G. D. Bhatt, Lecturer in Mechanical Engineering	M.E. (Mechanical-Production Engineering), Faculty of Technology and Engineering.	
13. Shri V. H. Kapadia, Lecturer in Textile Engineering	M.E. (Textile Engineering), Faculty of Technology and Engineering.	

(ii) The following teachers were granted facilities for Higher Studies, Research, Visit etc. in India or abroad:

Sr. No.	Name and Designation of the Teacher	Purpose
1	2	3
1.	Dr. P. K. Bhattacharya, Reader in Chemistry	To accept Fellowship award through U.G.C. under Indo-U.S. Programme to work at Ohio State University, U.S.A.
2.	Dr. L. J. Parekh, Reader in Bio-chemistry	To work with Prof. Steinkraus at Geneva, New York under UNDP Programme.



3. Dr. S. S. Sail,  
Lecturer in Bio-chemistry To work with Prof. H. C. Morgam, Department of Phytological Bio-chemistry University of Glasgow, Scotland, U.K. and UNDP Programme.
4. Dr. (Kum.) S. D. Telang,  
Lecturer in Bio-chemistry To work at Neurochemistry Institute, Stresbourg, France.

The following teachers of the Faculty of Technology and Engineering were given permission to do their M.E. in the subject of their specialization:

Sarvashri S. P. Shah, P. D. Vyas, M. M. Ghodake (Civil), G. R. Contractor, A. K. Mangalam, K. K. Mistry, K. B. Parikh (Mechanical), S. K. Agrawal, D. K. Basu, S. C. Khurana, R. R. Vishwakarma (Metallurgical), and J. H. Mehta (Electrical Engineering).

#### 6. University Examination Results

Fifty-four candidates were declared qualified for the award of Ph.D. degree of this University during the year 1976-77. A statement showing the names, subjects and titles of the thesis is given in Appendix V.

Statements showing the results of University examination held in (i) March-April-May-June, 1976 and (ii) October-November, 1976 are given in Appendices VI and VII.

#### 7. Endowments and Donations: The Syndicate accepted the following donations during the Year

Name of the Fund	Amount of Donation Rs.	Purpose
1	2	3
(i) Shri A. K. Nimkar, Memorial Prize Fund donated by Shri M. S. Nimkar, Bombay	2,500/-	For awarding every year a prize in cash to a candidate passing the final year B.Com. examination with atleast second class at the first attempt, obtaining the highest number of marks in aggregate thereat on the basis of which classes are awarded.
(ii) Ramchandra Shivram Ponkshe, Prize Fund donated by Dr. G. R. Ponkshe	2,500/-	For awarding every year a prize in cash to a student who has passed the Final year B.E. (Mechanical) Engineering Examination taking the group 'Production Engineering' i.e. 'Tool

1	2	3
		Engineering' (Elective Paper I) and 'Production Planning and Control (Elective Paper II) allowing for any changes of subjects in elective of this group, held by the M. S. University of Baroda in March/April, in first class, at the first attempt, obtaining the highest number of marks in the aggregate.
(iii) Dr. Leela Shah Memorial Gold Medal Fund donated by Shri Chandulal J. Shah, Ahmedabad	8,000/-	For awarding a Gold Medal to a student who has passed the M.Sc. (Home) Final degree examination held by the M. S. University of Baroda in March/April with specialization in Home Science Education and Extension, obtaining highest quality point in the category of 'A' grade at the first attempt.
(iv) Nimkar Prize Fund donated by Shri V. K. Ninkar, Bombay	2,500/-	For awarding a prize in cash to a student who has passed the final year B.Sc. Examination held by the M. S. University of Baroda in March/April, with atleast second class at the first attempt, obtaining the highest number of marks in aggregate thereat from amongst all the students who have appeared for the said examination.
(v) Shri C. M. Patel Memorial Gold Medal in Mechanical Engineering Fund donated by the Trustee, C. M. Foundation (C/o. Chandan Metal Products Pvt., Ltd., Vadodara)	8,000/-	For awarding a Gold Medal to a student who has passed the B.E. (Mechanical) Final Year Examination taking corresponding Group 'Tool Engineering' (Elective Paper II) held by the M. S. University of Baroda in March/April, in first class at the first attempt, obtaining the highest number of marks in the corresponding Group (i.e. out of total marks of Elective Papers I and II).



1	2	3
(vi) Shri C. M. Patel Memorial Gold Medal in Chemical Engineering Fund donated by the Trustee, C. M. Foundation (C/o. Chandan Metal Products Pvt. Ltd., Vadodara).	8,000/-	For awarding a Gold Medal to a student who has passed the B.E. (Chemical) Final Year 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 in aggregate thereat.
(vii) Prof. Navinchandra Ambalal Shah Memorial Prize Fund donated by Smt. Kalavati Ambalal Shah, Bombay	5,000/-	For awarding a prize in cash to a student who has passed the B.E. III (Civil) Engineering Examination at the first attempt, obtaining the highest number of marks in aggregate in the subject of 'Surveying II' and 'Surveying III' from amongst all the students who have appeared at the said Examination in First Semester and Second Semester held by the M. S. University of Baroda in October/November and April/May respectively.
(viii) Shri Janardan C. Mehta Memorial Gold Medal Fund donated by Smt. S. J. Mehta, Lecturer in Education, Faculty of Education and Psychology	8,000/-	For awarding a Gold Medal at the Annual Convocation to a student who has passed the Final Year B.A. Examination held by M. S. University of Baroda in March/April, with atleast first class, at the first attempt obtaining the highest number of marks in aggregate thereat.

#### 8. Finances of the University

##### (1) Capital Accounts:

Statements showing the income and expenditure of the (i) University General Fund, (ii) Ayurvedic Research Fund, (iii) Post-graduate Instruction and Research Fund during the financial year 1976-77 are given in Appendix VIII.

##### (2) Revenue Accounts:

The receipts and disbursements during the financial year 1976-77 were Rs. 2,39,31,288-21 and Rs. 2,85,57,273-04 respectively leaving a deficit of Rs. 46,25,984-83. Details of the Accounts are given in Appendix IX.

#### (3) Grants:

The University received grants totalling Rs. 87,46,868-19 on development schemes from the University Grants Commission and Government of Gujarat, and for various research schemes, studies project etc. from the Central Ministries, State Government Departments, C.S.I.R. United States Department of Agriculture, Ford Foundation and other outside agencies. The details are given in Appendix X.

#### 9. Construction Division

##### (1) Capital Works:

The Division supervised the construction of various building extension, additions and alterations and an amount of Rs. 9,21,294-76 was spent during the year on Capital Works.

##### (2) Ordinary and Special Repairs:

The expenditure on Ordinary Repairs during the year was Rs. 2,62,361-88 and on Special Repairs was Rs. 84,153-23.



## CHAPTER II—OFFICERS OF THE UNIVERSITY

### Officers

- (1) Chancellor
- (2) Vice-Chancellor
- (3) Pro-Vice-Chancellor
- (4) Deans:
  - (i) Arts
  - (ii) Science
  - (iii) Education and Psychology
  - (iv) Commerce
  - (v) Medicine
  - (vi) Technology and Engineering
  - (vii) Law
  - (viii) Fine Arts
  - (ix) Home Science
  - (x) Social Work
- (5) Registrar
- (6) Librarian
- (7) Other Officers:
  - (i) Dean, Medical College
  - (ii) Director, Oriental Institute
  - (iii) Principal, College of Indian Music, Dance and Dramatics
  - (iv) Principal, Sanskrit Mahavidyalaya
  - (v) Principal, Polytechnic

### Faculty

Shri Fatesinhrao Pratapsinhrao Gaekwad  
 Professor P. J. Madan,  
 B.Sc. (Engg.) (Edin), D.I.C., M.Sc. (Engg.) (London), M.Inst. H.E. (London), F.I.E. (India).  
 Professor S. M. Sethna,  
 M.Sc., Ph.D. (Bom.)

### Dean

Professor A. G. Javdekar  
 Professor S. S. Merh  
 Professor A. S. Patel  
 Professor H. P. Chokshi  
 Dr. V. P. Bhatt  
 Professor S. M. Sen  
 Shri N. J. Shah (Upto 3-11-1976)  
 Professor H. C. Dholakia  
 (from 4-11-1976)  
 Dr. Ratan Parimoo  
 Professor (Kum.) Padma S. Chari  
 Shri S. R. Yardi  
 Shri K. A. Amin  
 Dr. L. M. Padhya

### Name

Dr. V. P. Bhatt  
 Professor A. N. Jani  
 Shri M. J. Bhatt  
 Dr. P. K. Dongre  
 Professor R. C. Patel  
 (upto 30-11-1976)  
 Professor M. R. Panchal  
 (from 1-12-1976)

### Designation

### Name

- (vi) Principal, M. K. Amin Arts and Science College and College of Commerce, Padra
- (vii) Head, Preparatory Unit— Arts and Commerce
- (viii) Head, Preparatory Unit— Science
- (ix) In-Charge, Director, Centre for Continuing / Adult Education and Community Services



### CHAPTER III—THE SYNDICATE AND THE SENATE

#### 1. The Syndicate

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

1. Professor P. J. Madan, Vice-Chancellor
2. Professor S. M. Sethna, Pro-Vice-Chancellor
3. Director of Education or his nominee
4. Shri Charan Singh Chawla
5. Professor H. P. Chokshi
6. Dr. C. P. Munshi
7. Shri F. H. Palejwala
- \*8. Shri J. A. Pandya
9. Shri N. M. Pandya
10. Shri C. M. Parikh
11. Shri D. K. Patel
- †12. Dr. M. A. Patel
13. Dr. T. V. Patel
14. Professor S. M. Sen
15. Dr. S. K. Shah
16. Shri P. B. Zaveri

During the year the Syndicate held 18 meetings at which they considered and passed resolutions on 849 items. The following statement shows the attendance of the members at the Ordinary and Special meetings of the Syndicate during the year:

Name	No. of meetings held	Class of meetings O.=Ordinary S.=Special	Present
1	2	3	4
Professor P. J. Madan, Vice-Chancellor	18	O. 11 S. 7	O. 11 S. 7
Professor S. M. Sethna, Pro-Vice-Chancellor	18	O. 11 S. 7	O. 11 S. 7

\*Ceased to be a member from 15-9-1976.  
†Became a member from 21-11-1976.

1	2	3	4
Director of Education or his nominee	18	O. 11 S. 7	O. — S. 1
Shri Charan Singh Chawla	18	O. 11 S. 7	O. 10 S. 6
Professor H. P. Chokshi	18	O. 11 S. 7	O. 11 S. 6
Dr. C. P. Munshi	18	O. 11 S. 7	O. 11 S. 6
Shri F. H. Palejwala	18	O. 11 S. 7	O. 11 S. 7
*Shri J. A. Pandya	6	O. 5 S. 1	O. 5 S. 1
Shri N. M. Pandya	18	O. 11 S. 7	O. 11 S. 6
Shri C. M. Parikh	18	O. 11 S. 7	O. 9 S. 5
Shri D. K. Patel	18	O. 11 S. 7	O. 11 S. 7
†Dr. M. A. Patel	9	O. 5 S. 4	O. 5 S. 3
Dr. T. V. Patel	18	O. 11 S. 7	O. 7 S. 3
Professor S. M. Sen	18	O. 11 S. 7	O. 9 S. 6
Dr. S. K. Shah	18	O. 11 S. 7	O. 11 S. 6
Shri P. B. Zaveri	18	O. 11 S. 7	O. 9 S. 5

#### 2. The Senate

The term of the office of the Ordinary members ended on 14th September, 1976 and elections were held in August/September, 1976:

(i) The following are the members of the Senate :

- |  |                           |
|--|---------------------------|
| 1. Shri Fatehsinhrao Pratapsinhrao Gaekwad | 6. Professor S. M. Sethna |
| 2. Professor P. J. Madan                   | 7. Shri I. J. Patel       |
| 3. Dr. (Shrimati) Hansa Mehta              | 8. Professor R. D. Patel  |
| 4. Dr. Jyotindra M. Mehta                  | 9. Shri H. S. Sanghvi     |
| 5. Dr. C. S. Patel                         | 10. Principal A. R. Desai |
|  | 11. Dr. M. L. Dwivedi     |

\*Ceased to be a member from 15-9-1976.

†Became a member from 21-11-1976.



12. Shri V. R. Mehta
13. Her Highness Maharani Shantadevi Gaekwad of Baroda
14. Shri Morarji R. Desai,
15. Dr. Jivraj N. Mehta
16. Shri K. K. Shah
17. Shri K. A. Amin
18. Justice B. J. Divan
19. Shri Navalbhai N. Shah
20. Professor J. D. Birje Patil
21. Professor S. S. Merh,
22. Professor A. S. Patel
23. Professor H. P. Chokshi
24. Dr. V. P. Bhatt
25. Professor S. M. Sen
26. Professor H. C. Dholakia
27. Dr. Ratan Parimoo
28. Professor (Kum.) P. S. Chari
29. Shri S. R. Yardi
30. Shri J. D. Desai
31. Dr. S. K. Shah
32. Shri I. A. Dave
33. Professor A. N. Jani
34. Shri Markand J. Bhatt
35. Dr. P. K. Dongre
36. Professor M. R. Panchal
37. Dr. L. M. Padhya
38. Dr. S. K. Bhowmik
39. Shri K. Ramamoorthy
40. Professor S. B. Kumta
41. Dr. H. N. Patel
42. Shri M. D. Patel
43. Shri Chhaganbhai P. Patel
44. Kumar Shri Pradyumansinhji
45. Shri Niranjan M. Pandya
46. Shri A. L. Redey
47. Professor D. B. Desai
48. Shri A. G. Patel
49. Dr. N. A. Dave
50. Shri T. D. Patel
51. Professor Jeram D. Patel
52. Professor (Smt.) Amita B. Verma
53. Shri K. M. Sharma
54. Shri J. P. Thaker
55. Shri H. J. Parikh
56. Dr. J. R. Pathak
57. Shri V. H. Shah
58. Shri R. R. Joshi
59. Shri M. D. Parikh
60. Shri M. R. Patel
61. Shri R. C. Shah
62. Dr. M. A. Patel
63. Shri D. R. Patel
64. Shri P. B. Zaveri
65. Shri J. P. Shah
66. Shri Nalinkumar K. Bhatt
67. Shri Charan Singh Chawla
68. Shri Bhupendra Maganbhai Patel
69. Shri Dilip Umakant Shah
70. Shri K. G. Patel
71. Shri S. S. Shukla
72. Shri T. C. Patel
73. Shri D. K. Patel
74. Dr. B. S. Verma
75. Dr. Thakorabhai V. Patel
76. Dr. C. P. Munshi
77. Shri Lalitchandra M. Patel
78. Dr. P. M. Luhar
79. Dr. S. P. Desai
80. Shri F. H. Palejwala
81. Shri Nanalal D. Chokshi
82. Shri J. S. Parikh
83. Shri Amarsinh B. Chaudhari
84. Shri Azim B. Tyabji
85. Smt. Aruna Sanat Mehta
86. Shri Upendrabhai M. Patel
87. Shri P. C. Hathi
88. Shri N. B. Amin
89. Dr. S. Varadrajan
90. Justice P. N. Bhagwati

\* Ceased to be members from 8-2-1977

91. Justice D. A. Desai
92. Justice N. M. Miabhoy
93. Dr. Jatinbhai V. Modi
94. Shri K. K. Leuva
95. Dr. (Mrs.) S. S. Sabnis
96. Shri Yogendra M. Makwana
97. Shri Chandrakant M. Parikh
98. Dr. C. B. Patel
99. Shri Jashwantlal Saubhagyachand Shah
100. Thakorabhai M. Patel

The Senate met twice during the year, on 21st November, 1976 and 27th March, 1977. Seventy-seven members attended the meeting on 21st November, 1976 and fifty-seven on 27th March, 1977.

#### *Meeting of November, 1976:*

The election of one Fellow to the Syndicate, one member on the Board of Visitors for the Faculty of Education and Psychology, two Fellows on the Board of Extra Mural Studies and three members on the Board of Accounts was held. Fellows were assigned to the Faculties. Lapsed grants amounting to Rs. 5,70,200-00 in the Capital Budget and Supplementary grants amounting to Rs. 3,000-00 in the Revenue Budget were sanctioned. Ordinances and Rules mentioned in the Pamphlet No. 17 of Hand-Book Part II-1967 were considered and passed except Items No. 5 and 12. The proposals for amendment of Statutes 91, 119, 113 and 200 were considered and passed. The Twenty-seventh Annual Report and the Twenty-seventh Annual Accounts of the University for the year 1975-76 were passed, and the excess of expenditure over the revised estimates for the year 1975-76 were also approved. The Report of the Board of Accounts for the year 1975-76 was considered and passed. The proposal of creating two Departments in the Faculty of Law and also the proposal of conferring an Honorary Degree 'Doctor of Lectters' *Honoris Causa* on Professor Chandravadan Chimanlal Mehta were passed. The proposal for institution of posts for the Faculty of Arts and Faculty of Technology and Engineering was considered and passed. The proposal for the institution of Medals and Prizes was passed and the Report of the action taken by the Vice-Chancellor under Section 11 (5) (a) of the Act in the matter of creating the Department of Law in the Faculty of Law was passed.

#### *Meeting of March, 1977:*

The election of one member on the Board of Visitors for the Faculty of Science and the Faculty of Social Work was held. Fellows were assigned to the Faculties. Annual financial statement comprising the revised estimates for the year 1976-77 and the estimates for the year 1977-78 were considered and passed. Ordinances and Rules mentioned in Pamphlet No. 18 of Hand-Book Part II-1967

Ceased to be member from 8-2-1977



were passed. The proposal for establishing a Department and a College was considered and passed. The proposal for institution of posts for the Faculty of Arts, Faculty of Science, Faculty of Education and Psychology, Faculty of Commerce, Faculty of Law, Faculty of Fine Arts, Faculty of Home Science and the College of Indian Music, Dance and Dramatics was considered and passed. The proposal for the institution of Medals and Prizes was passed.

## CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

### 1. Council of Post-Graduate Studies and Research.

The Council of Post-Graduate Studies and Research met on 2nd April, 1976; 3rd September, 1976 and 24th December, 1976. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate:

- (1) A Committee was appointed with powers of the Council to consider and recommend directly to the Syndicate (i) Proposals for continuation of the various research schemes previously approved and (ii) New Research Schemes for implementation during 1977-78.
- (2) Panels of names of referees to examine theses of 64 students for the award of Ph.D. degree in different subjects.
- (3) Recognition of 14 teachers as Post-graduate teachers for guiding students for Ph.D. degree in different subjects and for various post-graduate courses including the Faculty of Medicine.
- (4) A grant of Rs. 6,000/- for the year 1977-78 towards the Research work done by the Textile and Applied Industries Research Organisation, Baroda.
- (5) Approval of the amendment of the existing O. Ph.D. 1 (vi) relating to the Faculty of Home Science.
- (6) Extension of period to 6 students to submit their Ph.D. theses late under O. Ph.D. 4 (iii).
- (7) The eligibility for registration of candidates holding M.Sc. degree in Chemistry, Bio-Physics, or any Biological Science, M.Sc. (Home Science—Foods and Nutrition); M.Sc. degree holders in Agriculture, M.Sc. degree holders in Veterinary Science or M.Sc. degree holders in Medical Science for purposes of Ph.D. degree in Bio-Chemistry under the Faculty of Science be considered on individual merits under provision of O. Ph.D. 1 (vii).
- (8) No teacher of this University be permitted to work as a guide in other Universities and Institutions.

### 2. Faculties

There are ten Faculties in the University. Their meetings were held during the year as shown below. The Faculty of Social Work could not meet during the period under report:



Sr. No.	Name of the Faculty	Date of the meeting
1. Arts		( i ) 10- 1-1977 and ( ii ) 28- 2-1977
2. Science		5- 1-1977
3. Commerce		23-12-1976
4. Education and Psychology		11-12-1976
5. ( i ) Medicine		( i ) 5- 1-1977
( ii ) Joint meeting of the Faculties of Medicine and Science		( ii ) 15- 1-1977
6. Technology and Engineering		17- 1-1977
7. Fine Arts		11- 1-1977
8. Home Science		22-12-1976
9. Law		( i ) 10-10-1976 and ( ii ) 5- 3-1977

(1) Faculty of Arts :

The following were among the important recommendations of the Faculty :

- ( i ) The holders' of the degree of Shastri of the Sampurnandand Sanskrit Vishwa Vidyalaya, Varanasi be considered eligible for seeking admission to the M.A. degree course with Sanskrit as principal subject on reciprocal basis, if they have passed the Shastri examination as a regular candidate with "English" as one of the subjects.
- ( ii ) The proposal for the five years Veda courses in Visharad ( Diploma ) courses in five different branches Viz. : ( i ) Rgveda, ( i ) Krishna Yajurveda, ( iii ) Shukla Yajurveda, ( iv ) Samaveda and ( v ) Atharvaveda, be accepted and the courses introduced in the Baroda Sanskrit Mahavidyalaya with effect from the academic year, 1976-77 and the details of syllabi, etc. be approved as proposed.
- ( iii ) The Acharya degree examination of Rajasthan University, Jaipur, be recognised as equivalent to the Acharya degree examination of this University on reciprocal basis for purposes of registration for the Vachaspati degree of this University provided it is passed as a regular candidate. It is further recommended that Acharya degree examination of Rajasthan University be *not* recognised as equivalent to M.A. degree in Sanskrit of this University.

- ( iv ) Two additional papers in the subject of Gujarati be introduced as proposed, leading to M.A. with entire Gujarati.

- ( v ) An intermediate degree termed M.Litt/M.Phil be instituted after the M.A. and before the Ph.D., and the said degree be a pre-requisite for Ph.D. registration, provided that in exceptional cases, a candidate on the recommendation of the Department be permitted to be registered directly for the Ph.D. programme.

- ( vi ) The following additional alternative to the M.A. course in Group B/3 Paper I be introduced and the list of recommended books for the same be approved as proposed.

Group B/3 Paper I ( C ) : History of Russia and Soviet Union—1956-1961.

- ( vii ) Students be permitted to write a dissertation in lieu of the following two M.A. Part II papers :—

- ( 1 ) Paper VI : Political Sociology and
- ( 2 ) Paper VIII : Comparative Politics.

It is further recommended that students be permitted to write an essay in lieu of any one of the aforementioned M.A. Papers, or in lieu of M.A. Part I, Paper IV : Indian Government and Politics.

- ( viii ) The Faculty of Arts may allow Mathematics as minor subject to be offered at S.Y.B.A. with any major subject on reciprocal basis.

- ( ix ) O. A-23 d regarding permitting candidates to appear at the M.A. examination with new subjects or set of subjects after keeping four terms afresh be amended as recommended.

- ( x ) The Faculty of Arts appointed a committee to consider the question of the introduction of the semester system with complete continuous assessment at the under-graduate level as well as post-graduate level and to submit its report alongwith its recommendations in the matter to the Faculty for consideration.

- ( xi ) The students who have passed the Higher Secondary Examination ( XII Standard ) of the Gujarat State with "English" as one of the subjects either at Higher level or lower level as regular students, be considered eligible for admission to the F.Y.B.A. Class of this University, with effect from the academic year 1978-79 commencing from June, 1978. The Faculty amended the existing O. A1 to provide for the above stated recommendation.



(2) *Faculty of Science:*

The following were among the important recommendations of the Faculty:

- (i) Recommended that 30% internal evaluation introduced at the M.Sc. (Previous) and M.Sc. (Final) examinations in the subject of Zoology and the same be made effective from June/July, 1977 for M.Sc. (Previous) and followed for M.Sc. Final next year.
- (ii) Students who have passed the Higher Secondary Examination (XII Standard) of the Gujarat State with Science stream subjects (including "English" either Higher level or lower level) as regular students will be considered eligible for admission to the F.Y.B.Sc. Class of the Faculty of Science with effect from the academic year 1978-79 commencing from June, 1978.
- (iii) The existing B.Sc. and M.Sc. courses be restructured with a view to facilitating the introduction of the semester system and 100% internal evaluation for the B.Sc. and M.Sc. courses.
- (iv) The proposal to introduce a one-year M.Phil degree course after M.Sc. be accepted in principle.

(3) *Faculty of Commerce:*

The following were among the important recommendations of the Faculty:

- (i) The existing 3 papers prescribed under the special subject "Cotton Industries" of B.Com. be redesigned and be titled as "Marketing" and details of syllabi as proposed be revised and approved. This be made effective from June, 1977.
- (ii) Recommended to the Council of Post-graduate Studies and Research that there is no need to have special course work for the Ph.D. Studies under the Faculty of Commerce.
- (iii) Under the present circumstances the S.R. No. 51 dated 19th June, 1976 in the matter of the introduction of Semester system with complete internal continuous assessment be accepted in principle but the same cannot be implemented by 1980 unless and until certain pre-conditions are fulfilled.
- (iv) Students who have passed the Higher Secondary Examination (XII Standard) of the Gujarat State with Commerce stream subjects (including "English" either Higher level or lower level) as regular students, would be considered eligible for the F.Y.B.Com. class of this University with effect from the academic year 1978-79 commencing from June, 1978.

- (v) The system of double assessment for the M.Com. Part I and M.Com. Part II examinations be abolished and the system of dividing a question paper into two sections and distributing the answer-books section-wise to two separate examiners viz. one internal and the other external, be followed.

(4) *Faculty of Education and Psychology:*

The following were among the important recommendations of the Faculty:

- (i) 20% seats be reserved for Scheduled caste and Scheduled tribe students for purposes of admission to (a) B.Ed. and (b) Diploma course in Education as under:—  
7% for Scheduled caste students,  
13% for Scheduled tribe students.
- (ii) Candidates belonging to Scheduled caste/Scheduled tribe must have taken the first degree as regular or private candidates with atleast 40 percent marks in the aggregate for purposes of admission to the B.Ed. class if they are otherwise eligible as per existing rules. O. B.Ed. 1 was amended with a view to make the said provision.
- (iii) The existing O. D.Ed. 1 governing the admission requirements for the Diploma course in Education was amended in view of the introduction of 10+2+3 of Education in Gujarat. The S.S.C. (Old)/New S.S.C. Xth Standard passed students are held eligible for seeking admission to the Diploma course in Education if it is passed with "English" as one of the subjects and with atleast 50% marks in the aggregate.
- (iv) Candidates belonging to Scheduled castes/Scheduled tribes be admitted to the Diploma course in Education if they have passed the S.S.C. of 11 year pattern or the new S.S.C. examination at the end of Class X of Gujarat State with "English" as one of the subjects and obtaining atleast 40% marks of the aggregate if they are otherwise eligible as per existing rules.
- (v) The semester system and programme of continuous internal assessment exist in the Faculty of Education and Psychology as far as courses offered by the Departments of Education and Educational Administration are concerned. The question of introduction of semester system and a programme of continuous internal assessment for M.A. (Psychology) course be referred to the Board of Studies in Psychology for consideration.
- (vi) Every candidate for Ph.D. studies in the Faculty first be registered only provisionally. Before being finally every candidate registered



for Ph.D. studies, be required to submit three to four assignments on topics to be decided by a committee of experts (one expert to be from the other discipline) set up by the guide who would be the convener. A committee member would be a teacher recognised to guide Ph.D. candidates. The candidate would be required to undergo a course in Research Methodology within one year of registration.

(5) *Faculty of Medicine:*

The following were amongst the important recommendations of the Faculty:

- (i) Students who have passed the Higher Secondary Examination of the Gujarat State Board of Higher Secondary Education (after 12 years of Schooling) with Physics, Chemistry, Biology, Mathematics and English at higher level as regular students in preceding academic year be considered eligible for admission to the First M.B.B.S. course of the Medical College, Baroda under this University through the entrance test to be held by the Government of Gujarat and be made effective from the academic year 1978-79 commencing from June, 1978.

- (ii) Recommended that the following recommendation made by the College Council at its meeting held on 28th July, 1976 be accepted and the said provision be added in the existing rule No. 4 of the rules regarding Post-graduate studies of the Faculty of Medicine.

"Students at the Post-graduate level who changed their registration from main subject to allied subject or vice-versa will not be considered as having retrospective registration".

- (iii) Recommended that the request of Dr. A. A. Misra, a Post-graduate student and three other students made in their representation dated 17-11-1976 regarding reconsideration of the syndicate resolution No. 6 dated 20th April, 1974 in the matter of giving benefit of deleted O. M. 43 and O. M. 50 for registration for M.D./M.S. Degree in respective subjects of Diploma holders with a view to restore the previous provision in the matter for availing of the equal benefits in the same State be not granted.

- (iv) Recommended as under:—

- (a) The Semester system be introduced at the First M.B.B.S. course from June, 1977 in the first instance with a view to making beginning to implement the Syndicate Resolution No. 51 dated 19th June, 1976,

- (b) Appointment of a committee consisting of the following members for working out the details for implementing the semester system at the first M.B.B.S. course submitting its report directly to the Syndicate:

Dr. V. P. Bhatt, Dean (Convener)

Professor of Anatomy

Professor of Physiology.

Professor of Biochemistry.

- (v) The "Criteria for the selection of candidates" contained in the letter No. MCI-9 (5) 76-Med./8943 dated 15-6-1976 of the Secretary, Medical Council of India, New Delhi be accepted and the existing O.M. 44 (9), D.M. 65 (9) of the Hand-Book Part-III-1969 of the Faculty of Medicine and rule No. 1 (N) of the rules regarding post-graduate studies in the Faculty of Medicine be substituted accordingly.

- (6) *Joint meeting of the Faculties of Medicine and Science:*

- (i) Recommendations contained in the letter No. MCI-7 (1)/75. med. (a)/5085 dated the 1st June, 1975 of the Secretary, Medical Council of India, New Delhi be accepted and the students who have passed the Higher Secondary Examination (12th Std. Examination) of the Gujarat State Higher Secondary Education Board as regular students with English, Physics, Chemistry, Biology and Mathematics as subjects be considered, straightway eligible for admission to the First M.B.B.S. Course of the Medical College, Baroda under this University and their actual admissions be regulated through the appropriate entrance Test.

- (ii) Students who have passed the Preparatory Science or Inter Science i.e. F.Y.B.Sc. Examination with requisite subjects of this University in the year 1978 and onwards will also be considered eligible for appearing at the entrance Test for Regulating admissions to the First M.B.B.S. Course of the Medical College of Gujarat State".

- (iii) (a) A Committee consisting of the following Heads of Departments of the Faculty of Science be requested to scrutinize the syllabus prescribed for the respective subjects for + 2 years of the Higher Secondary Examination of the Gujarat State and prepare a note giving their considered opinion whether the said syllabus are equivalent to the syllabus prescribed for the Pre-Medical Course of the Faculty of Science of this University, making necessary recommendations for



incorporating the deficiencies in the syllabi prescribed for + 2 years of the Higher Secondary Examination by the Government in light of the discussion that took place at the joint meeting:—

Prof. S. S. Merh, Dean, Faculty of Science, Convener  
 Prof. J. D. Birje Patil, Head, Department of English.  
 Dr. K. N. Trivedi, Head, Department of Chemistry.  
 Prof. C. H. Pathak, Head, Department of Botany.  
 Prof. M. M. Patel, Head, Department of Physics.  
 Prof. R. V. Shah, Head, Department of Zoology.  
 Prof. V. M. Shah, Head, Department of Mathematics.

- (b) Resolved further that the note so prepared by the above Committee be forwarded to the authorities of the Gujarat State Higher Secondary Education Board and the Directorate of the Medical Health Services, Gujarat State with a request to modify the present syllabus prescribed for Higher Secondary Education accordingly and remove the deficiency if any so as to facilitate the students concerned to attain the minimum standards prescribed by the Medical Council of India for Medical Education in the country as a whole.

(7) *Faculty of Technology and Engineering:*

The following were among the important recommendations of the Faculty:

- (i) The proposed bifurcation of Scheme of Teaching and Examination of Post-Diploma Courses in Automobile Engineering from Yearly System to Semester System be modified and approved.
- (ii) The proposal to introduce continuous evaluation system in Post-graduate courses in all parts to cover 50% marks in each of the theory papers be approved and made effective from June, 1977. The continuous Internal assessment would be in form of seminars, home assignments, tests etc. and made effective from June, 1977 for all Post-Graduate courses of the Faculty.
- (iii) The proposal of the Head, Textile Engineering Department for introducing the subject of "Fluid Mechanics" at First Semester of Third Year Textile Engineering with modification in the Scheme of Teaching instead of 4 Lectures per week—4 (Four) Lectures + 1 one Laboratory practical of 2 hours per week be approved academically and made effective from academic year 1977-78. Where financial implications are involved in the implementation, prior approval of the Syndicate be taken.

- (iv) The proposal of Head, Department of Applied Mechanics for adding a new subject titled "Machine Foundations" at the Second Semester of B.E. V (Civil) as one of the electives under Soil Mechanics elective group, be approved academically, and made effective from June, 1977 provided there are no financial implications. Where financial implications are involved in the implementation, prior approval of the Syndicate be taken.

- (v) The proposal to revise the admission requirement for Post-B.Sc., B.Sc. (Tech.) in Textile Chemistry degree course made by the Dean, Faculty of Technology and Engineering approved by the Vice-Chancellor under Section 11(5)(a) of the Act, as under:  
 "To be eligible for admission, the candidate must have passed the B.Sc. examination with 55% aggregate marks and must satisfy one of the following requirements:

- (1) B.Sc. with Chemistry as Principal Subject and Physics and Mathematics as Subsidiary Subjects.

OR

- (2) B.Sc. with Chemistry as Principal Subject and Physics as Subsidiary Subject and F.Y. B.Sc. or Inter Science with Chemistry, Physics and Mathematics.
- (3) Students who produce College examination certificate with marksheet for passing F.Y. B.Sc. Examination of 1974, be considered eligible for admission to B.Sc. (Tech.) in Textile Chemistry degree course, as Gujarat University and South Gujarat University did not conduct examinations in that year, and this relaxation be made applicable only for F.Y. B.Sc. Examination held in 1974.
- (4) The above admission requirements be made applicable to students passing the qualifying recognised examinations from Gujarat State Universities and outside Universities or examining body concerned".

- (vi) The present 100 marks allotted for Term work for the subject of "History of Architecture" in the examinations of 1st and 2nd Semesters of 2nd Year B.Arch. be reduced to 50 marks and made effective from the academic year 1977-78.
- (vii) The proposal to introduce post-graduate degree course in Applied Chemistry be approved academically and that the recommendations made by the Committee appointed by the Board of Studies in Applied Chemistry, regarding Syllabi, Schemes of working and examination, admission requirements, standard of passing, award of classes etc. for the proposed degree course be approved.



- (viii) The proposed revision in the existing Syllabi prescribed for F.Text. Tech. (First Year First Semester) (Chemistry—I. F. Text. Tech.) First Year, Second Semester Chemistry II be approved with the modification that the proposed 25 marks for practical in Chemistry I and Chemistry II be raised to 75 marks and the same be made effective from the academic year commencing from June, 1977.
- (ix) The Syllabi for papers entitled "Electrical and Magnetic Materials" and "Solid State Devices" for the proposed M.E. Course in Materials Technology be approved academically and where there are financial implications in implementation of any of these recommendations, prior approval of the Syndicate be taken before implementing the recommendations.
- (x) (a) The proposal to introduce Semester System with complete internal continuous assessment at all levels be accepted in principle.
- (b) The proposal for introduction of grade system at the Under-graduate degree and Post-graduate degree courses be implemented from June, 1977.
- (c) The National Pattern of 7 Point Scale as recommended by the University Grants Commission be adopted and the following Committee be appointed to work out the details ;
  1. Professor O. H. Patel—Convener
  2. Professor C. C. Shah
  3. Professor R. C. Patel
  4. Professor K. N. Srivastava
  5. Professor S. K. Damle
  6. Professor Dipakkumar Dey
  7. Dr. V. Seshadri

The report of the committee be referred to the Syndicate directly for consideration as the recommendations of the Faculty in the matter.

- (d) The proposal of giving weightage of internal marks, viz. 50%, be also introduced in all Post-graduate degree courses and made effective from June, 1977 as has been introduced in Under-graduate Degree courses and Diploma courses from June, 1976 and the introduction of 50% internal marks in Diploma, Under-graduate and Post-graduate degrees be also made progressively.

- (xi) The recommendations made by the A.I.C.T.E. wide Government letter Nos. (i) TEM/76/2352-GH dated 17-9-1976 and (ii) F.5-7/76-T.2 dated 25-9-1976 be accepted in principle including the recommendation that there should be a uniform pattern of Four Year Engineering Course in all Engineering Colleges and that the entry to this course should be after 12 years of schooling (i.e. passing of the Higher Secondary XII examination) etc., be accepted. A Committee be appointed to work out the details in the light of the discussion that took place at the Faculty meeting. The report of the committee be referred to the Syndicate directly.
  - (xii) The minimum admission requirements for the following Diploma courses of the Polytechnic as well as the Faculty of Technology and Engineering be passing of the S.S.C. old (XI years pattern) of Gujarat State or New S.S.C. Examination of the Gujarat State with English, Mathematics and Science as subjects as recommended by the State Government and AICTE for Government Polytechnic to fall in line with the other Polytechnics in the State/Country :
    - (1) Diploma in Civil, Mechanical and Electrical Engineering
    - (2) Diploma in Civil, Mechanical and Electrical Engineering (Extended)
    - (3) Diploma in Petrochemicals
    - (4) Diploma in Industrial Electronics
    - (5) Diploma in Production Engineering
    - (6) Diploma in Textile Chemistry
    - (7) Diploma in Textile Technology
  - (xiii) The standard of passing and award of Classes for the Post-B.Sc. B.Sc. (Tech.) Textile Chemistry Degree be on par with the existing standard of passing and award of degrees at the post-B.Sc. three-year Degree Course in B.E. (Electronics) and be made effective from examinations of October/November, 1976.
- (8) Faculty of Fine Arts :

The following were among the important recommendations of the Faculty:

- (i) The students of the Ist year of the preparatory unit will have to pass fully for promotion to the 2nd year preparatory class. However if they have failed in one theory and in one practical course, they will be entitled to a supplementary test, provided they have secured at least 50% marks in the aggregate in all the theory and practicals taken together. Provided however that students of IInd Year Preparatory Class of the Preparatory Unit will have to pass fully for promotion to the specialization unit and that there will be no supplementary test for the benefit of failed students at the IInd Year Preparatory Class of the Preparatory Unit.



- (ii) The Internal Examination Results Committee consisting of all the Heads of the Departments of the Faculty of Fine Arts with the Dean of the Faculty as Chairman, be empowered to finalize the results of the Internal examinations conducted by the Faculty of Fine Arts.
- (iii) Degree courses in Painting, Sculpture, Applied Arts and Art History as well as Diploma courses in Painting, Sculpture and Applied Arts be of 4 year duration after passing the Higher Secondary XII Std. examination with "English" as one of the subjects from Gujarat State or an examination recognised as equivalent thereto with "English" as one of the subjects. This be made effective from June, 1978. Admission qualifications for the Diploma courses be reconsidered on the basis of the experience of the new four-year course.
- (iv) (a) The actual admissions to the various courses of the Faculty be granted on the basis of performance in the Aptitude Tests conducted by the Faculty.
- (b) The new Degree/Diploma course be an integrated course, discontinuing the existing break-up into preparatory and specialization unit.
- (c) The Aptitude Test be devised in such a manner as to enable the Faculty to select candidates for the different specialization streams. A committee be appointed to formulate appropriate Aptitude Test for the purpose. This provision be made effective from June, 1977.
- (d) The First Year in each discipline for the new courses be broad-based.
- (e) The intake as recommended by each Department, for Painting and Applied Arts will be 12 students for each of these courses every year and 6 each for courses in Sculpture and Art History.
- (f) The duration of the various certificate courses in the Faculty be 3 years. Students who have passed the S.S.C. Xth Std. Examination of the Gujarat State with "English" as one of the subjects be considered eligible for admission to the certificate course/s and their admission be regulated on the basis of an Aptitude Test. Each Department will prescribe introductory courses in the 1st year of the concerned certificate course. The Dean be authorised to work out the details with the help of the Heads of the Departments and

- teachers of certificate course, which will be implemented from June, 1977.
- (g) The existing admission requirements for the M.A. (Fine) Arts History and M.A. (Fine) Art Criticism courses be revised by adding following provision at the end :  
 "University graduates other than those in humanities be also considered for admission if they show proof of aptitude in the Fine Arts and familiarity with art objects and literature on art provided they are required to put in one additional year to cover the pre-requisites."
  - (v) The proposal to institute Post-graduate Diploma in Art Teaching replacing the existing course B.A. (Fine) Art Education be approved as proposed.
  - (vi) The existing subject "Foundation Art" prescribed for the Final Year B.A. Fine and Final Year Diploma in Applied Arts be split into two subject heads as under :
 

(a) Life Study	18 Hours	3 days
(b) Illustration	18 Hours	3 days
  - (vii) The Degree courses in Music, Dance and Dramatics be of 3 year duration after passing the Higher Secondary XII Std. Examination with "English" as one of the subjects from Gujarat State or an examination recognised as equivalent thereto with "English" as one of the subjects. The minimum age requirement will be 15 + as at present. This be implemented from June, 1978.
  - (viii) The Diploma Course in Dance be of 3 years' and in Music be of 5 years' duration after passing the new S.S.C. Xth Std. Examination of the Gujarat State irrespective of passing it with "English" as one of the subjects or an examination recognised as equivalent thereto irrespective of passing it with "English" as one of the subjects. There will be no minimum age requirement for admission to the Diploma courses. This be implemented from June, 1977.
  - (ix) The proposed admission requirements, details of syllabi etc. for the 3 year B.Mus. Degree courses in Music, Dance and Dramatics for the Post-Higher Secondary 10 + 2 + 3 pattern be approved as proposed and the same be made effective from the academic year 1978-79 commencing from June, 1978.
  - (x) The proposed syllabi for the Ist and IInd Year Post H.S.C. Diploma in Dramatics Course revised on account of the introduction of the Higher Secondary pattern be approved as proposed and be made effective from June, 1978.



- (xi) The proposed Post-Diploma Course in Dramatics specialization in Acting of one year's duration be introduced in the Department of Dramatics and the proposed admission requirements, details of syllabi, Scheme of examinations etc. be approved as proposed and be made effective from June, 1977. It may be clarified that there will be no financial implications on the recurring expenditure on additional Staff etc. by instituting this Post-Diploma Course.
- (xii) The proposal for making necessary arrangements for conducting the written examination from Ist to the Final Year Diploma examinations in Music, for Blind Students by providing them writers and special Junior Supervisors be approved and the authorities be requested to take further necessary action in the matter.
- (xiii) The proposal that the periods, for practicals in Music, Dance and Dramatics be given weightage on par with theory periods in the matter of calculating the workload be approved in view of the special nature of work, and the same be made applicable to the various Departments under the Faculty of Fine Arts.
- (xiv) The status of the existing Museology course be changed from the Post-graduate Diploma in Museology to Post-graduate Degree in Museology i.e. M.A. (Fine) Museology.
- (xv) The Department of Museology be permitted to provide instruction for the proposed Post-graduate Degree Course in Museology in-view of the fact that there will be no financial implications on the part of the University either recurring or non-recurring in implementing the course.
- (xvi) The proposed Post-graduate degree course in Museology be styled M.A. (Fine) Museology in line with similar other post-graduate degree courses of the Faculty.
- (xvii) The post-graduate Degree in Museology course be implemented from June, 1977.
- (xviii) The present College of Indian Music Dance and Dramatics be given the status of an independent Faculty and it be named the Faculty of Performing Arts as proposed and the relevant portion of the Act, Statutes, Ordinances, etc. be modified suitably, if necessary.
- (xix) The Syndicate Resolution No. 51 dated 19th June, 1976 in the matter of introduction of the semester system with complete internal continuous assessment be accepted in principle, subject to the special needs of each discipline under the Faculty of Fine Arts.

(9) *Faculty of Home Science:*

The following were among the important recommendations of the Faculty:

- (i) Introduction of six week compulsory Internship Non-credit Course in the existing Post-graduate Diploma in Pre-school Education Programme.
- (ii) Students who have obtained B.Sc. (Home) Child Development Degree of this University or a degree recognised as equivalent thereto be exempted from certain common courses prescribed for the Post-graduate Diploma in Pre-school Education by the Committee of senior members to be appointed by the Head of the Child Development Department after scrutinising each case individually.
- (iii) Students who have obtained the Diploma in Dietetics from this University be exempted from all the courses which they have done from the following courses prescribed at the M.Sc. (Home)—Foods and Nutrition course of this University but they will have to take related courses of 10 to 12 credits making up total 60 credits of M.Sc. (Home) Foods and Nutrition Programme:
 

F.N. 561 }	Food Science
F.N. 562 }	
F.N. 563 }	Quantity Cookery
F.N. 564 }	Organization and Management
F.N. 565 }	Advanced Physiology
F.N. 661 }	Bio-Physics
- (iv) The following are details regarding six-week compulsory Internship of 36 hours per week for the Post-graduate Diploma in Dietetics:
  - (1) (a) Part of the Internship be completed in the October/November Vacation.
  - (b) Remaining part of the Internship be completed in the March/April after Annual Examinations.
  - (2) The result of Post-graduate Diploma in Dietetics be withheld unless Internship requirements are completed.
- (v) The report of the Committee in the matter of introduction of the Ph.D. degree in the subject of Home Management be accepted by the Post-graduate Council.
- (vi) (1) Students who have passed as regular students the Higher Secondary Examination (after twelve years of schooling) or Examination recognised as equivalent thereto with English as one of the subjects, will be considered eligible for admission



to the first year of three year B.Sc. (Home) degree course of the Faculty of Home Science of this University from June, 1978.

- (2) (a) There will be 120 credits assigned for the B.Sc. (Home) General Programme of 3 years duration consisting of 6 Semesters out of which six credits will be assigned for English language course.
- (b) There will be 114 credits assigned for the B.Sc. (Home) specialization programme with an additional 6 credits for English language courses.
- (3) The Departments concerned would work out the details of the syllabi, scheme of examinations, etc. in the light of the discussion that took place in the meeting of the Faculty.

(10) *Faculty of Law:*

The following were among the important recommendations of the Faculty:

- (i) In view of the introduction of semester system of instruction and examination from the academic session 1976-77 in the Faculty of Law, the various semester examinations for the degree of LL.B. (General) and LL.B. (Special) be conducted as stated below:
  - (a) The First, Second and Third Semester Examinations for LL.B. (General) degree, and Fifth Semester Examination for the LL.B. (Special) degree be conducted by the Faculty of Law of the M. S. University of Baroda.
  - (b) The Fourth Semester Examination for the LL.B. (General) degree and the sixth semester examinations for the LL.B. (Special) degree be conducted by the University.
  - (c) Each Semester Examination for the LL.B. degrees may be held twice in every year.
  - (d) First Semester Examination be conducted by the Faculty of Law in October/November, 1976 for the first time and the remaining Semester Examinations for the LL.B. (General) and (Special) degrees be conducted progressively by the Faculty/University as stated in (i) and (ii) above.
- (ii) The existing O. 172 A be amended with a view to provide that no student who desires to pursue LL.B. Course shall be permitted to join any other degree or diploma course simultaneously and no student who has joined any other degree or diploma course in this University be simultaneously allowed to pursue LL.B. Course in the Faculty of Law.

- (iii) No candidate permitted to pursue two courses under the provisions of O. 172 A be allowed to appear at examinations for both the courses simultaneously during one and the same examination season.
- (iv) Two departments be created in the Faculty of Law as recommended by the Expert Committee.
- (v) The present system of splitting up of the LL.M. Courses into two years by units, at the end of each year be treated as a sufficient implementation of the introduction of the semester system from the academic year 1976-77 in the Faculty of Law.
- (vi) The old course LL.B. students who have availed of the benefit of 2 trials as per O. 262 A and have failed to pass the LL.B. Examination, be permitted to appear at the 1st Semester/2nd Semester Examinations of the First LL.B. Course or 3rd/4th Semester examinations of Second LL.B. Course or 4th/5th Semester Examinations of LL.B. (Special) Examination as the case may be without keeping fresh terms.
- (vii) No concession should be granted to Old Course LL.M. failed students in view of the fact that LL.M. is a Post-graduate degree course. The existing standard of passing must be adhered to.

### 3. Boards of Studies

There are 56 Boards of Studies in different subjects. The following 54 Boards met during the year as shown below :

Sr. No.	Name of the Board	Date of the meeting
1	2	3
1.	Sanskrit, Pali and Prakrit Language and Literature	8- 9-1976
2.	Persian, Urdu and other Asian Language and Literature	8- 9-1976
3.	Hindi Language and Literature	11- 9-1976
4.	Gujarati Language and Literature	10- 9-1976
5.	Marathi Language and Literature	9- 9-1976
6.	English Language and Literature	13- 9-1976
7.	Modern and Ancient European Language and Literature	10- 9-1976
8.	Sociology	17- 9-1976
9.	History, Archaeology and Ancient Indian Culture	6-10-1976
10.	Philosophy	10- 9-1976
11.	Linguistics	13- 9-1976



Sr. No.	Name of the Board	Date of the meeting
1	2	3
12.	Library Science	22- 9-1976
13.	Polytical Science	16- 9-1976
14.	Economics	11- 9-1976
15.	Physics and Meteorology	20- 9-1976
16.	Chemistry	7-10-1976
17.	Botany	21- 9-1976
18.	Zoology	21- 9-1976
19.	Bio-Chemistry	22- 9-1976
20.	Microbiology	16- 9-1976
21.	Geology	23- 9-1976
22.	Mathematics	11-10-1976
23.	Statistics and Acturial Science	24- 9-1976
24.	Geography	24- 9-1976
25.	Education and Educational Administration	27- 9-1976
26.	Psychology	14- 9-1976
27.	Banking and Business Finance	29- 9-1976
28.	Accounts	1-10-1976
29.	Commerce including Business Administration	30- 9-1976
30.	Co-operation	30- 9-1976
31.	Business Economics	1-10-1976
32.	Anatomy and Physiology	4-10-1976
33.	Pathological Sciences, Pharmacology and Forensic Medicine	5-10-1976
34.	Medicine, Surgery, Midwifery etc.	4-10-1976
35.	Physiotherapy	8-11-1976
36.	Technology (Textile)	13-10-1976
37.	Civil Engineering and Applied Mechanics	7-10-1976
38.	Mechanical Engineering	16-10-1976
39.	Metallurgical Engineering	8-10-1976
40.	Electrical Engineering and Electronics	9-10-1976
41.	Chemical Engineering	11-10-1976
42.	Architecture	11-10-1976
43.	Applied Chemistry	12-10-1976
44.	Applied Physics	12-10-1976
45.	Applied Mathematics	12-10-1976
46.	Law	13-10-1976
47.	Painting, Sculpture, Applied Arts, Art History and Graphic Arts	10-10-1976
		15-11-1976

Sr. No.	Name of the Board	Date of the meeting
1	2	3
48.	Music, Dance and Dramatics	9-10-1976
49.	Museology	14-10-1976
50.	Child Development	25- 9-1976
51.	Foods and Nutrition	25- 9-1976
52.	Home Science Education and Extension	8- 9-1976
53.	Clothing and Textile	28- 9-1976
54.	Home Management	13-10-1976

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 as under:

#### 1. University Board of Sports

Two meetings of the Board of Sports were held during the year. The Board appointed a Coach in Volleyball and recommended that (i) the University team should participate in the Inter-University Cycling Tournament, (ii) Rs. 6/- out of Rs. 9/- of Gymkhana fees be given to the M. K. Arts and Science College and College of Commerce, Padra for a further period of three years i.e. from 1976-77 to 1978-79, for development of Games at Padra, (iii) leave of absence on duty under O. 208 (4) be given to the staff of the University who are selected to participate in the tournaments and competitions in the various games.

#### 2. Publication Board

The Board met on 22nd September, 1976. It considered and recommended publication of the works viz. (i) two Journals of the Department of Zoology—Animal Morphology and Physiology and 'PAVO' (Ornithology) for the year 1976-77, (ii) the book entitled 'Political Geography of India—A collection of Essays, and (iii) Catalogue of theses. It also recommended the publication of the following works in the Gaekwad Oriental Series:

- (i) Reprint of Parasuramakalpasutra.
- (ii) Reprint of Nityotsava.
- (iii) Lalitasahasranama—Stotra.
- (iv) Saktisangamatantra Vol. IV.

#### 3. Library Committee

The Committee met on 13th July, 1976 and conducted its routine business.

#### 4. University Building and Planning Committee

- (i) The works for Special Repairs amounting to Rs. 2,74,578 were put to execution during the year under report against the S.R. works estimated at Rs. 3,62,208 approved by the Building and Planning Committee for the year 1975-76, after receipt of the sanction from the State Government in the month of October-November, 1976.
- (ii) The works for original Capital nature amounting to Rs. 1,58,000/- were put to execution during the year under report against such

works estimated at Rs. 3,68,750/- approved by the Building and Planning Committee for the year 1975-76 after receipt of the sanction in the month of November, 1976.

- (iii) The works in connection with water supply scheme in the University Campus amounting to Rs. 3,08,350/- were sanctioned by the State Government in the month of January, 1977 against the works amounting to Rs. 6,55,350/- approved by the Building and Planning Committee for the year 1975-76. These works were started during the year under reports.

The Committee met on 17th December, 1976 and 5th January, 1977 to consider the building works to be executed in the year 1977-78. It recommended the maintenance grant @ 1% of the Capital Value of the buildings of Rs. 3,75,27,504/- i.e. Rs. 3,75,275/- for Ordinary Repairs. The Committee also approved the works of Special Repairs, Original Capital Works and the works of water supply scheme in the University Campus for the year 1977-78 subject to approval of the State Government as per details shown as under:

- |  |                |
|--|----------------|
| (i) Special Repairs                                | Rs. 5,23,210/- |
| (ii) Original Capital Nature                       | Rs. 6,47,700/- |
| (iii) Water Supply Scheme in the University Campus | Rs. 1,24,000/- |

#### 5. Standing Committee on Equivalence of Examinations

The Committee met on 10th August, 1976 and 14th March, 1977. It considered a number of items regarding equivalence of various examinations. Decisions taken in the two meetings are as under:

- (i) The Preparatory (i.e. Pre-University) examinations in Arts, Science and Commerce and the F.Y.B.A., F.Y.B.Sc. and F.Y.B.Com. Examinations under three year degree courses in Arts, Science and Commerce of other Universities (including Sardar Patel University) or of examining bodies concerned already recognised by this University under O. 175 be deemed have been recognised as equivalent to the corresponding Preparatory Examinations in Arts, Science and Commerce, F.Y.B.A., F.Y.B.Sc. and F.Y.B.Com. examinations respectively of this University irrespective of the subjects passed at the S.S.C. (Old) Examination or its equivalent recognised examination for purposes of admission to available higher courses of studies, provided the students concerned are otherwise eligible for admission to the courses concerned as per existing rules.
- (ii) The provision contained in the S.R. No. 45 (1) dated 24th April, 1971 in the matter of recognition of the Preparatory (i.e. Pre-Uni-



versity) Arts, F.Y.B.A. examinations of other Universities or examining bodies concerned, subject to passing the S.S.C. (Old) examination or its equivalent examination with 'English' as one of the subjects prior to their joining the Universities/Institutions concerned be deemed as deleted in view of the above provision.

- (iii) The provision contained in the S.R. No. 19 (16) dated 20th March, 1976 in the matter of recognition of the Preparatory (i.e. Pre-University) examination in Commerce and Science; F.Y.B.Com. and F.Y.B.Sc. examinations of other Universities or examining bodies concerned subject to passing the S.S.C. (Old) examination or its equivalent examination with 'English', Physics and Chemistry and Algebra and Geometry (i.e. Higher Mathematics) as subjects, as the case may be, prior to their joining the Universities/Institutions concerned be deemed as deleted in view of the above provision.
- (iv) The B.Ed. degree examination conducted by the following statutory recognised Universities/Institutions in Thailand be recognised as equivalent to the B.Ed. examination of this University for purposes of seeking admission to the M.Ed. course of the Faculty of Education and Psychology, subjects to the condition that the students concerned must have passed the B.Ed. degree examination as a regular student after undergoing atleast 16 years of studies in the Schools/Colleges/Institutions concerned in Thailand and if they are otherwise eligible as per the rules laid down by this University for the purpose:

- (1) Chiangmai University, Chiang Mai Province—Thailand.
- (2) The Institute of Agricultural Technology, Chiang Mai.
- (3) Chulalongkorn University, Bangkok.
- (4) Kasetsart University, Bangkok.
- (5) Kuon Kaen University, Kuon Kaen.
- (6) King Mongkut's Institute of Technology, Bangkok.
- (7) Mahidol University, Bangkok.
- (8) The National Institute of Development Administration, Bangkok.
- (9) Prince of Songkla University, Pattani and Songkhola.
- (10) Ramkhamhaeng University, Bangkok.
- (11) Silpakorn University, Bangkok.
- (12) Sri Nakharinwirot University, consisting of 8 Colleges of Education which are listed below:
  - (a) The College of Education, Bangkok, Bangkok
  - (b) The College of Education, Bangsaen, Chonburi, Thailand,

- (c) The College of Education, Maha Sarakham, Thailand,
  - (d) The College of Education, Pathumern, Thailand,
  - (e) The College of Education, Pitsnake, Thailand,
  - (f) Physical Education College, Bangkok, Thailand,
  - (g) The College of Education, Prasarnmit, Bangkok, Thailand,
  - (h) The College of Education, Songhla, Thailand.
- (13) Thammasat University, Bangkok.
  - (14) Assumption College of Business Administration, Bangkok.
  - (15) Bangkok College, Bangkok.
  - (16) The College of Business Administration, Bangkok.
  - (17) College of Commerce, Bangkok.
  - (18) Kirk College, Muang District, Samut Prakarn Province.
  - (19) Patana College, Bangkok.
  - (20) Payap College, Muang District, Chiang Mai Province.
  - (21) Siam Technical School, Bangkok.
  - (22) South-East Asia College, Bangkok.
  - (23) Sri Patum College, Bangkok.
- (v) The holders of the B.Ed. degree in Physical Education of the Universities concerned from Thailand be *not* considered eligible for seeking admission to the M.Ed. course of the Faculty of Education and Psychology, Baroda of this University
- (vi) The eligibility applications which have already been received in respect of Thai students who intend to seek admission to the M.Ed. course of this University for the academic year 1977-78 on the strength of their having passed the B.Ed. degree examination from Buddhist University, Thailand, be kept in abeyance till the clarification regarding the status of that University is received from the Thai Embassy, New Delhi by this University and the Vice-Chancellor be authorised to pass necessary orders in these cases, subject to satisfying the provision contained in (iv) above.
- (vii) The Signals Officers Degree Engineering Course conducted by the Military College of Tele-Communication Engineering, Mhow (M.P.) be recognised as equivalent to the corresponding B.E. degree examination of this University on reciprocal basis for purposes of admission to P.G. Courses in Engineering in the corresponding fields of studies at the Faculty of Technology and Engineering of this University, provided the candidates concerned have passed the above mentioned examination with atleast 55% marks on the aggregate and they are otherwise eligible as per rules laid down for the purpose.



## 6. Preparatory Courses Committee

The General Education and the Preparatory Courses Committee met on 6th January, 1977. The Committee transacted the following business:

- (1) Recommended that in view of the introduction of 10+2+3 System of Education adopted in the State from the year 1976-77, the number of divisions for purposes of regulating admissions to the Preparatory Courses in Arts, Commerce and Science at the Preparatory Unit—Arts and Commerce and Preparatory Unit—Science, Baroda for the academic year 1977-78 be as under:
  - (a) Preparatory Arts, Baroda —Not more than 5 divisions.
  - (b) Preparatory Science, Baroda —Not more than 5 divisions.
  - (c) Preparatory Science, Baroda —Not more than 5 divisions.
  - (d) Preparatory Arts—M. K. Amin Arts and Science College and College of Commerce, Padra —Not more than 1 division.
  - (e) Preparatory Commerce—M. K. Amin and Science College and College of Commerce, Padra —Not more than 1 division.
  - (f) The present provision of instructions for the Preparatory Science Course at Padra College be discontinued from the academic year 1977-78 and onwards.
  - (g) The Preparatory Courses in Arts, Science and Commerce at Baroda as well as Padra be completely discontinued for fresh entrants with effect from the academic year 1978-79 and onwards.
- (2) Recommended the setting up of a Central Admission Committee for deciding admission policies for the Preparatory Courses in Arts, Science and Commerce for the year 1977-78.
- (3) Recommended that recommendations relating to the Syllabi, Books etc. made by the various Preparatory Sub-Committees in their respective subjects be approved for the Preparatory Courses in Arts and Commerce and for the Preparatory Science (English Paper I only) as proposed.

## 7. Committee of Deans and Heads of Institutions

The Committee held four meetings during the year and considered the following:

- (i) Introduction of New Pattern 10 + 2 + 3.
- (ii) Question of Examination Reforms.

- (iii) Amendment of Rule 4 of O. 193 B of Hand-Book—Part II—1967.
- (iv) Rules for granting exemption to the students from the N.C.C., N.S.S. and Physical Education with effect from the year 1976-77.

## 8. Finance and Establishment Standing Committee

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

The Committee met as the Budget Committee on 5th February, 1977. It submitted to the Syndicate the revised estimates for the year 1976-77 and the estimates for the year 1977-78 after scrutinizing various proposals received from Faculties, Institutions and Offices of the University.

## 9. Investment Committee

The Committee held eleven meetings during the year. The recommendations of the Committee in respect of investment of the University Funds were approved by the Syndicate.

## 10. Press Supervisory Committee

Nine meetings of the Committee were held during the year. They considered monthly reports of the Press Manager regarding the working of the Press, Stationery Unit and Publications Sales Unit and also Printing Programme and made recommendations regarding purchase of Paper, Stationery, Equipment etc.

## 11. Sir Sayajirao III Memorial Research Prize Fund Committee

The Committee met on 3rd December, 1976 for scrutinizing the essays on “વિજ્ઞાન અને આમ પુનર્દેશના” for the year 1975-76. The prize was awarded to Shri Kashinath V. Dave for writing the best essay for 1975-76. The Committee also recommended to invite essays on the subject “ગુજરાતનો ઔદ્યોગિક વિકાસ : તેની સમસ્યાઓ અને ક્ષિતિજો” for the year 1976-77.

## 12. Wardens' Committee

Three meetings of the Committee were held during the year and routine business was conducted.

## 13. Advisory Committee for NSS

One meeting of the Advisory Committee for National Service Scheme was held during the year. It approved the reports of (i) NSS Activities, and (ii) Special Camping Programme. The Committee recommended (i) to award



certificates only to the participants of Special Camping Programme, (ii) to move the State Government to deduct Rs. 3/- per student from Rs. 40/- per student available for Programme Development instead of from Rs. 20/- per student paid to the University for Organisation and Establishment to facilitate the maintenance of office staff, (iii) to increase the honorarium to the office staff of NSS from 1-10-1976, and (iv) to take up the issue of reduction of 120 hours of work in NSS through the State advisory Committee of N.S.S.

#### 14. Advisory Committee for NCC

One meeting of the Advisory Committee for NCC was held during the year 1976-77. The Committee recommended that the Deans of Faculties and Heads of Institutions concerned be requested to make efforts for enrolment of more students in NCC. The Committee also discussed several points concerned with NCC activities in general.

#### 15. Selection Committees

During the period from 1-4-1976 to 31-3-1977, there were 33 meetings of the Selection Committees appointed under Section 48 (2) of the Act and they recommended 38 candidates for appointment to the posts of Professors and Readers in various Faculties and Institutions in the University. There were 34 meetings of the Standing Selection Committee for Junior posts and 27 meetings of the Standing Selection Committee for Class III posts and 40 and 34 candidates were recommended by these Committees respectively for appointment to the different posts in the University.

#### 16. M. S. University Students' Aid Fund Committee

The Committee met on 22nd November, 1976. The total amount of help given to students by way of tuition fees, examination fees, educational materials etc. during the year 1976-77 was Rs. 41,165/-.

#### 17. Board of Extra Mural Studies

The Board met on 22nd September, 1976 and recommended a programme of extension lectures by the University teachers and outside experts. An amount of Rs. 8,500/- was sanctioned for the purpose.

#### 18. Advisory Committee for the University Health Centre

The Committee met on 2nd February, 1977 and conducted its routine business.

#### 19. Committee to Select Wardens

The Committee met on 9th March, 1977 and recommended a panel of three teachers for appointment as Wardens of Halls of Residence for men students.

## CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

During the year under report 112 new students (20 in Faculty of Arts, 34 in Faculty of Science, 1 in Faculty of Commerce, 32 in Faculty of Education and Psychology, 5 in Faculty of Home Science, 13 in Faculty of Technology and Engineering, 1 in Faculty of Law, 4 in Faculty of Fine Arts—including College of Indian Music, Dance and Dramatics and 2 in Faculty of Social Work) were registered for the Ph.D. Degree.

During the year 1976-77 the number of old students actively pursuing the Ph.D. Research Work in various Faculties was as under :

Sr. No.	Faculty	Number
1.	Faculty of Arts	74
2.	Faculty of Science	79
3.	Faculty of Commerce	8
4.	Faculty of Education and Psychology	103
5.	Faculty of Home Science	5
6.	Faculty of Medicine	17
7.	Faculty of Technology and Engineering	16
8.	Faculty of Law	2
9.	Faculty of Fine Arts (including Music College)	6
10.	Faculty of Social Work	2
		Total : 312

#### 2. Research Schemes Financed by the University

Sr. No.	Name of the Teacher	Research Scheme
Faculty of Arts		
(1)	Prof. J. D. Birje Patil	A Project for the Improvement of the Standard of English in the Faculty of Arts.
Faculty of Science		
(2)	Dr. S. D. Sabnis	Chemotaxonomic Studies on some important Angiosperm Texa.
(3)	Dr. C. H. Pathak	Investigations on the effects of Magnetic Fields on Life Processes.
(4)	Dr. A. G. Phatak	Simulation Models for Different Methods of Estimation.
(5)	Shri S. D. Desai	Field and Laboratory Investigations of Bauxite, Bentonire and Fireclay Deposits of Gujarat.
(6)	Prof. S. S. Merh and Shri D. T. Brahmabhatt	Geomorphic and Tectonic Studies in Precambrian rocks of N. Gujarat and S. Rajasthan using remote Sensing Techniques.



Sr. No.	Name of the Teacher	Research Scheme
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#### Faculty of Medicine

- (7) Dr. D. S. Shah Studies on the Mechanism of Anti Inflammatory Activity of Tinespora Cordifolia.
- (8) Dr. O. D. Gulati, Dr. B. S. Verma and Dr. P. T. Acharya Relationship of Iron to Pruritus.

#### Faculty of Technology and Engineering

- (9) Dr. V. S. Thattey Behaviour of Reinforced Cement Concrete Beam Columns under Biaxial Bending and Application of Finite Element Method.
- (10) Dr. N. H. Shah Studies in Reactive Dyes.
- (11) Dr. J. M. Lohar Study of Mesomorphism with respect to certain Physico-Chemical Properties.
- (12) Sarvashri N. B. Parmar and R. D. Bhatt Study of Pavement Distresses at Intersections.
- (13) Shri P. J. Roychowdhary Dissolution Studies in Liquid Metals.
- (14) Dr. K. K. Rao Regulatory Mechanisms involved in the Ergot Alkaloid Synthesis by a spargillus Fumigatus.
- (15) Shri N. S. Sunder Murti Preferential Reduction of Iron in Chromite by Solid 'C' Subsequent leaching to Improve Cr/Fe Ratio.
- (16) Prof. H. V. Bhavnani and Shri N. M. Bhatt Studies on the Performance of Waste Stabilisation Pond—Using Laboratory Scale Model.
- (17) Smt. Ranjit Kaur Changes in Enzyme Activities in wound healing.
- (18) Prof. S. K. Banerjee Phytochemical and Pharmacological Investigations of Tecomella Undulata (Bignoniaceae).

#### Faculty of Social Work

- (19) Prof. (Kum.) Indira Patel Library Research Compilation of Case Records in Social Work Practice.

#### College of Indian Music, Dance and Dramatics

- (20) Prof. C. C. Mehta Bibliography of Drama.
- M. K. Amin Arts and Science College and College of Commerce, Padra
- (21) Dr. R. D. Pathak Gujaratika Hindi Bhakti Kavya

### 3. Research Schemes Sponsored by 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 :

Sr. No.	Name of the Teacher	Title	Name of the Financing Agencies
(1)	Prof. M. B. Desai	(i) An evaluation of Dairying Assistance Programme M.F.A.L. Project (ii) Research Project on Bonded Labour	MFAL DA-Baroda Government of India Labour, Social Welfare and Tribal Development Department, Government Guja at.
(2)	Dr. S. G. Kantwala and Prof. R. N. Mehta	Puranas and Archaeology : Prabhasakhanda : A Study	U.G.C.
(3)	Prof. K. C. Panchandikar	The Level of Development of Social Welfare Services in the State of Gujarat	Department of Social Welfare. Ministry of Education and Social Welfare, Government of India
(4)	Prof. C. V. Ramakrishnan	Physical status clinical biochemical and radiological status in relation, in rural and urban areas.	U.G.C.
(5)	Prof. C. V. Ramakrishnan	Research Project No. UR-A7-(240)-248 Grant No. FG-In-491 "Study of Indian Fermented foods from legumes and the production of similar fermented foods from U.S. Soybeans	Am PL 480 USDA
(6)	Prof. C. V. Ramakrishnan	Research Project No. UR-A7-(40)-261 Grant No. FG-In-529 "Nutritional and Physiological studies on haemagglutinins, to provide information basic to	Am PL 480 USDA



Sr. No.	Name of the Teacher	Title	Name of the Financing Agency
		increasing the utilisation of soybeans in food and feed products	
(7)	Dr. S. K. Srivastava	Regulatory relationship between arginine and nucleic acid metabolism in plant tumour tissues	U.G.C.
(8)	Prof. C. V. Ramakrishnan	Studies on kwashiorkor and marasmus children in Madurai and Trivandrum	U.G.C.
(9)	Dr. A. R. Mehta	Physiological and Biochemical Investigations of differentiation in higher plants	U.G.C.
(10)	Dr. J. S. Dave	Studies in Liquid Crystalline State	C.S.I.R.
(11)	Prof. S. S. Merh	(i) Geomorphic study of the coast line between Jamnagar, Okha Mandal in Saurashtra (ii) Quaternary geology and geomorphology of Gujarat with special reference to coastal area	Government of India, Ministry of Defence U.G.C.
(12)	Prof. V. V. Modi	Studies on Riboflavin formation in <i>E. ashbyii</i>	C.S.I.R.
(13)	Dr. K. K. Rao and Dr. A. R. Mattoo	Fermentative production of cellulases from Fungi and their characterization	C.S.I.R.
(14)	Prof. V. V. Modi	(i) Post harvest physiology of mango (ii) Studies on carotene biosynthesis by <i>B. lipofera</i> (iii) Genetic transfer in <i>Rhizobium</i>	Am PL 480 USDA Am PL 480 USDA I.C.A.R.
(15)	Prof. P. V. Parikh	(i) Filter requirements of Cohesive soils (ii) Consolidation characteristics of fissured clay	C.B.I.P. and G.E.R.I. C.B.I.P. and G.E.R.I.

Sr. No.	Name of Teacher	Title	Name of the Financing Agency
		(iii) Effect of high Ambient pressure on triaxial shear strength of soil	C.B.I.P. and G.E.R.I.
		(iv) Strength deformation characteristics of granular material under very high pressure	C.B.I.P. and G.E.R.I.
(16)	Dr. K. K. Rao	Physiology of Ergot alkaloid formation in <i>A. fumigatus</i>	C.S.I.R.
(17)	Prof. A. M. Talati	Pyrolysed Polychelate	C.S.I.R.
(18)	Dr. (Miss) T. S. Saraswathy	(i) Development of moral judgement in children : ages 10-15 years (ii) Children's perception of maternal disciplinary practices and its relation to level of moral judgement in 10-15 year old children	Indian Council for Social Science Research Indian Council for Social Science Research
(17)	Dr. (Miss) S. Gujral and Mrs. M. Paur	Effectiveness of hypocholesteremic compounds in normo and hypercholesteremic rats	Sarabhai Research Centre (SRC)

The University Grants Commission has sanctioned a grant of Rs. 1,00,000/- for support of research in various fields. The University allocated Rs. 30,000/- for Humanities and Social Sciences, Rs. 50,000/- for Science and Home Science and Rs. 20,000/- for Technology and Engineering. Three Committees were appointed to scrutinize applications of University teachers and research scholars and recommend grants for their research topics. On the recommendations of these Committees, grants were sanctioned to the following teachers for the research schemes shown against them:

#### Humanities and Social Sciences

Sr.No.	Name of the Teacher	Scheme
1.	Kum. M. S. Padma	Effect of feedback on pupils' achievement.
2.	Smt. P. M. Buch	Perception of high schools' students and their attitudes towards vocational courses.
3.	Shri S. D. Joshi	Graduates—Social expectations and University Education.



Sr.No.	Name of the Teacher	Scheme
4.	Dr. M. Mukhopadhyay	Predictors of success in the first degree examination of the M. S. University of Baroda.
5.	Dr. D. C. Joshi	A survey of University Teaching Method.
6.	Dr. (Kum.) M. M. Shah	A comparative study in scholastic achievement of the students who have taken their primary education in Corporation Schools or in privately managed Primary Schools.
7.	Shri P. K. Desai	Hindi novels written after 1960—plot and formation.
8.	Dr. K. M. Shah	Premchand's influence on Hindi Novels—writing and criticism.
9.	Shri I. P. Vyas	An analytical study of executive organisation relationship in some Industrial Units in Baroda District.
10.	Shri N. K. Sant	Survey of 28th Century Graphic Design trends, their success of Influence and comprehensive study of the outstanding contributors' works.
11.	Shri Gulam Mohammad Shaikh	Analytical and stylistic study of cave painting of Ajanta from Aesthetic and Social points of views.
12.	Dr. Ratan Parimoo	Comprehensive study of Shiv Sculpture in Western Indian Caves.
13.	Dr. Anil Bhatt	An administrative study of Baroda's Experiment in Urban Decentralisation.
14.	Dr. Thomas Pantham	The Vocation of the Political Theorist.
15.	Shri O. P. Joneja	Colonial Consciousness in recent Black American, African and Indian Fiction.

#### Sciences and Home Science

1.	Dr. (Miss) M. K. Kshirsagar	Trees ferns in test tubes.
2.	Shri Kamleshjee Lulla	Salt Tolerance of some Crop Plants in natural habitat (habitat ecology).
3.	Dr. V. P. Fadia	Screening of local imomoea species for their alcholaid contains.
4.	Dr. R. H. Mehta	Mannich reaction on some hydroxyeoumarins.
5.	Dr. N. V. Mani	Chemical studies on medicinal plants of Gujarat.
6.	Dr. R. N. Kapadia	Pyrolysis of Co-ordination Polymers.
7.	Dr. (Smt.) K. D. Kanitkar	Innovations and changes in Under-graduate Chemistry curricula.

Sr No.	Name of the Teacher	Scheme
8.	Shri S. G. Patel	Geological studies of the Granite rocks—Central South Gujarat.
9.	Dr. N. M. Vashi and Dr. A. N. Shah	Geological studies in the Crystalline rocks of Western Kumaon with special reference to their structure, metamorphism and granitisation.
10.	Dr. S. S. Sail	Studies on Kwashiorkar and marasmus Children.
11.	Dr. (Kum.) S. D. Talang	Effects of nutritional deficiencies on glutamate metabolism in rat brain.
12.	Shri Hiralal Nakhasi	Effects of nutritional deficiencies on the lipid composition of different regions of the brain.
13.	Shri S. R. Agrawal	Conversion of Fourier Bessel Series.
14.	Shri V. R. Fadnis	Study of electrical conductivity of pure and doped alkali halide crystals.
15.	Dr. N. L. Kekan	Luminescent Properties of pure and doped materials.
16.	Dr. (Miss) R. V. Nene	Histochemical studies on certain vertebrate and invertebrate muscles.
17.	Dr. A. K. Desai	Studies on the generation insects.
18.	Dr. G. K. Memon	Histoenzymological studies on Endocrine Control of Avian Integumentary Derivatives.
19.	Dr. A. V. Ramchandran	Certain experimental aspect of regeneration.
20.	Dr. P. K. Hiradhar	Endocrine involvement in the regeneration of vertebrate appendages.
21.	Smt. Mrunalini A. Paur and Dr. Sundar Gujaral	The effect of liver amoebiasis on the nutritional status of hamsters.
22.	Smt. Ninaz T. Ankleshvaria	Quantitative and Qualitative estimation of essential amino acids from the raw and processed foods by paper chromatography method.
23.	Mrs. Subhtra Seshadri	Role of iron in brain metabolism.
24.	Dr. Veena Mistry and Smt. P. Mohite	Development of diagnostic and prescriptive activities for children for specific learning disabilities.



Sr.No. Name of the Teacher

Scheme

## Technology and Engineering

1. Dr. A. V. Shroff Studies on Chemical Groups.
2. Shri G. B. Sompura and Shri R. D. Bhatt Study on behaviour of various base materials under fatigue loadings.
3. Shri M. T. Chhangawala Study of mix mesomorphic melts.
4. Dr. Y. K. Joshi Transition metal chelates.
5. Prof. C. C. Shah Study and comparison on modern methods in numerical Analysis.
6. Shri V. H. Shah Fumigation in the diesel engine by exhaust heating.
7. Shri A. A. Patel Effects of vibrations on convective heat transfer.
8. Shri Satish Mishra Resistometric Studies of solute vacancy interactions and clustering kinetics in Aluminium, Magnesium, Chromium, Alloys.
9. Prof. S. K. Banerjee Phytochemical investigations of medicinal plants having anticancer activity *Amberboa remosa-knntze*.
10. Dr. J. R. Pandya and Shri K. P. Dhake Fabrication of crystal growing units for growing different type of crystals by different techniques and study of micro structure on the grown crystal surfaces.
11. Shri A. J. Shah and Dr. P. Bhagat Electrical Conductivity of mineral crystals and Synthetic Ionic Crystals.
12. Shri V. S. Prammar System of proportion used in Ancient Architecture.

## CHAPTER VII—VISITING LECTURERS

## Lectures

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

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

Sr. No.	Name of Lecturer	Date	Subject
1.	Professor A. K. Dasgupta	9-12-1976 10-12-1976	Adam Smith as an Economic Theorist
2.	Professor G. S. Gupta	21-1-1977 22-1-1977	Techniques for Investment Decisions
3.	Professor I. S. Gulati	16-10-1976 17-10-1976 18-10-1976	1. International monetary Reform and the Developing world 2. Intra-Federal Fiscal Transfers—The Indian case

## Faculty of Science

1.	Dr. P. Dasgupta	8-3-1977 9-3-1977	1. Simulation as a technique 2. Some aspects of the study of Robustness
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## Faculty of Technology and Engineering

1.	Professor M. P. Singh	11-10-1976 12-10-1976	1. Transport of gases in lung in pathological conditions 2. Singular perturbation techniques
2.	Professor Dinesh Mohan	20-2-1977	1. Use of Research Techniques in the construction of low cost housing 2. Bearing capacity of Soils
3.	Shri R. Raghavachari	7-3-1977 8-3-1977 9-3-1977	Broadcasting Techniques and Radio Regulation, Frequency allocation, Propagation, Transmitters, Antennas and studio Avoustices and Equipment
4.	Shri A. I. Bhatt	30-2-1977	Problems of wastes water in small scale Industries
5.	Prof. Gajendragadkar	Dec. 1976	Solid Wastes disposal



## Lectures under Extra Mural Grant or other schemes :

Sr. No.	Name of Lecturer	Date	Subject
<b>Faculty of Arts</b>			
1.	Dr. (Smt.) J. H. Dave	10-1-1977	Bhasha : As a Dramatics
2.	Professor S. B. Deo	Sept. 1976	Art of Ter
3.	Dr. Vakankar	Oct. 1976	Pre-historic paintings of Bhimbetka
<b>Faculty of Science</b>			
1.	Dr. M. D. Karkhanawala	7-10-1976	Chemistry of High Pressures
2.	Professor M. P. Singh	12-10-1976	Singular Perturbation Technique and its application in Physical Engineering and Social Sciences
3.	Professor David Dickinson	13-1-1977	Orthogonal Polynomials
4.	Shri V. J. Amin	5-1-1977	Aeration and agitation
5.	Professor R. C. Misra	12-1-1977	Scale up of fermentations
6.	Professor Hanumanth Rao	22-1-1977	The Role of Micro-organisms in the formation and destruction of mineral deposits
7.	Mr. M. B. Mehta	25-2-1977	Some aspects of Helminth parasites
8.	Professor P. P. Oza	25-2-1977	Applications of Operations Research in Industry
9.	Shri P. P. Unni	5-3-1977	1. Pollution—General aspects
10.	Dr. G. P. Talwar	26-3-1977	2. Role of Biologists in pollution studies with particular references to stream surveillance
11.	Professor N. S. Patel	13-4-1976	Planning and Development of Mines
12.	Dr. Menon	16-8-1976	Hormones
13.	Dr. Mitra	17-8-1976	1. Lipid Oxidation
14.	Dr. Ananthakrishnan	14-11-1976	2. Regulation of lipid metabolism
			3. Utilization of Ketone bodies by brain
			Skin metabolism
			Regulation of Glycolysis
			Insect nutrition

Sr. No.	Name of Lecturer	Date	Subject
15.	Dr. C. V. Subramanian	14-11-1976	Role of fungi in pollution
16.	Dr. Nagarajan	12-1-1977	2 lectures on Po'yamine matabolism in tumours
17.	Dr. Kothari	13-1-1977	Immobilized enzymes
18.	Dr. S. Shivram	8-2-1977	Application of Molecular Orbital Theory to Organic Chemistry
19.	Shri B. K. Jhala	13-8-1976	Forest Conservation and Preservation of Wild Life
20.	Dr. B. K. Fellett	25-8-1976	1. Photoperiodic Control of Reproduction in Birds
		25-1-1977	2. Neuroendocrina Control of Reproduction in Birds
<b>Faculty of Technology and Engineering</b>			
1.	Dr. A. L. Lagvankar	27-12-1976	1. Chicago's Tunnel and Reservior Plan
2.	Dr. L. F. Bosewell	5-1-1977	2. World Largest Pollution Control
3.	Shri B. B. Nanavaty	14-2-1977	Finite element methods to predict foundation Settlement
		15-2-1977	Estimation and Evaluation
		28-2-1977	Public Health Engineering
		1-3-1977	
		11-3-1977	
		12-3-1977	
4.	Shri A. I. Bhatt	30-3-1977	Problems of waste water disposal in small scale industries
5.	Shri S. H. Antani	14-3-1977	Design of Sewage Scheme
		16-3-1977	Design of Primary treatment units for domestic waste
		18-3-1977	Design of conventional and high rate trickling filters
		21-3-1977	Design of Activated Plants and its modifications
		23-3-1977	Design of standard and high rate digesters
		25-3-1977	Chlorination of Sewage



Sr. No.	Name of Lecturer	Date	Subject
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### Faculty of Home Science

1.	Smt. Mahendrika C. Bhatt	19-12-1976	The Gujarati modification of WISC
2.	Shri A. D. Surti	28-2-1977	Men's Tailoring
		1-3-1977	
3.	Mr. P. K. Nag	11-3-1977	1. Ergonomics and its Implications in the Home 2. Scope for Research in Ergonomics as related to Home
4.	Smt. Tarabai	12-3-1977	Women's Education during the last two decades
5.	Kum. Rashmi	August '76	Importance of Designing

### College of Indian Music, Dance and Dramatics

1.	Group of four Rajasthani Artists	27-7-1976	Folk Music of Rajasthan
2.	Shri Madhubhai Patel	7-10-1976	Lecture—Demonstration on Vocal Music
3.	Shri Raojibhai Patel	7-1-1977	Vocal Classical Music
4.	Shri Pransukh Naik	10/11-1-1977	Lecture Demonstration on Drama
5.	Smt. Anima Roy	28-1-1977	Lecture Demonstration and Vocal Recital
		29-1-1977	
6.	Shri Govind Prasad	7-2-1977	Vocal Music Programme
7.	Shri Jayanti Patel	9/10-3-1977	Comedy—An Art of Craft
8.	Shri Nikhil Ghosh	15-3-1977	Tabla Traditions and Bajj.

## CHAPTER VIII—FACULTY OF ARTS

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

( i ) An experiment in the introduction of Archaeology to the undergraduate students of Sophia College, Bombay, was undertaken. Its success has led to further planning of similar and advanced experiments.

( ii ) The Department of English started teaching the two optional papers in European Classics to the M.A. Class from July, 1976.

( iii ) A new course entitled World Order in the Twentieth Century was introduced at the post-graduate level in place of the earlier course on International Relations in the Department of Political Science.

( iv ) Two separate papers for M.A. Sanskrit Subordinate were introduced.

### 2. Number of Students

The following number of students enrolled in various classes during the year 1976-77 was as under :

Class	Men	Women	Total
( 1 ) Certificate Course in German	131	22	153
( 2 ) Certificate Course in Russian	10	1	11
( 3 ) Certificate Course in French	41	20	61
Total :	182	43	225
( 4 ) Diploma in Russian	3	1	4
( 5 ) Advance Course in Russian	—	—	—
( 6 ) Diploma in German	26	10	36
( 7 ) Advance Course in German	7	2	9
Total :	36	13	49
( 8 ) F.Y.B.A.	434	293	727
( 9 ) S.Y.B.A.	344	212	556
( 10 ) T.Y.B.A.	425	312	737
( 11 ) Library Science	8	22	30
Total :	1,211	839	2,050



(12) M.A. Part I	114	117	231
(13) M.A. Part II	91	75	166
Total :	205	192	397
(14) Ph.D.	8	3	11
Grand Total :	1,642	1,090	2,732

### 3. Staff

(a) During the year, the staff consisted of 11 Professors (three of whom are in the senior scale), 17 readers, 61 Lecturers, 1 Part-time Teacher, 3 Honorary Lecturers, 20 Class III Staff including Technicians and 25 Class IV employees. The teachers of the Faculty carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in their courses.

#### (b) Teachers who left the University :

1. Shri M. M. Desai, Lecturer in Gujarati, retired.

### 4. Professional Growth of the Staff

#### (a) Published articles/papers in Indian and or Foreign Journals of merit:

Name	Title	Journal
(1) Prof. R. N. Mehta	(i) Surat	Journal of the M. S. U. Vol. XXII, No. 1 and Vol. XXIII No. 1, 1974 published in 1976.
	(ii) Champaner and Humayun	Journal of the Oriental Institute Vol. XXV No. 3 and 4, 1976.
	(iii) પ્રાગ-ઐતિહાસિક ચાંપાનેર	Gujarat Dipotsavi Anka, 1976.
	(iv) મ. સ. યુનિવર્સિટીના દ્વિ પ્રશાન્તરાગનાં તાબ્રપત્રો	Swadhyaya, Vol. 14, No. 2, 1977.
	(v) ચાંપાનેરના માર્ગો	Vahan Vyavahar journal of B.E.S.T. Corporation, 1976
(2) Dr. K. T. M. Hegde	Analytical Study of Pannar Coins	Journal of Numismatic Society of India, Vol. XXXVII, December, 1976
(3) Shri V. S. Parekh	(i) વડોદરાનાં કેટલાંક મહત્વનાં શિલ્પો	Swadhyaya Vol. 14, No. 1

Name	Title	Journals
	(ii) A rare Sculpture of the Consort of Vishnu	Journal of the Oriental Institute, Vol. XXV, Nos. 3-4
	(iii) Some interesting sculptures from Kavi area	Journal of the Oriental Institute, Vol. XXV, Nos. 3-4
(4) Shri V. H. Sonawane	Tarsang-an important archaeological site	Journal of the M.S.U. Vol. XXII-XXIII (1973-74) No. Combined issue
(5) Dr. K. N. Reddy	(i) Inter-State Differences in Social Consumption	Economic and Political Weekly, Vol. XI, No. 24, June 12, 1976
	(ii) Absorption of Manpower in Government	The Manpower Journal Vol. XII, No. 1 April-June, 1976
(6) Dr. M. M. Dadi & Dr. S. R. Hasim	Leontief Capital-Output Ratios for Large-Scale Manufacturing Industries 1963	Anvesak, June-December, 1975
(7) Shri N. M. Pandya	An Analysis of Non-Workes -A Possible Clue to Under estimation of Unemployment in 1961 Census	Artha-Vikas, January-June, 1976
(8) Mrs. M. N. Shah	(i) An Analysis of Stability and Variation in Labour Force Participation suggesting underenumeration of Unemployment	Artha-Vikas, January-June, 1976
	(ii) Economics of Control in the Automobile Industry	The Journal of the M. S. University of Baroda, March, 1977
(9) Prof J. Birje-Patil	(i) Shipwrecks and sandalwood-A Study of Raja Rao and Naipaul	Vagartha, Delhi, April 1976
	(ii) Interior cadeness: The Poetry of Nissim Ezekial	Literary Criterion, Mysore, January, 1977



Name	Title	Journals
	(iii) An Autobiography of a Fever: The Poetry of Sylvia Plath	Indian Journal of American Studies, Hyderabad, January, 1977
	(iv) Humboldt's gift: A Survey	Indian Book Chronicle, Anniversary No. January, 1977
(10) Dr. M. G. Gupta	तस्वीरें और साये	गंगाप्रसाद मिश्र अभिनन्दन ग्रंथ १९७७
(11) Dr. D. S. Shukla	आचार्य श्रीपति मिश्र और उनका अनुगास ग्रन्थ	हिन्दुस्तानी त्रैमासिक भाग-३६ अंक २
(12) Dr. M. G. Gupta	युग पुरुषों की भारतीय परम्परा का सांस्कृतिक उन्मेष	साहित्य विशेषांक १९७६
(13) Dr. B. D. Sharma	मरणोत्तर	Butala Prakashan, Baroda
(14) Prof. A. P. Rana	(i) Towards Transnationalisation : Some Notes on the future Orientations of Nonaligned Foreign Policies	Secular Democracy Vol. IX, Vol. XIV. and XV-July 31 and 15, 1976
	(ii) The Detente and Non-alignment : A Conceptual Study	Bharat Ki Videsh Niti, Macmillan Co., New Delhi, January, 1977
(15) Shri Anil Bhatt	(i) Dominant Caste and Political Process	'Dimensions of Social Change in India', Allied Publishers, New Delhi, February, 1977
	(ii) Social Mobility and Politics: A Stock taking	Journal of the M. S. U., Vol. XXIII and XXIV combined issue, March, 1977
(16) Dr. Thomas Pantham	The formation of the politically active stratum—Evidence from the Career Origins of party activity in an Indian City	'The Making of Politicians' W. H. Morris—Jones, London, November, 1976
(17) Shri H. C. Shukul	Functionalism and World Order—A preliminary enquiry	Journal of the M.S.U., Vol. XIII and XII (combined issue), March, 1977

Name	Title	Journal
(18) Prof. A. N. Jani	(i) भद्रं धि नारद	Navabharati Vol. 30, Nos. 1-2—Dipotsavi, 2032
	(ii) Bala-Tripurastavanam	Prof. K. A. S. Iyer Felicitation Volume 1976 Dipavali, 2032
	(iii) भाया	Article in the Book "Swami Shri Lokanatha Tirtha" by A. S. Potbhare, Pune, March, 1976
	(iv) Kundalini-Yoga (Marathi)	Jagriti (Sp. issues of Sudha Bindu) Vol. 16, Nos. 1-2
	(v) Sanskrit Sahitya and Rashtra Bhavana (Hindi)	
	(vi) Tribute to Shri Mota	} Svadhyaya XIV, November, 1976
	(vii) Tribute to M. M. Gopinatha Kaviraj	
	(viii) Exposition on Purusartha in the Dharma-sutra and Smritis	Journal of the Oriental Institute, Vol. 25 Nos. 3-4 (March-June), 1976 issue
(19) Dr. S. G. Kantawala	(i) A Note on Narada in the Vikramorvasyam	Bulletin of the Chunilal Gandhi Vidyabhavan, Surat, Vol. 19, August, 1975
	(ii) Patala-vivara Myth in the Prabhasa-Khanda—A Study (jointly with Prof. (Dr.) R. N. Mehta)	Journal of the Oriental Institute, Vol. XXV, No. 2, December, 1975
	(iii) Aurobindo's Vedic Interpretation	Journal of the M.S. University, Vol. XXII, No. 1 and Vol. XXIII, No. 1.
	(iv) Sambuka Episode in the Uttararama-caritam	Prof. K. A. S. Iyer Felicitation Volume
	(v) Pururavas — Urvasi Episode: A Study in Vedico — Puranic Correlates	Annals of the Bhandarkar Oriental Research Institute, 1976
	(vi) प्रतीहारेन्दुराज	भारतीय साहित्य मंजूषा, भाग-२.
	(vii) ऋग्वेदो अने तेमना अजायब पराक्रमो	श्री नवभारती, वर्ष २९, अंक ९ जुलाई १९७६.
	(viii) मरुत पुराण-एक झूठक	वीगेली मोती दीपावली अंक. ओक्टो. ७६.



Name	Title	Journal
(20) Dr. K. C. Panchanadikar and Dr. (Mrs.) J. Panchanadikar	(i) Necessidades Civicas Gasto Public en el Panchayat de Mindhola (in Spanish)	Estudios de Asia and Africa, Vol. 30, No. 1, June, 1976, pp. 91-120
	(ii) Political Inputs for Development: Elective and Bureaucratic	Proceedings of the 30th International Congress of Human Sciences in Asia. & Africa, Mexico, August, 1976
	(iii) Social Stratification & Mobility in Rural Community (Mahi) in Gujarat—India	Proceedings of the 4th World Congress of Rural Sociology at Torun, Poland, August, 1976
(21) Dr. (Mrs.) J. Panchanadikar	Untouchability in India : Analysis of Stratification & Stigmat	Journal of M.S U., Baroda, Vol 23-2, Vol. 24.2—Combined Issue, pp. 47-69—February-March, 1977
(22) Shri D. D. Mahulkar & Smt. B. V. Modi	Review of Malavi Dialut	M.S. University Journal
(b) Publication of Books :		
(1) Prof. R. N. Mehta	સુતકાળની સીતરમી	University Book Trust, Ahmedabad, 1977
(2) Dr. V. N. Kothari	(i) A Study of Economic profiles of the Scheduled Castes in Gujarat	M. S. University, 1976
	(ii) Movement of wage rates in India	Bombay University, 1976
(3) Prof. V. N. Kothari and Dr. M. M. Dadi	Economic benefits of rural electrification in Gujarat	M. S. University, 1977
(4) Dr. K. N. Reddy	The Trend of Government activities in India since Independence	M. S. University, 1976

Name	Title	Publisher
(5) Prof. J. Birje-Patil	<i>Beneath The Axle-Tree : A Study of T.S. Eliot</i>	The Macmillan Co. of India, March, 1977
(6) Prof. (Mrs.) V. A. Janaki	Some Aspects of Political Geog. of India ( Geography series )	M. S. University, March, 1977
(7) Dr. K. C. Panchanadikar and Dr. (Mrs.) J. Panchanadikar	Rural Modernization in India	Popular Prakashan, Bombay, 1977
(c) Papers presented at All India level Seminars, Conferences, etc. :		
Name of the Teacher	Name of Conference/ Place/Date	Title of the Paper presented
(1) Prof. R. N. Mehta	(i) All India History Conference, Cambay, December, 1976	Cambay—An Archaeological, Toponomical and Topographical perspective
	(ii) Gujarati Itihas Parishad, Bardoli, October, 1976	Teaching of History at undergraduate and post-graduate level
(2) Dr. K.T.M. Hegde	(i) South and South East Asia Regional Conference on Conservation of Cultural Property, New Delhi, 3-11 January, 1977	Technical heritage of India — How to understand and preserve it
	(ii) The search for Ancient Sources of Tin, Smithsonian Institution, Washington, D.C. 14-15, March, 1977	Ancient sources of Tin in India
	(iii) An international Symposium on Archaeometry and Archaeological prospection, University of Pennsylvania, Philadelphia, 16-19 March, 1977	Studies in Ancient Indian Copper and Iron Metallurgy



Name of the Teacher	Name of Conference/ Place/Date	Title of the Paper presented
(3) Prof. V. N. Kothari	Seminar at the Centre for Development Studies, Trivandrum, 5-8 July, 1976	Concepts and measurements of Rural Unemployment
(4) Dr. K. N. Reddy	Seminar on Gujarat Economy in 2001 A.D. Sardar Patel Institute of Economic and Social Economic Research, Ahmedabad, 12-14 August, 1976	Comments on Project in Government Sector in 2001 A.D.
(5) Prof. M. B. Desai	Gujarat Economic Conference, Nadiad, October, 1976	Fixation of Minimum Wages in Unorganised Occupations in Gujarat: An Empirical Analysis Key Paper
(6) Prof. J. Birje-Patil	(i) U.S.I.S., Bombay, September, 1976	Trends in Modern American Fiction
	(ii) Conference of Common Wealth-Writers, New Delhi, January, 1977	The Poetry of Nissim Ezekiel
(7) Prof. R. N. Mehta	U.S.I.A., Bombay, September, 1976	Howthorne's Tales and Sketches
(8) Prof. V. Y. Kantak	USIS, Bombay, September, 1976	Whitman's Poetry
(9) Shri B. S. Kamble	University of Rajasthan, Jaipur, November, 1976	Communicative Grammar
(10) Prof. A. P. Rana	(i) South Asia Studies Institute, University of Rajasthan, Jaipur, 27th November, 1976	India, Nonalignment and the International System
	(ii) 26th All India Political Science Association's Conference, University of Jodhpur, 29th to 31st December, 1976	United Nations, the Third World and Developing Political Economy
	(iii) Centre for Study of Peace and Non-violence	Nonalignment and World Peace

Name of the Teacher	Name of Conference Place Date	Title of the paper presented
	ce. Sri Venkateshwar University, Tirupati, 24th to 26th February, 1977	
(iv) U.G.C. Panel on Revision of Political Science Syllabus, University of Rajasthan, Jaipur, 26th to 28th November, 1976		The Revision of International Relations Syllabi
(11) Dr. Thomas Pantham	Symposium on 'Democracy and India', Vallabh Vidyanagar, 29th September, 1976	Indian Democracy: The search for new orientations
(12) Prof. A. N. Jani	(i) All India Oriental Conference, Dharwar, 10th to 12th November, 1976	Interpolations in the Hatha-Yoga Pradipika
	(ii) All India Seminar on the "Relevance of Sanskrit" held at Jabalpur, 12th to 14th February, 1977	Sanskrit and common man: Past, Present and Future
(13) Dr. S. G. Kantawala	All India Oriental Conference, Dharwar, 10th to 12th November, 1976	Some remarks on the Bhagavata Purana: A Study in Vedico-Puranic correlates
(14) Dr. (Miss) S. A. Nachane	All India Oriental Conference, Dharwar, 10th-12th November, 1976	An Interpretation of Katha Upanishad-II
(15) Dr. K. C. Panchanadikar	13th All India Sociological Conference, Chandigarh, 26-28 December, 1976	Some Problematics in Social Research in India—Suggestions for Re-orientation (Working Paper)
(16) Miss B. S. Desai	13th All India Sociological Conference, Chandigarh, 26-28 December, 1976	Migration and Mobility amongst Anavils of Vesma Village, South Gujarat



## (d) Talks given at different Institutions :

Name of the Teacher	Institution	Subject
(1) Prof. R. N. Mehta	(i) M.T.B. College, Surat, South Gujarat University	History and Archaeology of Surat
	(ii) Devagadh Baria College, Gujarat University	Champaner
	(iii) Banaras Hindu University	(i) Mediaeval Archaeology (ii) Champaner
(2) Dr. K. T. M. Hegde	University of Pennsylvania, 21, 22 and 23 March, 1977	(i) Technical Studies in Ancient Indian Ceramics
		(ii) Evidence of Climatic change during the late Quaternary in Gujarat and Rajasthan
		(iii) High lights of Recent Archaeological Research in India
(3) Prof. V. N. Kothari	(i) Navjivan Arts and Commerce College, Dohad, 9th September, 1976	Poverty in India
	(ii) Sardar Patel Institute of Economics and Social Research, Ahmedabad, 7th January, 1977	Manpower Planning : Approaches to Educational Planning
	(iii) Saurashtra University, Bhavnagar, 16th January, 1977	Sources of Economic Growth and Real and Institutional Factors in Agriculture
(4) Dr. K. N. Reddy	Sardar Patel Institute of Economics and Social Research, Ahmedabad, 22nd to 24th December, 1976	(i) Relevance of Resource Planning and Resource Pattern of States

Name of the Teacher	Institution	Subject
		( ii ) Tax Analysis
		( iii ) Revenue Potential of Major Tax and Non-Tax Sources
		( iv ) Capital Receipts
( 5 ) Dr. M. M. Dadi	Sardar Patel Institute of Economic and Social Research, Ahmedabad, 7th January, 1977	Cost Benefit Analysis of Rural Electrification
( 6 ) Dr. S. R. Hashim	Sardar Patel Institute of Economics and Social Research, Ahmedabad 19th and 20th January, 1977	Transport Planning
( 7 ) Prof. J. D. Birje-Patil	( i ) Central Institute of English and Foreign Languages, Hyderabad	Time in Shakespeare and Marlowe
	( ii ) University of Hyderabad	From Ritual to Gesture in Drama
	( iii ) University of Bombay	Modern Fiction
	( iv ) University of Kerala, Trivandrum	Modern Poetry
	( v ) University of Calicut, Calicut	
	( vi ) P.G. Centre, University of Calicut, Tellicherry	
	( vii ) University of Mysore	
		( i ) Society & Drama
		( ii ) Fiction & Social Order
		( iii ) Poetry & Society
	( viii ) Department of English, University of Mysore	The Fool in Lear
( 8 ) Prof. V. Y. Kantak	( i ) Madras University	( i ) V. S. Naipaul
	British Council Seminar	( ii ) Animal-Imagery in Modern Poetry



Name of the Teacher	Institution	Subject
(ii) Punjab University, Chandigarh	(i) V. S. Naipaul (ii) Animal-Imagery in Modern Poetry	
(9) Dr. M. G. Gupta	(i) S. P. University 12-3-1977 (ii) Seminar organised by Bharatiya Hindi Parishad, Delhi on 1-2-1977	कवितावली का युगीन सन्दर्भ हिन्दी साहित्यकी राष्ट्रीय सांस्कृतिक चेतना
(10) Dr. D. S. Shukla	(i) Rajendra Singh Commerce College, Rajpipla, 27-9-1977 (ii) Dharma Samaj College, Aligarh, 27-11-1977	समाज के पुनर्निर्माण में युवकों का योगदान गुजरात में हिन्दी और उसका साहित्य
(11) Prof. A. P. Rana	(i) Harold Laski Institute of Political Science, Ahmedabad, 14th November, 1976 (ii) Punjab University, Chandigarh, 10th December, 1976	Nehru and International Political Modernization: A view from the Seventies (i) The Capability Base of Contemporary Non-alignment (ii) The Universal Declaration of Human Rights: Some Problems of Implementation
(12) Dr. A. N. Jani	(i) Sikkim Research Institute of Tibetology, Gangtok, Sikkim, 18-9-1976 (ii) Department of Sanskrit, S.N.D.T. Women's University, Bombay, 14-10-1976 (iii) Kamani Arts College, Amreli, 15-1-1977	Concept of Divinity in the Hindu and Buddhist Tantras Naisadhiyacaritam : The Epic for the Learned (i) Principles of Etymology in the Nirukta of Yaska

Name of the Teacher	Institution	Subject
		(ii) Origin and Development of Sanskrit Poetry Vishnudharmottara Purana
	(iv) Kalidasa Samaroha, Department of Sanskrit, University of Indore, 28-3-1977	Kalidasa, the Advocate of Indian Culture
	(v) M. P. Shah Arts College, Surendranagar	Principles of Etymology in the Nirukta of Yoga and Dasarajnya War
(13) Dr. S. G. Kantawala	Sanskrit Department, Sardar Patel University	Vedic Metres
(14) Dr. (Miss) S. A. Nachane	Gurudeva Ranade Institute, Belgam	Vedanta and Bhakti
(c) Participation in Inservice Programme :		
Name	Programme	Capacity
(1) Prof. R. N. Mehta	(i) Higher Secondary Education, Baroda, May and October, 1976 (ii) Workshop on Teaching of History, M. S. University of Baroda, May, 1976 (iii) Refresher Course for Museum Curators, M. S. University of Baroda, October, 1976 (iv) Short Term Intensive Course in Mediaeval Archaeology, M. S. University of Baroda, February-March, 1977	Faculty member Faculty member Faculty member Director



Name	Programme	Capacity
	(v) Antiquity Registration Officers' Training Programme, Archaeological Survey of India, March-April, 1977	Faculty member
(2) Dr. K. T. M. Hegde	(i) Workshop on Teaching of History, M. S. University of Baroda, May, 1976	Faculty member
	(ii) Rresher Course for Museum Curators, M. S. University of Baroda, October, 1976	Faculty member
	(iii) Short Term Intensive Course in Mediaeval Archaeology, M. S. University of Baroda, February-March, 1977	Faculty member
	(iv) Antiquity Registration Officers' Training Programme, Archaeological Survey of India, March-April, 1977	Faculty member
(3) Prof. V. N. Kothari	Seminar on Kadana Project Agro-Economic Research Centre, Sardar Patel University, Vallabh Vidyanagar, 13th November, 1976	Participant
(4) Dr. K. N. Reddy	(i) Octroi Study Committee, Sponsored by the Baroda Municipal Corporation and Federation of Gujarat Mills and Industries, Baroda, August, 1976	Chairman of the Committee

Name	Programme	Capacity
	(ii) Indirect Taxation Enquiry Committee, 7th December, 1976	Submitted a Note on Value Added Tax
	(iii) Advisory Committee of the Gujarat for preparing the case of Gujarat Government to Seventh Finance Commission (Government Resolution 1st December, 1976)	Member of the Committee
	(iv) Seminar on Gujarat Economy in 2001 A.D., Sardar Patel Institute of Economics and Social Research, Ahmedabad, 12-14 August, 1976	Participant
(5) Dr. S. R. Hashim	(i) Seminar on Gujarat Economy in 2001 A.D., Sardar Patel Institute of Economics and Social Research, Ahmedabad, 12-14 August, 1976	Participant
	(ii) Gujarat Economic Conference, Nadiad, 2-3 October, 1976	Session Chairman on "Techniques of Planning"

## 6. Museum

The museum of the Department of Archology and Ancient Histy has been renovated. Matrials recovered from Champaner are now exhibited in a chronological and technological sequence showing the development of cultures in Champaner.

## 7. Faculty Publication—Department of Economics

Name of the Journal	Editor	Month of Publication
Amateur 1976-77 Economist	Dr. S. R. Hashim	March, 1977



## 8. Visitors

Name	
(1) Shri M. N. Deshpande, Director General, Archaeological Survey of India, New Delhi	May, 1976
(2) B. K. Thapar, Additional Director General Archaeological Survey of India, New Delhi	October, 1976
(3) Dr. Shivram Murti, Director of National Museum, (Retired), New Delhi	November, 1976
(4) Smt. Rukmanidevi Arundale, Madras	March, 1977

## CHAPTER IX—FACULTY OF SCIENCE

## 1. Courses of Studies

- (a) The courses of studies remained the same as in the previous year.
- (b) Courses modified during the year:
- (i) Syllabus for M.Sc. (Final) in Chemistry was revised and introduced from June, 1976.
- (ii) Papers I and II at T.Y.B.Sc. and at S.Y.B.A. (Major) are modified to suit new pattern of eight papers for the B.Sc./B.A. (Major) in Mathematics.

## 2. Some New Experiments

The System of preparing assignments in Mathematics for the F.Y.B.Sc. students in Geometry is started to facilitate the day to day home work for the students.

## 3. Number of Students

Class	Men	Women	Total
(1) Diploma in Laboratory Techniques			
1st Year	10	—	10
2nd Year	10	—	10
Total	20	—	20
(2) Pre-Medical	120	24	144
(3) F.Y.B.Sc.	317	128	445
(4) S.Y.B.Sc.	187	96	283
(5) T.Y.B.Sc.	227	146	373
Total	851	394	1245
(6) M.Sc. (Previous)	102	55	157
(7) M.Sc. (Final)	121	54	175
(8) M.Sc. (Applied Geology)	7	—	7
Total	230	109	339
(9) Ph.D.	38	15	53
Grand Total	1139	518	1657



## 4. Staff

## (a) Present Position:

The teaching staff of the Faculty was as under:

Department	P	R	L	Total
Bio-chemistry	2	4	7	13
Botany	1	3	14	18
Chemistry	2	4	31	37
Geography	1	1	10	12
Geology	2	2	10	14
Mathematics	1	3	12	16
Microbiology	1	2	5	8
Physics	1	4	25	30
Statistics	2	2	10	14
Zoology	1	2	17	20
Total	14	27	141	182

Besides the teaching staff mentioned above there were 120 Class III and 82 Class IV staff.

The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions of the University, where Science subjects are included in their courses viz. Preparatory Science Unit, Preparatory Arts and Commerce Unit, Faculty of Arts and Faculty of Commerce.

## (b) New appointments:

Sr.No.	Name	Designation	Date of joining
(1)	Dr. (Kum.) N. Vaishampayan	Lecturer in Physics	1-7-1976
(2)	Shri J. R. Otia	Lecturer in Physics	1-7-1976
(3)	Kum. S. N. Vahia	Lecturer in Statistics	1-7-1976
(4)	Shri M. B. Sharma	Research Associate in Bio-chemistry	1-7-1976

## (c) Teachers upgraded to higher posts:

Sr. No.	Name	Post held on 1-4-1976	Post held now	Date from which upgraded
(1)	Dr. (Smt.) R. Rajalakshmi	Reader in Bio-chemistry	Professor of Nutrition	18-10-1976
(2)	Dr. (Kum.) M. S. Shah	Lecturer in Physics	Reader in Physics	26-4-1976

## (d) Teachers who left:

Sr.No.	Name	Designation	Reason
(1)	Dr. S. K. Munshi	Lecturer in Geology	To go abroad.
(2)	Dr. (Smt.) K. D. Kanitkar	Lecturer in Chemistry	To go elsewhere.
(3)	Shri S. P. Prajapati	Lecturer in Chemistry	To go elsewhere.
(4)	Shri H. L. Nakhasi	Lecturer in Bio-chemistry	To go abroad.

## 5. Professional Growth of the Staff

## (a) Published articles/papers in Indian and/or Foreign journals of merit

## (i) Articles/Papers:

Name	Title	Name of the journal, wherein published with month of publication
<b>Bio-Chemistry Department</b>		
(1) Rajalakshmi R. and Nakhasi, H. L.	Effects of neonatal undernutrition on the lipid composition of the spinal cord.	Expt. Neural. (1976), 51, pp. 330.
(2) Ramakrishnan, C. V., Parekh, L. J., Akolkar, P. N., Rao, G. S. and Bhandari, S. D.	Studies on soyidli fermentation	Plant Foods for Man. 2, No. 1/2, 1976
(3) Naik, B. I., Mehta, K. K. and Srivastava, S. K.	Changes in Polyamine levels on infection of plants by <i>Casputa reflexa</i>	Ind. J. Biochem. Biophys., 1976, 12, pp. 306
(4) Srivastava, S. K., V. Prakash and B. I. Naik	Regulation of diamine oxidase activity in germination pea seeds	Phytochemistry, Vol. 16, pp. 185-187, 1977
(5) Srivastava, S. K.	Purification and Properties of pea cotyledon and embryo diamine oxidase.	Phytochemistry, Vol. 16, pp. 189-190, 1977



Name	Title	Name of the journal wherein published with month of publication
<b>Botany Department</b>		
(6) R. R. Shah, Shylaja Rao & Mehta A. R.	Distribution of Polyphenols and Development of Peroxidase activity during germination in <i>Crotalaria</i>	Ind. J. Expt. Biol. 14(3): 299, 1976
(7) Fadia, V. P. & A. R. Mehta	Tissue Culture Studies on Cucurbits: 7, Chlorophyll development in <i>Cucumis</i> callus cultures	Phytomorpho. 26 (2): 170, 1976
(8) R. R. Shah, K. V. Subbaiah & A. R. Mehta	Hormonal effect on Polyphenol accumulation in Cassia cultured <i>in vitro</i>	Canadian J. Bot. 54(11): 1240, 1976
<b>Chemistry Department</b>		
(9) P. C. Parikh & P. K. Bhattacharya	Schiff base formation from coordinated diamine in mixed complexes of Cu (II) and Ni (II)	Ind. J. Chem. Vol. 14A, No. 8, 617 (1976)
(10) B. T. Thaker and P. K. Bhattacharya	Mixed ligand complexes of Ni (II) with 2-OH-1-naphthaldehyde and 2-OH-acetophenone and formation of mixed Schiff base complexes	Ind. J. Chem. Vol. 14 No. 8, 619 (1976)
(11) V. B. Mohankumar and P. K. Bhattacharya	Studies in some mixed schiff base complexes—Part II	Ind. J. Chem., Vol. 15A, No. 2, 132 (1977)
(12) Uma Dora-Swamy and P. K. Bhattacharya	Studies in some Ketoester complexes	J. Ind. Chem. Soc., Vol. (1) pg. 100 (1976)
(13) Rakesh Kohli and P. K. Bhattacharya	Studies on some mixed Schiff base complexes—Part V	Bull. Chem. Soc., Japan, Vol. 49 (10), pg. 2872, (1976)
(14) Uma Dora-swamy and P. K. Bhattacharya	Studies in some mixed ligand complexes containing—dicarbonyls—Part III	Vol. 15 (A) (2), pg. 129 (1977).

Name	Title	Name of the Journal wherein published with month of publication
(15) B. T. Thaker and P. K. Bhattacharya	Nitration of binary and ternary schiff base complexes of Cu (II)	Bull. Chem. Soc., Japan, 49 (10), 2845 (1976)
(16) Uma Dora-swamy and P. K. Bhattacharya	Studies in some mixed ligand complexes—Part XIII	Ind. J. Chem. 15A (3), pg. 253 (1977).
(17) S. P. Prajapati and Suresh Sethna	Studies in Chromones and flavones—Part XI, Synthesis of some Biochromonyls	Indian Chem. Soc., 1976, 53, 300
(18) D. O. Shah and K. N. Trivedi	Synthesis of 9-N-Substituted Aminomethylphenanthrenes	Indian J. Chem., Vol. 14B, 1009 (1976)
<b>Geology Department</b>		
(19) S. J. Desai and S. G. Patel	Spilite-Keratophyte-Soda-granite Association of Ranibagh-Amritpur area, Nainital, Dist. Almora	Himalyan Geology, Vol. VI B, 1009 (1976)
(20) O. K. Shah and S. S. Merh	Spilite of Bhimatal-Bhowali area, Dist. Nainital, U.P.	Himalayan Geology, Vol. 6
(21) M. V. Muley and S. D. Desai	Synthetic graphite: Manufacture, Properties and Uses	Journal of M. S. U. of Baroda Science Issue, Vol. 24, No. 3, pp. 33 to 35, 1975
(22) M. V. Muley and S. D. Desai	Geological investigation of the Fulpari graphite deposit, Panchmahals district (Guj. State)	Mineral Wealth, Vol. XII-1, Jan.-June, 1976
(23) S. R. Nayak and S. D. Desai	Utilization of Bauxite in Industries	Mineral Wealth, Vol. XII-2, July-Dec., 1976
(24) D. R. Gadekar	Heavy mineral analysis of Tertiary sedimentary rocks around Jhagadia district, Broach, Gujarat, and its significance in the inference of provenance	Proc. Ind. Sc. Cong., Part III, p. 7, Jan., 1977



Name	Title	Name of the Journal, wherein published with month of publication
<b>Mathematics Department</b>		
(25) Dr. J. P. Singhal	Certain expansions associated with hypergeometric functions of variables.	Glasnik Mat. III Ser. 11 (31) (1976), 239-245
(26) S. R. Agrawal	On the uniform convergence of a series of Bessel functions	Jour. of M. S. Uni., Baroda, XXIV, No. 3 (1975), 41-44
(27) S. R. Agrawal	On the convergence & Riesz-summability of a Fourier-Bessel series.	Jnanabha, Se ct. A., 5 (1975) 145-160.
(28) S. R. Agrawal	On the mean convergence of Dini series.	Rendiconti dell Accademia Nazionale, dei Lincei, LXII, No. 3 (1977), 1-11.
(29) G. B. Patel	On the absolute summability of a lacunary Fourier series	Jour. of M.S. University Baroda, XXIV, No. 3 (1975).
(30) J. R. Patadia	On the absolute convergence of lacunary Fourier series.	Jour. of the London Mathematical Society, 2(14) (1976).
<b>Microbiology Department</b>		
(31) Freny Doctor & V. V. Modi	Genetic Mapping of Leucine & Isuleucine-Valine Loci in <i>Rhizobium japonicgs</i> .	J. Bac. (1976), 126, 997.
(32) A. N. Kachhy & V. V. Modi	Catechol Metabolism in <i>Pseudomonas aeruginosa</i> Regulation of metafission Pathway.	Ind. J. Expt. Biol. 1976, 14, 163.
(33) A. N. Kachhy and V. V. Modi	Properties of catecho 12, 3 oxygenase from <i>Pseudomonas aeruginosa</i> .	Ind. J. Biochem. and Biophys 1976, 13, 234.
(34) A. M. Madia, A. K. Mattoo and V. V. Modi	Properties of Ribose reductase from a Flavinogenic culture of <i>Eremothecium ashbyii</i> .	Ind. J. Biochem. and Biophys. 1976, 13, 228.
(35) A. M. Madia, A. K. Mattoo, V. V. Modi and Gira P. Amin.	Enzymic Constitution Ribitol formation and flavinogenesis in <i>Eremothecium ashbyij</i> .	Ind. J. Exp. Biol. 1976, 4, 680.

Name	Title	Name of the Journal wherein published with month of publication
(36) J. D. Desai, Jyotsna Misra and V. V. Modi	Phosphorus uptake in Biotin deficient <i>Asperllius nidulans</i> .	Ind. J. Exp. Biol. (1976) 14, 198.
(37) J. D. Desai and V. V. Modi	Assismilation of Ammonia and growth of biotin deficient <i>Asp. nidulans</i> .	Experientia (1970) 32, 423.
(38) A. P. Purohit and P. J. Dave	Extracellular Mutation in Kappa phage of <i>Serratia marcescens</i> and comparison with spontaneous mutations.	Proc. of Sympon mutagenicity, Carcinogenicity and teratogenicity of chemicals (1975), p. 161.
(39) S. M. Baqui, A. K. Mattoo and V. V. Modi	Glyoxylate metabolism and fatty acid oxidation during development and ripening of mango.	Phytochem. (1977) 16, 51.
(40) Satya Rao and V. V. Modi	Carotenogenesis: Possible mechanism of action of tri-sporic acid in <i>Blakeslea tri-spora</i>	Experientia, 33, 31 (1977)
(41) N. N. Rao and V. V. Modi	Fructose, 1, 6, diphosphase from <i>Mangifera ināica</i>	Phytochemistry 1976, 15 (1)
(42) Rao K. K., A. R. Gupta and V. K. Singh	Mutants affecting tryptophan synthetase activity and Ergot alkaloid formation in <i>Aspergillus fumigatus</i>	Symposium on mutagenicity carocinogenicity and teratogenicity of chemical held at Baroda, 1976
(43) A. R. Gupta and K. K. Rao	Role of biotin in alkaloid formation by <i>A. fumigatus</i>	Ind. J. Biochem. Biophys. (1977), 84.
(44) R. B. Lathigra and P. J. Dave	Microbial spectrum of Circulating coins.	Proc. of 2nd U.G.C. Seminar on Environmental Pollution of Gujarat., 1977, 267.
(45) D. K. Shah and P. J. Dave	Characterisatlon of staphylococci strains isolated from healthy skin	Proc. of 2nd U.G.C. Seminar on Environmental Pollution. Problems of Gujarat (1977), 273



Name	Title	Name of the Journal wherein published with month of publication
<b>Physics Department</b>		
(46) V. P. N. Nampoori and M. M. Patel	Rotational analysis of A-X and B-X systems of InBr molecule	Curr. Sc. 45, 369-370, 1976
(47) V. P. N. Nampoori, M. N. Kamalasanan and M. M. Patel	Rotational analysis of B-X system of InCl molecule	Ind. Phys. 60, 1977
(48) V. P. Bhatt and S. B. Trivedi	Chemical and Thermal etching of Se-Te whisker crystals	J. of Crystal growth, 37, 1977, 23-28
(49) V. P. Bhatt, R. D. Rao, G. R. Pandya and A. R. Vyas	Transverse striations and Dendritic Growth of BiSb crystals	Indian J. of Pure and Appl. Phys. 14 (1976), 537-543
(50) R. V. Joshi and L. H. H. Prasad	The luminescence of Heavily doped KCl: Tl Phosphors	J. of Luminescence 15, 105, 1977
<b>Statistics Department</b>		
(51) A. G. Phatak and D. K. Shah	The Maximum likelihood Estimation under Curtailed Three Class Attributes Plans	Technometrics, May 1977
(52) M. Sreehari	On the Unimodality of the sample median	Gujarat Stat. Review, Vol. 3, 1976
(53) M. Sreehari	Rate of convergence in the Random Central Limit theorem	M.S.U. Journal, Vol. 42, 1976
(54) M. Sreehari and S. W. Dharmadhikari	A note on Stable Characteristic function	Sankhya A. Vol. 38, 1976
(55) M. Sreehari and D. N. Shanbhag	On Self decomposable distributions	Z. Wahrscheinlichkeits-theorie, Vol. 38, 1977
<b>Demographic Research Centre</b>		
(56) Narayan Das and Divya Pilo B.	Baroda Reporter	Annual Publication of Demographic Research Centre, Baroda. Issue 9, August, 1976

Name	Title	Name of the Journal wherein published with month of publication
<b>Zoology Department</b>		
(57) Shah R. V., Patel S. T. and Pilo B.	Adaptive changes in the activities of acid and alkaline phosphatases in liver and kidney of migratory birds, wagtail ( Motacilla alba ) and rosy pastor ( Sturnus roses )	J. Anim. Morph. Physiol. 23: 1 & 2, pp. 90-100, 1976
(58) Ambadkar P. M. and Kotak V. C.	Seasonal variations of lipids and cholesterol in wild pigeon, columba livia : A quantitative study	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 101-114, 1976
(59) Pilo B., Patel P. V. Asnani M. V. and Shah R. V.	Studies on developing avian activities of acetyl cholinesterase in the liver and serum and the ionic concentrations in the liver of post-hatching developing pigeon.	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 115-121, 1976
(60) Shah R. V., and Menon G. K.,	Metabolic regulation of growth and differentiation in developing feathers : Histochemical evaluation of the involvement of hexose monophosphatase pathway	J. Anim. Morph. Physiol. 23 : 1 & 2 pp. 122-131, 1976
(61) Shah R. V., Kishnani K. T., Kathuria P. D., Asnani M. V. and Pilo B.	Wound healing and repair in the liver of allowan diabetic rats 2. A quantitative study of ascorbic during the process	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 132-143, 1976.
(62) Shah R. V., Kathuria P. D., Kishnani K. T., Asnani M. V. and Pilo B.	Wound healing and repair in the skin of alloxan diabetic rats. 2. Quantitative study on the ascorbic acid content of the healing wounds of skin	J. Anim. Morph. Physiol. 23 : 1 & 2 pp. 144-152, 1976



Name	Title	Name of the Journal wherein published with month of publication
(63) Shah R. V., Kinariwala R.V and Ramachandran A. V.	Histoenzymology of regenerating lacertilian tail: I. ATP phosphohydrolase (ATPASE) activity during regeneration in the scincoid lizard <i>Mabuya carinata</i>	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 153-158, 1976
(64) Shah R. V. and Ramachandran A. V.	Metabolic changes during regeneration : Succinate and isocitrate dehydrogenases (SDN & ICDN) in the normal and regenerating tail of the scincoid lizard, <i>Mabuya carinata</i>	J. Anim. Morphol. Physiol. 23 : 1 & 2, pp. 167-175, 1976
(65) Ambadkar P. M. and Gangarmani N. F.	Effects of castration on liver lipids in albino rats.	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 185-198, 1976
(66) Shah R. V., Patel S. T. and Pilo B.	A histochemical study on isoenzymes of alkaline phosphatase in the intestine of migratory wagtail, <i>Motacilla alba</i> .	J. Anim. Morph. Physiol. 23 : 1 & 2 pp. 219-221, 1976
(67) Shah R. V., Menon G. K. and Jani M. B.	Lipoblastoma of pigeon integument—A case report	J. Anim. Morph. Physiol. 23 : 1 & 2, pp 222-224, 1976
(68) Shah R. V., Kothari J. S. and Hiradhar P. K.	Involvement of renal and hepatic ascorbic acid in the tail regeneration of the lizard <i>Hemidactylus flaviviridis</i> (Lacertillia : Gekkonidae).	J. Anim. Morph. Physiol. 23 : 1 & 2, pp. 167-175, 1976.

## (b) Published Books and Brochures :

Sr. No.	Name of the authors	Name of the Book	Publisher
(1)	Prof. C. H. Pathak and Dr. A. R. Mehta	Physiology of Flowering ( in Gujarati )	University Granth Nirman Board, Ahmedabad.
(2)	Prof. (Mrs.) V. A. Janaki	Some Aspects of Political Geography of India.	Published by M. S. U. Press, Baroda in March, 1977

## (c) Papers presented at all India level Seminars, Conference etc.

Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
(1) Prof. (Mrs.) R. Rajalakshmi	"The Responsibility of Science in the Modern World Organised by the Menarini Foundation from October 3-6, 1975, Florence, Italy.	This Bountiful Earth and its Hungry Inhabitants.
(2) Prof. (Mrs.) R. Rajalakshmi	Symposium on Vitamin and carries function of Polyprenoids held at the Indian Institute of Science, Bangalore from December 7-11-1977	Studies on carotene and vitamin A with regard to nutritional status utilization and requirements.
(3) Prof. (Mrs.) R. Rajalakshmi	The New York Academy of Science Conference "Human Nutrition" from March 2-5, 1977.	Lectation performance as a function of nutrition and social class.
(4) Dr. S. K. Srivastava	International Symposium in Physiology of Sexual Reproduction in flowering Plants", December, 1976 held at Punjab Agricultural University, Ludhiana.	1. Studies on the inhibitor of diamine oxidase from the cotyledon of groundnut seeds. 2. Role of diamine oxidase in the physiology of pea seed germination. 3. Effect of ethrel and chloroethanol on polyamine metabolism in germinating
(5) Kamlesh Lulla	Asian Workshop on Conservation Ecology organized by International Federation, Sri Lanka Soil Conservation Society and IES, India, May 21 to June 15, 1976.	Role of Ecological viability of habitat in Conservation Practices.
(6) A. R. Mehta	All India Seminar on Horticultural Crops, June 3-5, 1976	Role of Tissue Culture in propagation and production of improved cultivars of Horticultural and Crop Plants



Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
(7) A. R. Mehta	I.C.A.R. Workshop on Medicinal Plants, at Guj. Agri. Univ., Anand, Nov. 1-4-1976	Growth and Alkaloid production in <i>Datura</i> Cell suspension cultures as influenced by Periodic additions of Precursors
(8) A. R. Mehta	I.C.A.R. Workshop on Medicinal Plants, at Guj. Agri. Univ., Anand Nov. 1-4-1976	Development of an Industrial Medium and Selection of Strains or High Diosgenin Production by <i>Dioscorea deltoidea</i> tissue cultures
(9) C. H. Pathak	UGC-Symposium on Restructuring of Under-graduate Courses, at University of Jodhpur, Nov. 1-7-1976	Plea for Uniformity of courses in Botany
(10) A. R. Mehta	-do-	Internal Assessment—A Critical Evaluation
(11) C. H. Pathak, Kamlesh Lulla, and S. D. Sabnis	Problems of Environment of Baroda region organised by Baroda Municipal Corporation, Gujarat Federation of Mills & Industries, Indian Petro-Chemicals Ltd. and Govt. of Gujarat, Nov. 19-20 1976	Biotic Pollution Stresses and Vegetation
(12) A. R. Mehta	International Symposium on "Physiology of Sexual Reproduction in Flowering Plants" at Punjab Agri. Univ. Ludhiana, Dec. 23-24, 1976	Test-tube Approaches to bypass Sex in Higher Plants
(13) Kamlesh Lulla, S. D. Sabnis and C. H. Pathak	World Health Organization Seminar on Problems of Water Pollution. Jan. 1-10-1977	What Pollution does to the Vegetational Systems and Forest Ecosystems—The Case of Gujarat
(14) R. R. Shah and A. R. Mehta	64th Session of Indian Science Congress, Jan, 3-7, 1977. Bhubaneswar	Ammonialyases and IAA oxidase activities in germinating Seeds of <i>Crotalaria</i> .

Name of the Teacher	Names, Place and Dates of the Conference/Seminar	Title of the Paper presented
(15) Shylaja Rao and A. R. Mehta	64th Session of Indian Science Congress, Jan., 3-7, 1977. Bhubaneswar	Accumulation of Phenolic compounds and expression of ammonialyases in response to different nitrogen levels in groundnut callus cultures.
(16) V. P. Fadia and P. H. Bhatt.	64th Session of Indian Science Congress, Jan., 3-7, 1977. Bhubaneswar	Induction and growth of <i>Benincasa callus</i> tissue in vitro.
(17) M. K. Kshirsagar and A. R. Mehta	UGC-Symposium on "Recent Researches in Plant Sciences" at Punjabi Univ., Patiala, Jan. 20-22, 1977.	In vitro studies on the Life Cycle of <i>Acrostichum aureum</i> L.
(18) P. H. Bhatt and A. R. Mehta	ICAR-Seminar on "Research Methodology at Guj. Agri. Univ. Navsari.	Isolation of viable cells from intact Plant & their In vitro Culture.
(19) R. R. Shah and A. R. Mehta	UNESCO-sponsored-3rd Asian Symposium on Medicinal Plants and Spices, at Colombo, Ceylon, Feb. 6-12, 1977.	Polyphenol accumulation & the Development of Allied Enzymes in <i>Crotalaria</i> & <i>Cassia</i> . Tissue Cultures.
(20) A. R. Mehta	Conference of the Tissue Culture Association of India at N. B. G. Lucknow, Feb. 14-16, 1977.	Polyphenol Production in Cultured Tissues.
(21) Kamlesh Lulla	Problems of Pollution of Gujarat. UGC-Sponsored Symposium at L.D. College of Enggr., Ahmedabad. Feb. 17-18-19, 1977.	Imbalances in Residual Vegetational areas in Urban Ecosystems-The Case of Baroda.
(22) S. D. Sabnis	Ayurvedic Conference-March, 1977, at Ahmedabad.	Tribal uses of some medicinal plants of Gujarat.
(23) S. L. Bafna	The Theory and Practice of Ion Exchange, University of Cambridge, U. K. (1976)	Molecular sorption on Ion Exchange Resins: Substituted coumarin.



Name of the Teacher	Names, Place and Dates of the Conference/Seminar	Title of the Paper presented
(24) D. N. Shringarpure, Geeta Desai, and S. S. Merh	Paper presented at Group discussion on Geology and Mineral Resources of Gujarat, Ahmedabad (12th Anniversary Celebrations of Geological Survey of India) Oct. 1976.	Waged Mesozoic: Shore-line shifts in the Eastern Kutch.
(25) D. M. Shringarpure, Geeta Desai and S. S. Merh	Paper presented at the VIth Indian Collquion on micro-plaeontology and stratigraphy at Banaras, Dec., 1976	Stratigraphic Leakage: A problem with the Foraminiferal Assemblage of the Wagad mesozic sediments of eastern Kutch.
(26) D. M. Shringarpura, Geeta Desai and S. S. Merh	First Convention, Indian Association of sedimentologists. Aligarh Muslim University, December, 1976.	Kutch Mesozoic: Significance of the fossiliferous beds in the eastern Wagad sedimentary sequence of the eastern Kutch.
(27) D. R. Gadekar	First Convention, Indian Association of sedimentologists, Aligarh Muslim University, December, 1976.	Petrography of the tertiary sedimentary rocks around Jhagadia, district Broach Gujarat and its signification in the inference of provenance
(28) D. R. Gadekar	Group Discussion on Geology and Mineral Resources of Gujarat, G.S.I., 1976, P. 13.	Some aspects of stratigraphic and sedimentologic investigations of agate conglomerates near Jhagadia district Broach and their geniss and exploitation
(29) K. K. Rao and A. R. Gupta	Second Conference of Commonwealth Pharmaceutical Association held at Bombay January, 1977.	Factors affecting alkaloid production in <i>A. fumigatus</i>
(30) K. K. Rao, A. M. Madia and Gupta	45th Annual meeting of Society of Biological Chemists of India held at Hyderabad. November, 1976.	Phosphorus uptake in Tween supplemented culture of <i>A. fumigatus</i>

Name of the Teacher	Names, Place and Dates of the Conference/Seminar	Title of the Paper presented
(31) H. B. Mehta and V. V. Modi	17th Annual Conference of AMI held at Manipal, 1976.	Stimulation of Flavino genesis by riboflavin in <i>E. ashbyii</i>
(32) P. P. Gill and V. V. Modi	17th Annual Conference of AMI held at Manipal, 1976.	Some aspects of metabolic alterations during biotin deficiency in <i>A. nidulans</i>
(33) Satya Rao and V. V. Modi	14th Annual Meeting of Indian Academy of Sciences Nov., 1976.	Regulation of carotenogenesis in <i>Blakeslea trispora</i>
(34) Dr. V. P. Bhatt and Dr. G. R. Pandya	Nuclear Physics & Solid State Physics Symposium at Ahmedabad. from 27-12-76 to 31-12-76.	Effect of magnetic field in dislocation in tellurium crystals
(35) Dr. A. G. Phatak	5th Annual Conference of Gujarat Statistical Association, Ahmedabad. December, 1976.	Curtailed Sampling Plans
(36) M. M. Gandotra	The Population Council of Baroda and The Rotary Club, Baroda. January 23, 1976.	Compulsory Sterilisation—its Demographic Implications and Implementation in Gujarat
(37) M. M. Gandotra and N. L. Patel	Second All-India Social Scientists Convention, Banaras Hindu University, Varanasi, Feb. 20, 22 1977	Economic Structure of Cities and Town and Their Impact on Urban Growth of Gujarat State
(d) Talks given at different Institutions :		

Name of the Teacher	Institutions	Subject of the Lecture
(1) Dr. A. R. Mehta	Shivaji University, Kolahpur	U.G.C. Programme of exchange of Teachers.
(2) Prof. V. M. Shah	South Gujarat University, Surat	Delivered a course of three lectures on "Functional Analysis" at a one week U.G.C. sponsored seminar on 'Modern Mathematical



Name of the Teacher	Institutions	Subject of Lecture
(3) Prof. V. M. Shah	R.P.T.P. College, Vallabh-Vidyanagar, S. P. University	trends in fluid dynamics" from 3-5-76 to 8-5-76 A lecture on "From familiar" a mathematical process in a UGC sponsored Summer Institute on 1-6-1976
(4) Prof. V. M. Shah	J. and J. Science College, Nadiad, Gujarat University	A lecture on "Set Theory and Russells Paradox" on 21-1-77
(5) Prof. V. M. Shah	Bulsar Science College, Bulsar, South Gujarat University	A lecture on "Mathematical thinking" on 24-1-77

## (e) Participation in Inservice Programme :

Name of the Teacher	Programme, Place and Date	Capacity in which participated
(1) Prof. C. H. Pathak	Teaching Technology and Higher Education organized by Centre of Advanced Study in Education	Resource Person as well as Participant
(2) Kamlesh Lulla	Teaching Technology and Higher Education organized by Centre of Advanced Study in Education	Participant
(3) Dr. A. R. Mehta, Dr. S. N. Padate, K. Lulla and S. Bagade	Orientation Course for Higher Secondary Teachers	Resource Persons and Faculty member
(4) Dr. C. H. Phathak	U. G. C. sponsored Refresher course on "Current Trends in Plant Science", May 8-21, 1977.	Director
(5) Shri A. K. Mekwan	Seminar of Higher, Education 'CASE', Faculty of Education and Psychology, Baroda from 27-1-77 to 31-3-77	Participant
(6) Shri V. D. Pathak	Summer School on "Industrial Statistics and Operations Research" at Indian Institute of Technology, Bombay from 3-5-76 to 29-5-76.	Participant

Name of the Teacher	Programme, Place and Date	Capacity in which participated
(7) Sarvashri S. R. Agrawal and N. V. Patel	Workshop on the Test Development in Mathematics organized by the NCERT in Trivendrum from 16-6-76 to 30-6-76	Participants
(8) Prof. V. M. Shah	Higher Secondary School Teachers Training Programme for two weeks sponsored by Gujarat State Government from 28-10-76 to 6-11-76	Convener

## 6. Demographic Research Centre

(1) Mr. M. M. Gandotra, Demographer participated in the Second Annual Conference of the Indian Association for the study of Population, organised by IASP and held at the Institute for Social and Economic Change, Bangalore, in December, 1976. He gave a series of lectures on Demographic Transition, Mortality and Fertility Measures, Evaluation of Family Planning Programme and Population Projection to the students of Doctor of Medicine (M.D.) of the Department of Social and Preventive Medicine, Medical College, Baroda in March, 1977.

(2) Mr. Narayan Das, Research Officer, attended the Fifth Annual Conference of Gujarat Statistical Association, held at IIM, Ahmedabad, December 26-27, 1976.

(3) Dr. Divya Pandey, Investigator participated in the Seminar on "A Need for Limited Family and Compulsory Programme" organized jointly by All India Gram Sahyog Samaj, Gujarat, All India Youth Conference, Gujarat, and District Panchayat, Rajkot, held at Rajkot, October 7-8, 1976.

(4) The entire research staff of the Demographic Research Centre, Baroda participated in the one day National Seminar on Family Planning organised jointly by the Population Council of Baroda and the Rotary Club, Baroda Chapter, on 23rd January, 1977. Dr. (Mrs.) Divya Pandey, Investigator worked as a Rapporteur for the Session 1 of the Seminar.

## 7. Faculty Publications

Name of the Journals	Editor	Month of Publication
(1) Baroda Journal of Nutrition	Prof. (Mrs.) R. Rajalakshmi	July and December.
(2) Journal of Animal Morphology and Physiology	Prof. R. V. Shah	June and December.
(3) "PAVO" the Indian Journal of Ornithology	Prof. R. V. Shah	March and September.



## 8. Visitors

Name and Designation	Date of the Visit
(1) Prof. H. H. Draper, Professor and Chairman, Department of Nutrition Guelph University, Guelph, Ontario, Canada.	15-1-1977 to 25-2-1977.
(2) Prof. B. K. Nair, Department of Botany University of Calicut, Calicut	January, 1977.
(3) Dr. P. P. Oza, Head, Civil Engineering Department, L. D. College, Ahmedabad	February, 1977
(4) Dr. V. Jagannathan, Head, Biochemistry, N.C.L., Poona	January, 1977.
(5) Dr. G. C. Mitra, Calcutta University, Calcutta	20-4-1977.
(6) Dr. J. G. Patel, Chief Co-ordinator, All India Project on Tobacco, Gujarat Agricultural University, Anand	February, 1977.
(7) Prof. M. P. Singh, Head, Mathematics Department and Division of Bio- Sciences, Indian Institute of Technology, New Delhi-29	12-10-1976.
(8) Prof. David Dickinson, Mathematics Department University of Massachusetts, Mass., U.S.A.	22-12-1976 to 16-1-1977.
(9) Prof. Alice Dickinson, Mathematics Department, Smith College, Northampton, Mass., U.S.A.	22-12-1976 to 16-1-1977.
(10) Dr. B. P. Doctor, Walter Reid Army Research Institute, U.S.A.	28-11-1976.
(11) Dr. N. S. Subba Rao, I.A.R.I., New Delhi.	28-12-1976.
(12) Dr. Senez J. C., Secretary General of International Association of Micro- biological Society, France	7-10-1976.
(13) Dr. A. B. Roy, Head of the Geology Department, University of Rajasthan, Udaipur.	9-11-1976 to 13-11-1976.
(14) Dr. V. C. Thakor, Scientist, Wadia Institution of Himalayan Geology	8-11-1976 to 13-11-1976.

Name and Designation	Date of the Visit
(15) Dr. V. K. Gaur, Professor of Geophysics, Roorkee University, Roorkee.	10-11-1976 to 12-11-1976.

## 9. Important Events

(1) The Department of Botany conducted a U.G.C.-sponsored refresher course for college teachers on "Current Trends in Plant Science" May 8-12, 1977.

(2) A short term Institute in Structural Geology was organised in the Geology Department, sponsored by the U.G.C. There were 37 participants in the Institute out of which 12 were local and 25 from all over India.

(3) The Statistical Service Unit prepared the Statistical Summary of Medical Examination Reports of the students of the M. S. University of Baroda of 1973-74-75. The Unit gave Punch Operator's Training to 8 students.

(4) Dr. B. V. Shah, Chief Scientist of the Research Triangle, U.S.A. delivered Dr. N. M. Bhatt Lectures in September, 1977

(5) Professor M. R. N. Prasad, Head, Department of Zoology, delivered Dr. C. S. Patel Lectures on "Perspectives in Control of Human Fertility" and 'Hormonal Regulation of Sperm Maturation' on 31st January and 1st February, 1977.

(6) This year the Department of Zoology celebrated its Silver Jubilee year, though two years late. At a formal function, an account of the progress of the department in various fields of its activities was presented, which was also published in the form of a Silver Jubilee Souvenir. A Gold Medal in the name of "Prof. J. C. George Gold Medal" to be awarded to a student who passes M.Sc. Final examination in Zoology at the first attempt with first rank obtaining first class was instituted. The medal will be awarded each year beginning from 1977-78.

(7) Professor V. M. Shah, Professor and Head, Mathematics Department, and Shri G. B. Patel, Lecturer, conducted a short-term course in "New Mathematics for parents" from 5th to 10th July, 1976.



## CHAPTER X (A)—FACULTY OF EDUCATION AND PSYCHOLOGY

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

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

	Men	Women	Total
(a) Under-graduate Diploma:			
Diploma in Education I Year	4	4	8
Total	4	4	8
(b) Degrees:			
(i) B.Ed.	42	107	149
(ii) S.Y.B.A. (Psychology)	19	37	56
(iii) T.Y.B.A. (Psychology)	31	51	82
Total	92	195	287
(c) Post-graduate Degrees:			
(i) M.Ed. (Full-time)	14	9	23
(ii) Jr. M.Ed. (Part-time)	20	13	33
(iii) Sr. M.Ed. (Part-time)	24	5	29
(iv) M.A.—(Part I (Psy.))	10	14	24
(v) M.A.—Part II (Psychology)	4	13	17
Total	72	54	126
(d) Doctorate:			
(i) Ph.D. (Education)	7	5	12
(ii) Ph.D. (Psychology)	—	4	4
Total	7	9	16
Grand Total	175	262	437

### 3. Staff

#### (a) Present Position:

During the year the staff of the Faculty (including CASE) consisted of 4 Professors (One of whom is in the Senior Scale), 9 Readers, 26 Lecturers, 1 Teaching Assistant, 13 Junior Research Fellows, 2 Senior Research Fellows, 17 Class III and 10 Class IV employees.

#### (b) Teachers who left the University:

Dr. B. K. Passi, Reader in Education and Dr. M. Mukhopadhyay, Lecturer in Education resigned for better prospects.

### 4. Professional Growth of the Staff

#### (a) Publication of Articles/Papers:

Author	Title	Name of the Journal wherein published with month of publication
(1) Dr. M. S. Yadav	(i) Technology in Teacher Training Programme	Teacher To-day, Vol. 18, No. 3, 1976
	(ii) Modernisation of Syllabi in Teacher Education	Teacher To-day, Vol. 18, No. 3, 1976
	(iii) Educational Technology without Hardware	New Frontiers in Education, Vol. VI, No. 2, 1976
	(iv) Can you improve Examination System?	Question in Education, Vol. XIII, No. 2, 1976
	(v) College Teaching in Semester System	The Education Quarterly, Vol. XXVIII, No. 1, 1976
	(vi) Some Psychometric Studies in Attitude Scale Construction	Psychological Studies, Jan. 1976
	(vii) Education as a decline of study at University	University Administration, Vol. III, No. 1, 1977
	(viii) System of Grading in Higher Education—How and Why?	The Education Quarterly, Vol. XXVIII, No. 2, 1976
	(ix) Multimedia Approach to Collegiate Teaching	Journal of Higher Education, Monsoon, 1976
(2) Dr. D. C. Joshi	(i) Inservice Education of Teacher-Plea for New Approaches	Teacher Education, Vol. X, No. 4, July 1976
	(ii) A Few Dimensions of Curriculum Construction in an Autonomous School	The Rajasthan Board Journal of Education, Vol. XI, No. 3



<i>Author</i>	<i>Title</i>	<i>Name of the Journal wherein published with month of publication</i>
( 3 ) Dr. D. R. Darji	Leadership Behaviour	Nootan Shikshan, January, 1977
( 4 ) Dr. S. Roy	Grading System in Higher Education—Why and How?	Education Quarterly-July, 1976, Vol. XXVII, No. 2
( 5 ) Dr. (Smt.) Piloo Buch	( i ) Innovations in our Classroom—An untold story ( ii ) Institutional Planning	Quest in Education, Vol. XIII, No. 1, July, 1976 Nootan Shikshan, January, 1977
( 6 ) Dr. (Mrs.) N. A. Shelat	( i ) A page from Diary ( ii ) Co-operation—A Key to Success ( iii ) Organisational Climate its theory-components ( iv ) Organisational Climate—A Research Survey ( v ) Do you understand your children ? ( vi ) Organisational Climate ( vii ) Leadership Vs Bossy Attitude ( viii ) How to overcome stress? ( ix ) Culturation of Idiosyncrasy	Nootan Shikshan ( Gujarati Journal ), May-June, 1976 Nootan Shikshan ( Gujarati Journal, May-June, 1976 Nootan Shikshan ( Gujarati Journal, July, 1976 Nootan Shikshan ( Gujarati Journal, August, 1976 Nootan Shikshan ( Gujarati Journal ), December, 1976 Nootan Shikshan ( Gujarati Journal ), January, 1977 Nootan Shikshan ( Gujarati Journal ), January, 1977 Nootan Shikshan ( Gujarati Journal ), January, 1977 Nootan Shikshan ( Gujarati Journal ), February, 1977
( 7 ) Dr. M. Mukhopadhyay	( i ) College Teaching in Semester System ( ii ) Teacher Education—New Prospectuses ( iii ) Multimedia Approach to Collegiate Instruction	Education Quarterly, July, 1976 Rajasthan Board, Journal of Education, January, 1977 Journal of Higher Education ( U.G.C. ), January, 1977.

<i>Author</i>	<i>Title</i>	<i>Name of the Journal, wherein published with month of publication</i>
	( iv ) Actors and Reactors in Educational Change	Indian Educational Review, January, 1977
	( v ) Vice-Chancellor and Teachers in Indian Universities	University Administration, March, 1977
( 8 ) Dr. B. K. Passi, Sneha Joshi, Bimla Passi and M. S. Lalitha	( i ) Teaching a definition ( ii ) Lecture as a Method of Teaching	Teaching in Junior Colleges, State Institute of Education, Maharashtra, Pune, November, 1976. Teaching in Junior Colleges State Institute of Education Maharashtra, Pune, November, 1976
( 9 ) Shri R. C. Sharma	( i ) A Study of Traditional and Semester Examination ( ii ) University's Dilemma	Journal of Educational Research and Extension The Journal of University Affairs, January-Feb. 1977
(10) Shri B. R. Panchal	Syllabi of Higher Secondary Education	Seminars on New Pattern of Education ( 10 + 2 + 3 ) —A Report, Department of Extension Services, Faculty of Education and Psychology, Baroda, November 1976.
(11) Dr.(Mrs.) P. B. Dekhtawala	Teacher Morale	Nutan Shikshan, January 1977.
(12) Dr. J. J. Gajjar, Dr. (Miss) S. L. Patel, and Miss P. Shukla	Initiation of Educational and Vocational Guidance Programme in Secondary Schools	Nutan Shikshan, August, 1976
(13) Dr. (Smt.) S. J. Mehta	Instructional Process under the Impact of Technology	Quest in Education, Vol XIV, No. 2, April, 1977



Author	Title	Name of the Journal wherein published with month of publication
(14) Prof. A. S. Patel	(i) Why do people change—The Psychology of Communication Perseverance and Social Influence—Its implication for social change and national reconstruction	Presidential Address at the Section of Psychology and Educational Sciences—Published by the Indian Science Congress, Bhubaneshwar, January, 1977
	(ii) An inquiry into the relations of creativity to academic achievement of the intellectually gifted	Paper presented at the Section of Psychology and Educational Sciences (jointly with Dr. R. J. Joshi) and published by the Indian Science Congress, Bhubaneshwar, January, 1977
	(iii) A study of the marital adjustment of complies from higher and lower socio-economic status	Paper presented at the Section of Psychology and Educational Sciences (jointly with Miss Saryu Desai) and published by the Indian Science Congress, Bhubaneshwar, January, 1977
	(iv) The effect of Classroom teaching on the change in brief	Paper presented at the Section of Psychology and Educational Sciences (jointly with Dr. B. A. Parikh) and published by the Indian Science Congress, Bhubaneshwar, January 1977
(15) Dr. Z. M. Quraishi	A Comparative Study of Indirect and Direct Teachers on certain Personality Traits	Trends in Education, Vol. II, No. 2, October, 1976

## (b) Publication of Books and Brochures

Name of the Teacher	Title of the Book	Name of the Publisher with the month of publication
1	2	3
(1) Dr. M. S. Yadav	Educational Evaluation—A Package of Self-instructional Material	Sahitya Mudranalaya, Ahmedabad, January 1977
(2) Dr. D. R. Darji	Seminars on New Pattern of Education—A Report edited by Prof. A. S. Patel, Dean, Faculty of Education and Psychology, Baroda	Department of Extension Services, Faculty of Education and Psychology, M. S. University of Baroda, Baroda, November, 1976
(3) Dr. (Smt.) Piloo Buch	Measurement of Innovation Anthology of Tools	Sahitya Mudranalaya, 1976
(4) Shri S. D. Joshi with Dr. B. V. Shah	Trend Report on Sociology of Education	Revised edition of Survey of Research in Education
(5) Dr. (Smt.) S. J. Mehta	Monograph : Effective Teaching of English through Aural-Oral approach and Match stick drawings	Department of Extension Services, Faculty of Education and Psychology, M. S. University, Baroda, No. 70.

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

Name of the Teacher	Name, Place and date of Conference/Seminar, etc.	Title of the paper presented
(1) Dr. M. B. Buch	UNESCO-APEID sponsored National Advanced Level Workshop for Teacher Educators at Baroda, April 4, to 13, 1977	(i) Mouni Vidyapith : Teacher Education in Rural Sitting.
		(ii) Gujarat Vidyapith : Linking Teacher Education with Rural Reconstruction



<i>Name of the Teacher</i>	<i>Name, Place and Date of Conference/Seminar, etc.</i>	<i>Title of the Paper presented</i>
		(iii) Developing skills of Instruction through Simulation and Micro-teaching
		(iv) Educational Technology for Teacher Preparation
(2) Dr. M. S. Yadav	(i) Indian Science Congress, Bhubaneswar, January 1977	An Integrated Approach to resource utilization for Educational Development in a Rural area
	(ii) APLET Conference University of Surrey, March 28-31, 1977	Evolution of and Instructional Strategy for Teaching Educational Evaluation
	(iii) Agricultural University-Gujarat, Anand, September 16-20, 1976	(i) Objectives of Teaching at University Stage
		(ii) Teaching in University Methods and Media
		(iii) Grading System in Higher Education
		(iv) Question Bank as a resource for Evaluation
		(v) Improvement of Essay type Examination
		(vi) Objective and Short Answer Tests
(3) Dr. C. D. Joshi	Seminar on Higher Education (Agriculture University at Anand)	Purposes of Higher Education
(4) Dr. (Miss) M. M. Shah	International Seminar on Microteaching, CASE Baroda, 24-1-1977 to 25-1-1977	Researches done in the CASE, Baroda

1	2	3
(5) Dr. G. R. Sudame	All India Seminars on Micro-teaching, Interaction Analysis and Simulation, Baroda, September, 1976	Skill of Probing Questioning
(6) Dr. D. R. Darji	All India Seminar for Teachers and Principals organized by All India Association of Catholic Schools, 25-10-1976 to 30-10-1976	(i) Leadership Behaviour (ii) Organisational Climate (iii) Human Relations in Educational Administration (iv) Teacher Morale
(7) Dr. (Smt.) Piloo Buch	Indian Association of Programmed Learning, Calcutta-January 7, 8, 9, 10, 1977	Promoters of Educational Innovations
(8) Dr. (Mrs.) N. A. Shelat	(i) National Seminar on Micro-Teaching, CASE, Baroda, 27th Aug., 1976 (ii) Conference of Co-ordinators for planning and discussing the role of Extension Services in the present changing set-up, Bhopal, 14th and 15th June, 1976 (iii) State Level Conference of Co-ordinators to plan and future plan of action, Porbandar, 28th to 30th July, 1976	Skill of Silence and Non-verbalness An evaluation of the present Extension Services Departments An evaluation of the present Extension Services Departments
(9) Mrs. Sneha Joshi	(i) Effective Teaching Seminar organized by Jesuits Association, India, Bangalore, 28th April to 28th May, 1976	Skill of Stimulus Variation



1	2	3
	(ii) Microteaching Seminar organized by AINACS, CASE, Baroda, July, 1976	(i) Skill of stimulus variation (ii) Skill of illustrating with examples (iii) Skill of recognizing attending behaviour
(10) Shri B. R. Panchal	National Seminar on Microteaching, Interaction Analysis and Simulation organised by the NCERT and the CASE, Baroda from 23rd August to 1st September, 1976	Skill of Increasing Pupil Participation
(11) Shri S. D. Joshi	Seminar on Methods of Teaching Evaluation in Higher Education and the Role of University Departments of Education therein, 1st to 4th March, 1976. CASE, Baroda	Tutorial System—A self-help programme in Higher Education.
(12) Dr. (Smt.) S. J. Mehta	National Seminar on Micro-Teaching Interaction Analysis and Simulation, CASE, M. S. U., Baroda, 26-8-1976	Skill of Introducing a lesson

Name of the Teacher	Name of the University/ Institution	Subject of the talk given
(1) Dr. D. B. Desai	Bombay University	On Motivation Sensitivity Communication
(2) Dr. M. S. Yadav	University of Mysore	Utilising Educational Technology in Correspondence Education.
(3) Dr. (Miss) M. M. Shah	(i) S.T.T. College, Kheda (Gujarat University) (ii) Rang Shikshan Mahavidyalaya, Bilimora (South Gujarat University)	Microteaching Microteaching

Name of the Teacher	Name of the University/ Institution	Subject of the talk given
	(iii) Mahila Mahavidyalaya, BARODA (SNDT)	Microteaching
	(iv) S L.U. College, Ahmedabad (Guj. University)	Microteaching
	(v) Gandhi Shikshak Mahavidyalaya, Gulabpura (Raj. Univ.)	Microteaching
(4) Dr. D. R. Darji	College of Education, Petlad, 21-1-1977	(i) Use of Community Resources in Teaching Social Studies (ii) Assignment Method
(5) Dr. (Mrs.) N. A. Shelat	(i) Baroda Citizen Council Social (Field) Workers, 3rd August, 1976 (ii) Baroda City Jaycees Elocution Competition, 11th Sept., 1976 (iii) Baroda Productivity Council, 22-9-1976 (iv) Broach District Seminar on Social Reconstruction, 6th Oct., 1976	How do you perceive your child? Present acting styles of Debates Youth and Leadership Role Unit Plans and their importance in teaching of Social Studies
(6) Shri S. D. Joshi	Natwarsinghji Arts and Science College, Chhota Udepur	Sociology of Economics Development with reference to India
(7) Dr. (Miss) S. L. Patel	(i) Baroda Citizen Council, 4-8-1976 (ii) Rang Shikshan Mahavidyalaya, Billimora, (S. G. U.) (iii) Mahila Mahavidyalaya (Baroda), SNDT, 7-9-1976 & 8-9-1976 (iv) S. L. U. College, Ahmedabad (Gujarat Uni.), 4-10-1976	How to teach educationally backward children? Microteaching Seminar Microteaching Seminar Microteaching Seminar



Name of the Teacher	Name of the University/ Institution	Subject of the talk given
( 8 ) Dr. ( Smt. ) S. J. Mehta	( i ) Teacher Training Course in English, Gujarat State Programme	How to teach English in Class VI in the State of Gujarat ( 1977 )
	( ii ) Gujarat State Publicity and Information Services	Dairy System

## ( e ) Participation in Inservice Programme :

Name of the Teacher	Programme, Place and Dates	Capacity in which participated
( 1 ) Dr. M. B. Buch	( i ) UNESCO APEID Sponsore Sub-Regional Workshop on Curriculum for Development, Srilanka, Oct. 1 to 30, 1976	Participant
	( ii ) UNESCO-APEDI Sponsored Study Group on Preparing Teachers for Education in Rural Development and Transformation, Bangkok, Oct. 18, to Nov. 6, 1976	Participant
( 2 ) Dr. D B. Desai	( i ) Orientation Course for Head Teachers on Developing the Motivational Climate in Schools and Classrooms at Coimbatore ( May 1976 )	Director
	( ii ) JMEA Seminar on Motivating Classroom Climate at Mussourie, ( 3rd to 7th July 1976 ), Agra ( Nov. 1976 ), Delhi ( Nov. 1976 ), Ambala ( Nov. 1976 ), Khandala ( Dec. 1976 ), Bombay ( Dec. 1976 )	Director
	( i ) All India Teacher Educators' Conference at Delhi	Participant

Name of the Teacher	Programme, Place and Dates	Capacity in which participated
( 3 ) Dr. M. S. Yadav	Inservice Education Programme in Methodology of Teaching for Fresh and Newly Appointed Lecturers of the M. S. University of Baroda, CASE, Baroda, July-October, 1976	Resource Person
( 4 ) Dr. D. C. Joshi	Seminars on Higher Education for M. S. University Teachers	Organiser
( 5 ) Dr. ( Miss ) M. M. Shah	( i ) Vigyan Shibir for Science Teachers, Dholka, 27/28- 9-1976	Chief Guest
	( ii ) Vocational Guidance Seminar, Ahmedabad, 7th to 10th Dec., 1976	Resource Person and Participant
	( iii ) Himachal Pradesh University, Simla, 1-11-1976 to 10-11-1976	Visiting University Teacher
	( iv ) Workshop for the Instructional material in Science for Std. VI, Sharadagram ( Saurashtra ), conducted by Gujarat State School Text-Book Board, Ahmedabad 10-10-1976 to 20-10-1976	Expert in Methodology of Science
( 6 ) Dr. G. R. Sudame	( i ) All India Seminar on Microteaching, Interaction Analysis and Simulation, Baroda, Sept. 1976	Resource Person
	( ii ) Inservice Education Programme in Methodology of Teaching for Fresh and Newly Appointed Teachers of the M. S. University, CASE, Baroda, July-Oct. 1976	Resource Person



Name of the Teacher	Programme, Place and Dates	Capacity in which participated
( 7 ) Dr. D. R. Darji	( i ) Orientation Course on creating Motivating Climate in Classrooms and Schools, Coimbatore, 11-5-76 to 17-5-1976	Resource Person
	( ii ) How Children Learn, Baroda Citizen Council, Baroda	Resource Person
	( iii ) Experiment in Classroom Climate, Jesus and Mary Educational Association, Simla, 23-8-76 to 28-8-1976	Resource Person
	( iv ) Orientation Course on Social Studies and Social Reconstruction, Devgarh Baria 27-9-76 to 30-9-76	Resource Person
	( v ) Workshop on A Study of the growth and Development of Teaching of History in Schools since Independence, -organised by NCERT at Simla, 14-10-76 to 20-10-76	Resource Person
	( vi ) All India Seminar for Teachers and Principals organised by All India Association of Catholic Schools, 25-10-76 to 30-10-76	Resource Person
	( vii ) Orientation Course on Social Reconstruction for the Teachers of Baroda City and District organised by Department of Education, Guja-	Resource Person

Name of the Teacher	Programme, Place and Dates	Capacity in which participated
	rat, 29-11-1976 to 2-12-1976, 20-12-1976 to 23-12-1976	
( 8 ) Dr. S. Roy	( i ) All India Seminar on Microteaching, Baroda September, 1976	Resource Person
	( ii ) Inservice Education Programme in Methodology of Teaching for fresh and newly appointed teachers of the M. S. University, CASE, Baroda July-Oct. 1976	Resource Person
( 9 ) Dr. ( Smt. ) Piloo Buch	All India Seminar on Micro-teaching Interaction Analysis and Simulation, Baroda, Sept.. 1976	Resource Person
( 10 ) Dr. ( Mrs. ) N. A. Shelat	( i ) Workshop on Teaching of Sanskrit ( VIII, IX, X)	Organiser
	( ii ) Workshop on Teaching of Social Reconstruction ( X ) Extension Department, Baroda, 24th May to 29th May, 1976	Resource Person
	( iii ) Seminar in teaching of Social Studies ( VIII, IX, X ) Devgad Baria Panchmahals, 27th to 30th Sept., 1976	Resource Person
	( iv ) 29th Oct. 1976, Baroda District Seminar on Teaching of Social Reconstruction by E.E.O. Office	Resource Person



<i>Name of the Teacher</i>	<i>Programme, Place and Dates</i>	<i>Capacity in which participated</i>
	(v) Orientation Course for training Primary Teachers in teaching of English, 15th November to December 1976	Organizer
	(vi) Orientation course in teaching of English for Primary Training College Teachers, 6th to 11th December 1976	Organizer
	(vii) Orientation course in teaching of Social Reconstruction, 20th to 23rd December 1976	Resource person
	(viii) 2nd English Course, 1st Jan, to 14th Feb 1977	Organizer
	(ix) Seminar on Population Education, Rotary Club 23rd January 1977	Participant
(11) Shri R. C. Sharma	Seminar on Management of Change in Institutions, Indian Institute of Management, Ahmedabad	Participant
(12) Shri B. R. Panchal	(i) National Seminar on Microteaching, Interaction Analysis and Simulation held at Baroda from 23-8-1976 to 1-9-1976	Participant
	(ii) National Workshop for the Development of Inservice Courses in Science in the light of 10 + 2 curriculum, for the Secondary Teacher Educators organised at the N.I.E. Campus,	Participant

<i>Name of the Teacher</i>	<i>Programme, Place and Dates</i>	<i>Capacity in which participated</i>
	N.C.E.R.T., New Delhi -16 from 13th to 17th September, 1976	
(13) Dr. (Miss) T. P. Lulla	(i) Extension Department In-service Programme, Santrampur	Resource person
	(ii) Workshop, Science Teacher Programme NCERT, Delhi, September, 1976	Participant
(14) Dr. (Smt.) S. J. Mehta	(i) Training of Baroda Municipal School Teachers (English)	Resource person
	(ii) Repeater course of the above (English)	Resource person
	(iii) Gujarat State Teachers' Training Programme for Higher Secondary Teachers (English)	Resource person
	(iv) Training Programme for Class VI Teachers (English)	Resource person
(15) Prof. A. S. Patel	(i) International Congress of Cross-Cultural Psychology at Tilburg, Netherlands from 12 to 16 July, 1976	Chairman
	(ii) International Congress of Psychology at Paris from 18 to 25th July, 1976	Chairman
	(iii) Board of Studies and Evaluation at the Faculty of Education, University of Nairobi, East Africa from 4-10-1976 to 15-10-1976	Participant



<i>Name of the Teacher</i>	<i>Programme, Place and Dates</i>	<i>Capacity in which participated</i>
	(iv) Conference of Indian Academy of Applied Psychology at Kharagpur from 27-12-1976 to 29-12-1976	Participant
	(v) Indian Science Congress at Bhubaneshwar from 1-1-1977 to 10-1-1977	President of Section of Psychology
(16) Dr. N. S. Pathak	(i) Interview, Alkapuri Jaycees and Baroda Citizen Council, Baroda on 8-7-1976	An Expert: Talk on "Selection Tests"
	(ii) Personality Development Baroda Citizen Council and Vikas jyot on 23-9-1976	An Expert: Talk on "Scientific Attitude in life"
(17) Dr. (Miss) Manjuli Gon	(i) Visited U.S.A. as a Senior Fulbright—Hays Scholar for Advanced Research in Psychology at the Department of Psychology, Clark University, Worcester, Massachusetts, U.S.A., January-November, 1976. Research: "A Study in Social Emotional Relation", Post-doctoral Research under Dr. Tamara Dembo, Professor—Emeritus, Department of Psychology, Clark University, Worcester, Mass., U.S.A.	
	(ii) New England Social Psychological Association Annual Convention,	

<i>Name of the Teacher</i>	<i>Programme, Place and Dates</i>	<i>Capacity in which participated</i>
	Boston, Mass., U. S. A. March 27, 1976	
	(iii) Symposium on "Combating Stress : Biofeedback, Meditation and Self-regulatory therapeutics" sponsored by Mental Health Continuing Education, April 1976, Consortium, Boston, Massachusetts, April 1976, Received Council of Medical Education Credit.	
	(iv) Heinz Werner Lecture Series, Heinz Werner Institute for Advanced Study in Human Development, Clark University, Worcester, Mass., April 12-13, 1976	
	(v) Participated in a Workshop on "The Place of Correlation in Experimental Methods in Study of Development, Clark University, April, 1976	
	(vi) Bicentennial Conference on the Roots of American Psychology, Historical Influences and Implications for the Future, sponsored by the New York Academy of Science, New York, April 28-30, 1976	
	(vii) Participated in Eastern Regional Conference for Visiting Fulbright	



Name of the Teacher	Programme, Place and Dates	Capacity in which participated
	Scholars, Spoke on Goal of Higher Education in Interdependent World, sponsored by the Council of International Exchange of Scholars, State University of New York, Albany, N.Y., May 31-June, 1976	
(viii)	Participated and worked as a recorder in a Workshop on "Continuing Education to enhance understanding of other Cultures & World Problems, State University, New York, Albany, June, 1976	
(ix)	Attended American Psychological Association Meeting, Washington D.C., September 3-7, 1976	
(x)	Professional Visit to the National Institute of Mental Health, Bethesda, M.D., U.S.A. September, October, 1976	
(xi)	Visited some of the leading Centres of Clinical Psychology in Massachusetts, U.S.A.	
(xii)	Delivered lectures at Clark University on:	
	(a) A Comparative Study of Marxism and Indian Theories	

Name of the Teacher	Programme, Place and Dates	Capacity in which participated
	of Personality.	
	(b) Indian Theories of Human Emotions	
(18) Shri J. B. Patel	(i) Personality Development Vikas Jyot and Baroda Citizen Council, Baroda on 21-9-1976	An Expert: Talk on "Positive Thinking"
	(ii) Leadership Camp, Baroda Citizen Council, Baroda, on 25-11-1976	Talk on "Achievement Motivation"

### 5. Centre of Advanced Study in Education

The Centre has taken up research in the following areas:

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

#### (1) Collaboration of the Centre with other Institutions:

The Centre has collaborated with and extended co-operation to various organizations in carrying out programmes of academic and professional importance, such as: NCERT, U.G.C., University of Lancaster, U.K., Indian Association of Programmed Learning, National Institute of Bank Management, All India National Association of Catholic Schools (AINACS), Baroda Municipal Corporation and Gujarat Agricultural University, etc.

#### (2) Seminars:

The Centre organised the following seminars at national level during the year:

- (i) A national seminar on "Microteaching Simulation and Interaction Analysis" organised by CASE and NCERT at Baroda from the 23rd August to 1st September, 1976.
- (ii) Another Seminar on Microteaching was organised from 24th January, to 26th January, 1977 at CASE, Baroda.



(3) *Activities of the Unit on Higher Education:*

Seminars on Higher Education from 2nd to 5th June, 1976 were organised. Dr. Robert M. Diamond, Assistant Vice-Chancellor, Syracuse University, New York initiated discussions on:

- (a) Instructional Material in Higher Education,
- (b) Trends in Higher Education in the U.S.A.

In the year 1976-77, two seminars on Methodology of Teaching for Fresh and Newly Appointed Lecturers of M. S. University were organized. The first seminar was held from 15th July to 18th November, 1976, and the second seminar was held from 27th January to 31st March, 1977. In all 66 University teachers attended the seminars.

(4) *Visitors:*

- (i) Miss McConnel,  
Specialist in Mental Retarded Children,  
Australia
- (ii) Mr. Len Watson,  
Centre for Management Studies,  
Sheffield Polytechnic, U.K.
- (iii) Prof. Elizabeth Perrott,  
Director, International Microteaching Research Unit,  
University of Lancaster, U.K.
- (iv) Dr. Alice Dickinson,  
Professor of Mathematics, Smith College,  
Northampton, U.S.A.
- (v) Dr. R. M. Diamond,  
Assistant Vice-Chancellor and Professor of Higher Education  
Instructional Technology,  
and Syracuse University, U.S.A.

6. *CASE Library*

	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	80
(2) Average number of teachers making use of Library and/or the Reading Room daily	30
(3) Total Number of books issued to students during the year	10,000
(4) Total number of books issued to teachers during the year	10,000

*Particulars**Number*

(1) Books (including back numbers of Journals as on 1-4-1976)	10,560
(2) Books written off during the year	18
(3) Books added during the year	326
(4) Books as on 31-3-1977	10,868
(5) Journals subscribed during the year	32

7. *Department of Extension Services*

During the year the Department concentrated on the preparation of instructional material for the teaching of new subject—Social Reconstruction, preparing teachers for + 2 Stage and conducting the Orientation Courses for subject in Class VI and VII.

(1) *Summer School of Education:*

A Summer Workshop on Social Reconstruction and Sanskrit organised from 24-5-1976 to 28-5-1976 wherein 131 teachers from Panchmahals, Baroda, Surat and Bulsar Districts participated. A cyclostyled report of Instructional Material in Social Reconstruction is prepared.

(2) *Seminars, Workshops and Conferences*

Sr. No.	Subject	Date	Place	No. of Participants
(i)	Orientation Course on Social Reconstruction ( Assistance )	27-9-76 to 30-9-76	S. R. High School, Devgadhi Baria	70
(ii)	First Orientation Course for Primary Teachers ( 6 weeks duration ) under the joint auspices of State Institute of Education ( Baroda District )	15-11-76 ( 6 weeks )	Faculty of Education and Psychology, Baroda	60
(iii)	An Orientation Course on Teaching of English for Lecturers of Primary Teachers Training College in collaboration with State Board of Teacher Education, Gujarat State, Ahmedabad	6-12-76 to 11-12-76	Faculty of Education and Psychology, Baroda	64
(iv)	Second Training Course on Teaching of English for Pri-	1-1-77 ( 6 weeks )	Faculty of Education and Psychology, Baroda	50



Sr. No.	Subject	Date	Place	No. of Participants
	mary School Teachers of Baroda District in Collaboration with State Institute of Education, Gujarat State			
(v)	Third Orientation Course on Teaching of English for Primary School Teachers of Baroda District in Collaboration with State Institute of Education Gujarat State	15-2-77	Faculty of Education and Psychology, Baroda	60
(vi)	On day Seminar on Current Trends in Secondary (Schools) Mathematics in Britan, under the guidance of Mr. G. S. Smith from British Council	28-3-77	Faculty of Education and Psychology, Baroda	40
(3)	<b>Publications:</b>			
	(i) Seminars on New Pattern of Education (10 + 2 + 3), November, 1976.			
	(ii) Report of the Workshop on Instructional Material for Social Reconstruction, March, 1977.			

#### 8. Department of Psychology

Following topics were discussed in the post-graduate seminars in the year 1976-77 :

- (i) Confirmity to foreign norms, (ii) A Study in Social Emotional Relations, (iii) War Neurosis, (iv) Personal Space, (v) Life after Death, (vi) Concept of Creativity and Measurement, (vii) Enzyme System in Human Metabolism, (viii) Endocrine System and (ix) Management in U.S.S.R.

## CHAPTER X (B)—UNIVERSITY EXPERIMENTAL SCHOOL

### 1. Courses of Study

The school follows the syllabus and the courses prescribed by the Department of Education, Government of Gujarat and the Secondary Education Board of the Gujarat State.

Higher Secondary Classes are opened from July, 1976 (1) XI Arts and (2) XI Science. The syllabus and the courses prescribed by the Higher Secondary Education, Department of Education, Government of Gujarat are followed.

### 2. Number of Students

	Boys	Girls	Total
(1) Primary I to VII	182	130	312
(2) Secondary VIII to X	93	59	152
(3) Higher Secondary XI Science	44	17	61
Higher Secondary XI Arts	16	23	39
Total	235	229	564

### 3. Staff

	Post-graduate Trained Teacher	Graduate Trained Teacher	Others	Total
(1) Primary Section	1	1	4	6
(2) Secondary Section	6	2	—	8
(3) Special Teacher	1	2	2	5
(4) Office Staff: 1 Senior Clerk, 2 Junior Clerks and 1 Laboratory Assistant.				
(5) Class IV Employees: 3 for Secondary Section and 4 for Primary Section.				

### 4. Professional Growth of the Staff

#### (a) Participation in various Programmes:

- (1) Principal, Dr. Mahendra Chokshi was the Chief Guest at the Social gathering of Arts College, Dholka on 13-1-1977. He presided the Social gathering of Chitral High School, Chitral on 7-2-1977.
- (2) Shri M. M. Amin attended and participated in the following seminars and workshops:

- (i) Seminar on syllabus of Science for Std. VIII to X sponsored by Gujarat Secondary Text-Book Board at Baroda in May, 1976.



- (ii) Workshop at Shardagram for Class VI Science Teachers Hand-book in October, 1976.
- (iii) Worked as a resource person in Biology and Chemistry at Orient Classes for Teachers of Stds. VIII to X (Baroda and Panchmahals) in September-October, 1976 and in Chemistry and Biology at Higher Secondary Classes, Dabhoi in October, 1976.
- (3) Shri Shankerbhai Patel worked as a guide in the subject 'Social Reconstruction' in the training class of the teachers of the Baroda City and the Baroda District in November and December, 1976. He gave a talk in the Seminar for Social Reconstruction for two days at Devgad Baria.
- (4) Smt. S. J. Chauhan attended the seminar on setting model question paper of the S.S.C. in English at Vallabhvidyanagar on 3rd and 4th February, 1977.

### 5. Experiments and Activities

Class	Project	Subject
IX	Australia, Africa and Russia	Social Studies
IX	Active and Passive Voice	English Grammar
IX	Forms of Literature	Gujarati
V and VII	Neighbour countries of India	Social Studies
VI	The Saints of India	Social Studies
VI	Various Crops of India	Social Studies
VI	Election	Social Studies

### 6. Result of Examinations

- (1) The result of the old S.S.C. Examination of March, 1976 was 93%.
- (i) Chi. Shyam Varma stood third in English securing 82 marks.
- (ii) Chi. Ruchita Patel stood first in Physiology and Hygiene securing 98 marks.
- (iii) Chi. Gautam Ruparel stood first in the school securing 82% of marks.
- (2) The result of the New S.S.C. Examination of April, 1976 was 92%.
- (i) Chi. Sonal Pandya stood first in the School securing 79% marks. She obtained 100 marks in Commercial Arithmetic.
- (ii) Chi. Manisha Pathak and Chi. Geeta Padte got special Merit in Music and won a prize of Rs. 50/.
- (3) The pupils of the school appeared at the following external examinations:

Examination	Result in Percentage
(i) Elementary Drawing	69%
(ii) Intermediate Drawing	77.7%
(iii) Shishta Vachan	100%
(iv) Hindi Examinations held by Gujarat Vidyapath	
(a) Balpothi	86.0%
(b) Paheli	62.8%
(c) Dusari	50.0%
(d) Tisari	85.0%
(v) General Knowledge Test	85.0%

### 7. Awards and Prizes

#### (1) Awards in Sports:

Name	Prize	Competition
(i) Chi. Bharat Jhaveri	Fourth Prize	Swimming Competition at State Level.
(ii) Chi. Nikhil R. Shah	National Merit Sports Scholarship	The National Institute of Sports, Patiala.

#### (2) Awards in Debate:

- (i) Chi. Mayur Jhaveri won the Second Prize in the Elocution Competition held by the Gujarat Vidyapith on the occasion of Gandhi Jayanti.
- (ii) Chi. Himanshu Shah, Amit Bhatt and Rajiv Shah won the Third Prize in the Quiz Competition held by the University Youth Organisation for Social Science.
- (iii) Chi. Rajiv S. Shah won the Third Prize and Chi. Amit Bhatt won the Second Prize in the Elocution Competition held by the Blood Donation Society, Baroda.
- (iv) Chi. Rajiv S. Shah won Second Prize in the Elocution Competition held by Inter-School Science Association sponsored by the Faculty of Science, M. S. University of Baroda.

#### (3) Award in Fine Arts

- (i) The School Children won 37 Prizes in the Extempore Drawing Competition held by Lalitkala Academy and Municipal Corporation.



- (ii) Chi. Hitesh K. Rana got the Soviet Land Merit Certificate. He won a prize in the International Child Art Competition held by IE-No-Hikari, Japan.

### 8. Visitors

<i>Name</i>	<i>Subject of the Talk</i>
(1) Shri Gani Dahiwala	Poems and Ghazals.
(2) Shri Sheikh Adam Abuwala	Poems and Ghazals.
(3) Shri Pransukh Naik	Drama
(4) Shri Jyotindra Dave	Humour in Literature.

### 9. Other Events

- (1) A team of sixty pupils and four teachers of the school visited the Vinaya Mandir School, Kashipura on 18th and 19th February, 1977 and carried out a survey of agriculture, health, education and irrigation.
- (2) A gathering of Ex-teachers of the school was held on the occasion of the completion of the Silver Jubilee Celebration of the school. Ex-Principals, Dr. M. S. Patel, Shri Dalal, Shri A. J. Desai and Shri H. C. Pathak presented their recollections of the school and showed their satisfaction for the development of the school in twenty five years.

## CHAPTER XI—FACULTY OF COMMERCE

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

The Class-wise distribution of students during the year 1976-77 is as under:

<i>Class</i>	<i>Men Students</i>	<i>Women Students</i>	<i>Total</i>
(1) Under-graduate Diploma in Co-operation	15	3	18
Total	15	3	18
(2) F.Y.B.Com.	493	333	826
(3) S.Y.B.Com.	578	157	735
(4) T.Y.B.Com.	801	291	1092
Total	1872	781	2653
(5) Post-graduate Diploma in Banking	21	17	38
(6) Post-graduate Diploma in Co-operation	7	5	12
Total	28	22	50
(7) M.Com.—Part I	126	21	147
(8) M.Com.—Part II	207	26	233
Total	333	47	380
(9) Ph.D.	6	1	7
Grand Total	2254	854	3108

### 3. Staff

The staff of the Faculty consisted of 3 Professors, 9 Readers, 22 Lecturers, 6 Teaching Assistants, 3 Part-time Lecturers, 9 Class III and 21 Class IV employees as on 31st March, 1977. The Departments of Law and Mathematics made arrangements for teaching of the subjects of Mercantile Law and Mathematics. Some members of the staff of this Faculty had teaching assignments in the Faculty of Technology and Engineering, Faculty of Law and the Polytechnic.



## 4. Professional Growth of the Staff

## (a) Publication of Articles:

Name of the staff member	Title	Name of the Journal wherein published with month of publication
(1) Dr. D. S. Pathak	(i) A Model of Monetary Equilibrium for India 1951-67 : an Econometric Study	'ANVESAK' Journal of S. P. I. of Economics and Social Research Vol. VI No. 2 December, 1976
	(ii) The working of the Monetary System in India (Summary of Ph.D. Thesis published)	Journal of M. S. University of Baroda Vol. XXIII (1974) and No. 2 Vol. XXIV (1975) combined issue published in December, 1976
(2) Dr. J. K. Shah	(i) Reconciliation of Income and Price stability through Price Control : The case of sugar price control	'Vishleshan'—the quarterly Journal of Research and Reading in Economics, Department of Economics, Guj. Uni., Ahmedabad Vol. 11, No. 1 March, 1976 in April, 1976
	(ii) Incidence of under-employment and un-employment—An Analysis with reference to Gujarat State (a paper jointly written with Dr. S. Srikantiah)	'Artha-Vikas'—a biannual Journal of Economic Development, Dept. of Economics, Sardar Patel University Vallabh Vidyanagar Vol. XII No. 1 January-June, 1976
	(iii) Electricity and Employment in Industry: Gujarat—A case for Rural Electrification	'Vishleshan' Vol. II No. 4 December, 1976
	(iv) Growth and Behaviour of Capital in Organised Sector of Industry Gujarat	Journal of the M. S. University of Baroda, Baroda Vol. XXII No. 2 1974 published in January, 1977

Name of the staff member	Title	Name of the Journal wherein published with month of publication
(3) Shri D.R. Shah	Long term Movement of Rural Wage rate in Gujarat	Journal of the M. S. University Vol. XXIII (1974) No. 2 Vol. XXIV (1976) No. 2 Combined issue
(4) Shri Dhawal Mehta	(i) Human Relations in Management— A Critical Evaluation (ii) The Relevant Utopia (iii) Who is right—the New Managers or Old (iii) 'Has University Education any role to play'?—A discussion	M. S. University Journal Vol. 23 and 24 Combined issue March, 1977 The Radical Humanist, September, 1976 The Management Review, October, 1976 The Radical Humanist, December, 1976
(5) Smt. B. H. Elavia	Factors influencing tractor loans in Gujarat	Land Bank Journal, December, 1976
	(b) Talks given at different Universities :	
Professor H. P. Chokshi	(i) Gujarat University (ii) South Gujarat University	Relevance of Gandhian Economic Thought Gandhiji's Solution of India's Economic Problems

(c) Dr. J. K. Shah was invited by the Sardar Patel Institute of Economics and Social Research, Ahmedabad as an expert to comment on their project 'Gujarat 2001 A.D.' especially on the Chapter on 'Energy'.

(d) Dr. K. R. Shah was invited to assist the Committee on College Finances (Paul Committee) appointed by the Government of Gujarat.

(e) Dr. J. K. Shah assisted Dr. Srikantiah and Dr. K. R. Shah in their project "University Finance—A Study of the M. S. University of Baroda".



## CHAPTER XII—FACULTY OF MEDICINE

### (A) MEDICAL COLLEGE

#### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

#### 2. Number of Students

(1) Degree :	Men	Women	Total
M.B.B.S.			
1st year	119	21	140
2nd year	129	31	160
3rd year	114	30	144
4th year	146	19	165
5th year	119	16	135
<b>Total</b>	<b>627</b>	<b>117</b>	<b>744</b>

(2) Post-graduate Diplomas :	Men	Women	Total
D.A.			
D.C.P.			
D.G.O.			
D.L.and O.			
D.M.R.D.			
D.O.			
D.C.H.			
T.D.D.			
D.V.D.			
<b>Total</b>	<b>37</b>	<b>12</b>	<b>49</b>

(3) Post-graduate Degrees:	Men	Women	Total
M.D.	32	15	47
M.S.	25	3	28
M.Sc.	6	4	10
Ph.D.	—	2	2
<b>Total</b>	<b>63</b>	<b>24</b>	<b>87</b>
<b>Grand Total</b>	<b>727</b>	<b>153</b>	<b>880</b>

#### 3. Staff

##### (a) Present Position:

The staff of the College consisted of a Dean, 29 Professors, 27 Assistant Professors, 32 Tutors, 14 Other Gazetted Staff, 11 Honorary Professors, 6 Honorary Assistant Professors, 3 Part-time Assistant Professors, 2 Part-time Junior Lecturers, 2 Full-time Surgeons/Physicians, 103 Class III and 95 Class IV employees.

#### (b) New Appointments:

(1) Shri P. P. Rao	}	Tutors in Anatomy
(2) Dr. B. Raghuvir		
(3) Smt. A. A. Mehta	}	Tutors in Physiology
(4) Shri S. Sashidhar		
(5) Kum. S. G. Golani	}	Tutors in Pharmacology
(6) Shri A. P. Rajani		
(7) Shri J. D. Bhatt	}	Assistant Professor of Pathology
(8) Dr. G. K. Nagar		
(9) Mr. J. B. Ghoda	}	Tutors in Pathology
(10) Dr. J. C. Shah		
(11) Dr. V. C. Patel	}	Professor of Ophthalmology
(12) Dr. R. N. Mathur		

#### (c) Teachers upgraded to Higher Positions:

(1) Dr. (Smt.) S. K. Amin	Assistant Professor of Medicine
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#### (d) Teachers who left:

(1) Dr. (Smt.) S. M. Mazumdar	}	Tutors in Anatomy
(2) Dr. J. N. Mankani		
(3) Dr. B. N. Mazumdar	}	Professor of Physiology (Transfer)
(4) Dr. V. R. Patel		
(5) Dr. (Kum.) C. M. Kamdar	}	Tutor in Physiology
(6) Dr. N. V. Ambani		
(7) Dr. K. J. Pandya	}	Tutor in Pharmacology
(8) Dr. (Smt.) K. O. Shah		
(9) Dr. M. L. Pai	}	Tutors in Pathology
(10) Dr. (Smt.) P. S. Patel		
(11) Dr. U. H. Vyas	}	Assistant Professor of Obstetrics and Gynaecology
	}	Professor of Bio-chemistry (Retired)
	}	Tutor in Anaesthesia
	}	Assistant Professor in Plastic Surgery.

#### 4. Shri Sayaji General Hospital

The Hospital is a teaching institution attached to the Medical College for imparting Clinical instruction to Under-graduate and Post-graduate students.

It has 6 Medical and Surgical, 3 Obstetrics and Gynaecology, 2 Paediatrics, One Dental, One E.N.T., 3 Orthopaedics, One Anesthesia and One Psychiatric Unit. The students are posted under these Units for their Clinic training. The total bed strength is 924. Average daily in-patient attendance and O.P.D. attendance for the year 1976-77 was 1189.56 and 1617.35 respectively.

#### 5. Professional Growth of the Staff

##### (a) Publication of Articles:

Sr. No.	Name	Article	Name of the Journal
(1)	Dr. H. S. Sri-vastava	(i) Development of acinar in the rat submandibular gland	Journal of Anatomy (U.K.) Vol. 123, Part 2, 1977



Sr. No.	Name	Article	Name of the Journal
		( ii ) Prenatal Development of the Buffalo ( <i>Babalus bubalis</i> ) Stomach—III—Early Histogenesis	Indian Journal of Animal Science, Vol. 47, No. 3, 1977
( 2 )	Dr. B. N. Mazumdar, Dr. C. A. Desai and Shri N. C. Shah	A comparative study of a few tests of dynamic lung function	Indian Journal of Physiology and Pharmacology, March, 1976. The paper is considered as the best for the award of Hari Om Ashram Smarak Trust Preit Bhaikaka Inter University Best Paper in Medical Science in April, 1977
( 3 )	Dr. D. S. Shah and Dr. D. C. Pandya	A preliminary study about the anti-inflammatory activity of <i>Tinospora Cordifolius</i>	Journal Research Indian Medical Yoga and Homoco., II : 4, 1976
( 4 )	Dr. O. D. Gulati, Dr. N. S. Shah and Dr. D. B. Whitesides	Uptake of 3, 4 dimethoxyphenylethy-lamine ( 14 C—DMPEA ) by rat tissues <i>in Vitro</i>	Biol. Psychirat, 11, 75-84, 1976
( 5 )	Dr. V. R. Dhumal, Dr. O. D. Guiati and Dr. N. S. Shah	Effects on rectal temperature rats of jamma amino butyric acid—possible mediation through putative transmitters	Eur. J. Pharmac, 35, 341-347, 1976
( 6 )	Dr. O. D. Gulati and Dr. N. S. Shah	Amino releasing action of nicoline from rat hypothalamus <i>in vitro</i>	Res. Com. Chem. Path. Pharmac., 16, 565-568, 1976
( 7 )	Dr. J. V. Anajaria, Dr. K. Janakiraman and Dr. O. D. Gulati	Studies on leptademis reticulaic: Effects of some reproductive and growth parameters in rats	GAU Res. J. 2, 129-130, 1977

Sr. No.	Name	Article	Name of the Journal
( 8 )	Dr. V. P. Vaishnav, Dr. P. M. Trivedi, Dr. ( Mrs. ) V. Handa and Dr. A. K. Thakkar	Interstitial Cell Tumour of Testis ( Layding Cell Tumour)	Indian Journal Cancer, 13, 280-282, 1976
( 9 )	Dr. David Edelman, Dr. William Brenner, Dr. Ajit Mehta, Dr. F. S. Philips and Dr. Rohit Bhatt	A comparative study of intra amniotic saline and two prostaglandin F <sub>2</sub> dose schedules for mid trimester abortion	Am. J. Obst. Gyn. 125: 188, May, 1976
( 10 )	Dr. Rohit Bhatt	( i ) Performance of Female Medical graduates from Baroda ( ii ) Migration of Baroda Medical Graduates ( iii ) Transbaccal use of Desamino Oxytocin in induction of labour and augmentation of labour ( iv ) Electrolytes in blood, urine and liquor after intra amniotic instillation of 20% saline	British J. M. Education, 10 : 290 September, 1976 British J. Med. Education, 10 : 293 September, 1976 J. Obst. Gyn. Ind. 26 : 812 December, 1976 J. Obst. Gyn. Ind. 27 : 50 : February, 1977
( 11 )	Dr. ( Mrs. ) Nirmala B. Swami	Bilateral Ruptured Tubal Pregnancy	Jour. of Obst. Gyn. of Ind. Vol. XXVII, 2 p. 234-35. April, 1977
( 12 )	Dr. D. S. Shah & Dr. Rohit Bhatt	Dystocia due to Sacral tumour of the foetus	Mediscope—Vol. XVII, No. V—208-210, August, 1976
( 13 )	Dr. S. Srinivasan	Effect of a Quinazolinone Derivative on the metabolism of <i>Streptococcus Faecalis</i> -R( ATTC—8043 )	Indian Journal of Physiology and Pharmacology



## (b) Papers presented at Conferences :

Sr. No.	Name	Conference	Title of the Paper
(1)	Dr. H. S. Srivastava	Silver Jubilee Conference of Anatomical Society of India at Lucknow in December, 1976	Mistogenesis of the rumen of the Buffalo (Babalus bubalis) Stomach
(2)	Dr. B. N. Mazmudar and Shri N. C. Shah	A.P.P.I. XXII Annual Conference at Agra in December, 1976 (attended by Dr. J. P. Saxena)	Study of the elastic properties of the lungs in subjects of Bysisinosis
(3)	Dr. P. D. Patel, Dr. D. S. Shah, Dr. S. R. Patel and Dr. O. D. Gulati	XXII All India Conference of A.P.P.I. at Agra from 27th to 29th December, 1976	Some pharmacological and biochemical studies with lithium on rat isolated seminar verticle
(4)	Dr. C. P. Shah	Seminar on 'P. G. Course in General and Family Practice' at Banaras in March, 1977	(i) Medical Curriculum for a P. G. Course in General and Family Practice (ii) Diagnostic Skills training for General Family Practice (iii) Diagnosis of Jaundice
(5)	Dr. Rohit Bhatt	(i) First Asian Inter-Congress at Singapore, April, 1976 (ii) 7th Conference of International Family Planning Research Association at Los Angeles, U.S.A., October, 1976 (iii) 8th World Congress of Obstetrics and Gynaecology at Mexico, October, 1976	Experience with prostaglandin analogues in induced abortion Psycho-social problems of teenage pregnancy in unmarried girls Our experience with Camp approach to female sterilizations—2009 cases

Sr. No.	Name	Conference	Title of the Paper
(iv)	2nd International Seminar on Maternity Mortality and Family Planning at Bombay, February, 1977		Our experience with tubal anastomosis in cases of previous tube ligation
(v)	18th All India Congress of Obstetrics and Gynaecology at Gauhati, January, 1977		(a) Our experience with next iron dextran Complex I. V. in anaemias (b) Management of failures of induced abortions
(6)	Dr. (Mrs.) Nirmala B. Swami	8th World Congress of Obstetrics and Gynaecology at Mexico, 17th to 23rd October, 1976	Sterilizations operation in the female-clinical study of 8449 cases
(7)	Dr. D. S. Shah	(i) IVth Conference of I.F.R.P. at Bombay, February, 1977 (ii) 18th All India Congress of Obstetrics and Gynaecology at Gauhati, January 1977	Study of Trans Cervical Instillation of Quinacrine before hystrectomy to Test Tubal Blockage Our experience with heat iron dextran complex I.V. in anameas
(8)	Dr. M. N. Hazra	All India Congress of Obstetrics and Gynaecology at Gauhati, January, 1977	Thromboembolic Disorders in Obstetrics
(9)	Dr. R. C. Tahmane, Dr. Y. C. Surati and Dr. U. J. Modi	2nd Annual Conference of Gujarat Branch of Indian Academy of Pediatrics at the Medical College, Baroda, January, 1977	Ecology of malnutrition at Chhotaudepur
(10)	Dr. P. S. Bhatt and Dr. A. R. Shah	2nd Annual Conference of Gujarat Branch of Indian Academy of Pediatrics at the Medical College, Baroda,	Poisoning in Children



Sr. No.	Name	Conference	Title of the Paper
(11)	Dr. (Mrs.) A. A. Mehta and Dr. P. T. Acharya	Association of Clinical Bio-chemists of India at Baroda, from 7th to 9th January, 1977	The study of protein and amino acid metabolism in hypoproteinemic states commonly occurring in children
(12)	Dr. A. B. Khosrana	(i) A.M.A.P.I., Baroda, 6th November, 1976 (ii) A talk at the S.P. University on 5th February 1977	Non-pharmacological factors in the evaluation of Drugs Drug Addictions
(13)	Dr. S. R. Trivedi	(i) Conference of Indian Orthopaedic Association at Calcutta, July, 1976 (ii) Annual Conference of Surgeons of India and Indian Orthopaedics Association at New Delhi, December, 1976	Evaluation of a off fracture Attended
(14)	Dr. K. M. Shah	(i) All India Surgeons Conference, 1976 (ii) All India Bio-chemistry Conference, 1976	Attended Attended
(c) Participation in Inservice Programme:			

Sr. No.	Name	Programme	Capacity in which participated
(1)	Dr. J. P. Saxena	Executive Committee of A.P.P.I. at Agra on 27th December, 1977	Executive Member
(2)	Dr. O. D. Gulati	William S. Hall Psychiatric Institute, Columbia, S. C., U.S.A.	Completed assignment as Teaching Research Scientist at William S. Hall Psychiatric Institute at Columbia, S. C., U.S.A. from February, 1974 to June, 1976 and resumed duties at the Medical College, Baroda on 18-6-1976

Sr. No.	Name	Programme	Capacity in which participated
(3)	Dr. Rohit Bhatt, Dr. D. S. Shah, Dr. N. P. Mehta and Dr. R. B. Shah	Mobile Surgical Camp at Dohad	As Surgeons
(d) Research Work:			

Sr. No.	Name	Subject of Research
(1)	Dr. J. P. Saxena	Effect of distension of urinary bladder and respiration
(2)	Dr. (Smt.) S. Chandwani	Normal Reflex time—Ankle Jerk
(3)	Shri N. C. Shah	The study of bysionosis—its prevalence and variation of lung functions in relation to various grades by bysionosis
(4)	Shri N. C. Shah, Dr. B. N. Mazumdar, Dr. C. A. Desai and Dr. J. P. Saxena	The prevalence of respiratory symptoms in relation to the smoking habits of textile workers and exposure to the Cotton and Wool dust in textile
(5)	Dr. C. N. Shukla and Dr. (Miss) J. P. Mehta	Incidence and Pathogenesis of Peripheral Vascular diseases in relation to chronic duodenal ulcer
(6)	Dr. N. D. Swadia and Dr. J. S. Zala	Crystallographic Analysis of Urinary Calculi
(7)	Dr. K. M. Shah	Problems of past operative adhesions in abdomen by use of periton—M done about 15 cases

## (e) National Assignment:

(1)	Dr. C. P. Munshi	(i) Co-Chairman for short papers on atherosclerosis at World Congress on Vascular Diseases in March-April, 1976 (ii) Member, Gujarat Medical Council (iii) Member on Editorial Board, Gujarat Medical Bulletin, Medicine and Surgery (iv) Member of Citizen Council, Baroda (v) Chairman, Scientific Committee, Gujarat State Branch (I.M.A.)
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## (f) Awards:

Dr. K. M. Shah, Assistant Professor of Surgery became Fellow of the International Academy of PROCTOLOGY, F.I.A.P. (U.S.A.) in December, 1976.

## 6. Library

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

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	375
(2) Average number of teachers making use of the Library and/or the Reading Room daily	80
(3) Total number of books issued to students during the year	50,000
(4) Total number of books issued to teachers during the year	4,500

The details regarding the stock and expenditure of the Library are as under:

	Number	Cost Rs.
(1) Books (including Back Nos. of Journals as on 1-4-1976)	18,751	—
(2) Books written off during the year	—	—
(3) Books added during the year (including Back Volumes)	571	—
(4) Books as on 31-3-1977	19,322	—
(5) Journals subscribed during the year	175	—
(6) Amount spent on binding during the year	432	3,471-00
(7) Total amount spent for Library and/or Reading Room during the year	—	52,000-00

## 7. Lectures

## (a) Under U.G.C. Scheme of Exchange of Professors:

(1) Dr. M. K. Man, Chief Nephrologist of Hospital, Bombay	25-9-1976	Transplantation to Manage- ment of Renal Failure
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(2) Dr. D. R. Nagpal, Bangalore	30-11-1976	Tuberculosis
(3) Dr. Jatin P. Shah, Professor of Canarology, Cancer Hospital, New York	21-12-1976	Cancer

## (b) Under Extra Mural Grant of the University:

(1) Dr. Rusi Soonawala, N-Wadi Maternity Hosital, Bombay	25-3-1976	Future of Contraceptives
(2) Dr. A. Jerrett, Director, Department of Dermatology, London	22-1-1977	New Trends in Dermatology

## 8. Important Events

The staff of the Medical College and the S.S.G. Hospital organised the following two Conferences at Baroda in January, 1977:

- (i) Second Annual Conference of Gujarat Branch of Indian Academy of Pediatrics
- (ii) Association of Clinical Bio-chemists of India



## CHAPTER XII (B)—SHETH UJAMSHI PITAMBARDAS AYURVEDIC RESEARCH UNIT

### 1. Function of the Unit

Research in Ayurveda is the sole object of the Unit. The Unit has a Library, a Museum of Indian Medicinal Herbs and Minerals, a Rasashala and an Out-patient Department. Twenty beds are available for Ayurvedic Clinical Research and inpatient treatment in the S.S.G. Hospital, Baroda.

### 2. Staff

The Staff of the Unit consisted of a Head, an Honorary Physician, a Research Officer, an Assistant Research Officer, 3 Class III and 4 Class IV employees.

Dr. O. D. Gulati who had been abroad as Visiting Scientist at William S. Hall, Psychiatric Research Unit, Columbia S. C., U.S.A. for two years, resumed as Honorary Head of the Unit.

### 3. Library

The total number of books is 2,531.

### 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. Section of Ayurvedic Pharmacological Medicines is also maintained. There are about 1,000 Ayurvedic specimens, 54 herbarium frames, 7 original Ayurveda photo frames, 75 specimens jars of fresh herbs preserved in solution and 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 of India is exhibited in the museum.

### 5. Work done in the Unit

#### (1) Rasashala :

- (a) "Amruta Ghana" (Aqueous extract of *Tinospora cordifolia*) is being prepared in the Rasashala from *Tinospora cordifolia*.
- (b) The following plants are being screened as bronchial sedatives :
  - (i) Bhumyamalaki (*Phyllanthus niruri*)
  - (ii) Amalaki (*Emblica Officinalis*)
  - (iii) Punarnava (*Boerhaavia diffusa*)
  - (vi) Karkata Shringi (*Pistacia integerrima*)

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

During the period from April, 1976 to March, 1977, 27,002 old cases and 2,210 new cases were registered in the O.P.D. of the Unit.

#### (3) Indoor Patient Department :

Twenty-one patients were admitted in the Ward of Dr. C. P. Shah for Clinical Research and 9 patients received treatment from the O.P.D. for rheumatoid arthritis.

### 6. Publications

Author's Name	Title	Journal
(1) Dr. D. S. Shah and Shri D. C. Pandya	A preliminary study about the anti-inflammatory activity of <i>Tinospora cordifolia</i>	Jour. Ind. Med. Res. Hoem. and Yoga 11, 4, 1976
(2) Shri D. C. Pandya	(i) Madhumeha (Diabetes mellitus)	Ayurved Vikas, 9, 19, September, 1976



## CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

### 1. Courses of Study

The Courses of Studies remained the same as in the previous year. A new three-year Post-B.Sc. degree course leading to B.Sc. (Tech.) was introduced from August, 1976.

### 2. Number of Students

	Men	Women	Total
(i) Diploma	259	2	261
(ii) Degree	2539	112	2651
(iii) Post-Graduate Diploma	6	—	6
(iv) Post-Graduate Degree	103	5	108
(v) Ph.D.	22	1	23
Grand Total	2929	120	3049

### 3. Staff

#### (a) Present Position :

During the year the staff of the Faculty consisted of 20 Professors (2 of whom are in the senior scale), 41 Readers, 135 Lecturers, 1 Junior Instructor, 12 Teaching Assistants, 2 Visiting Professors, 12 Visiting Lecturers, 167 Class III and 99 Class IV employees.

#### (b) New Appointments :

(1) Dr. K. K. Rao	Reader in Microbiology
(2) Dr. D. I. Panchal	Reader in Pharmacology
(3) Dr. Y. K. Agrawal	Reader in Analytical Chemistry
(4) Dr. S. K. Khanna	Reader in Pharmaceutical Technology
(5) Shri R. Balaraman	Lecturer in Pharmacology
(6) Kum. Rajani Pani	Lecturer in Pharmaceutical Chemistry
(7) Shri J. G. Trivedi	} Lecturers in Mechanical Engineering
(8) Shri H. V. Ghotikar	
(9) Shri V. P. Panchal	
(10) Kum. P. J. Pandit	Lecturer in Applied Mechanics
(11) Shri H. H. Sikdar	} Lecturers in Electrical Engineering
(12) Shri H. R. Vyas	

#### (c) Teachers Appointed to Higher Positions :

(1) Dr. M. R. Panchal	Professor of Electrical Engineering
(2) Prof P. M. Modi	} Professors of Civil Engineering
(3) Prof. G. B. Sompura	
(4) Prof. H. V. Bhavanani	

(5) Shri G. T. Joshi	Reader in Mechanical Engineering
(6) Shri Syed Moinuddin	} Readers in Chemical Engineering
(7) Shri Vasdev Singh	
(8) Shri A. N. Shah	} Readers in Civil Engineering
(9) Shri A. K. Savani	
(10) Shri R. D. Bhatt	
(11) Shri J. J. Prajapati	
(12) Shri J. K. Vyas	Reader in Applied Mechanics
(13) Shri A. M. Sirgaokar	} Readers in Architecture
(14) Shri S. V. Deshpande	
(15) Dr. D. S. Pathak	Reader in Business Economics at the Faculty of Commerce
(16) Shri R. V. Patel	Lecturer in Chemical Engineering
(17) Shri R. R. Vishwakarma	} Lecturers in Metallurgical Engineering
(18) Shri A. B. Lele	

#### (d) Teachers who left during the year :

(1) Prof. J. M. Shah	Professor of Mechanical Engineering	Retired
(2) Prof. K. K. Thakore	Professor of Electrical Engineering	Expired
(3) Shri S. L. Patel	Reader in Architecture	Resigned
(4) Shri N. S. Pingle	Lecturer in Architecture	Retired
(5) Shri U. P. Sinha	Lecturer in Metallurgical Engineering	Resigned to go to U.S.A.
(6) Shri R. K. Dube	Lecturer in Mechanical Engineering	} Resigned for better prospects
(7) Shri N. C. Patel	Lecturer in Civil Engineering	
(8) Shri P. V. Darji	Lecturer in Applied Mechanics	

### 4. Professional Growth of the Staff

#### (a) Publication of Articles/Papers in India and/or Foreign Journals of Merit :

Sr. No.	Name	Title	Where published
(1)	Piyush Parikh	Stability and safety of Ajwa Dam during floods	Symposium on Stability and safety of Ajwa Dam, Baroda Municipal Corporation, Institute of Engineers and Baroda Productivity Council
(2)	A. V. Shroff and R. H. Foster	Soil Microstructure of Kaolinitic clay using scanning electron Microscope (Technical note)	Research Report of Academic Visitors to City University, London, January, 1977



Sr. No.	Name	Title	Where published
(3)	R. D. Bhatt and G. B. Sompura	Pavement evaluation by serviceability rating technique	Navnirman, published by Guj. P.W.D., Vol. XVII, No. 1, Jan.-June 1976
(4)	R. D. Bhatt and A. K. Savani	Environment improvement of slum areas—An alternative to low cost housing	Journal of Association of Engineers, India-Calcutta, Vol. 52, No. 1, Jan.-March 1977
(5)	G. C. Kothari	High Speed Comparison for Protection Power Transformer	Proc. of CBIP (India), Vol. V, Power pp. 57-64, June, 1976
(6)	R. C. Desai and V. G. Joshi	Minimal Order Minimum Time Function Observer	Proceedings of the International Conference on Information Sciences & System Patrus, Greece, August, 19-24, 1976
(7)	R. C. Desai and G. L. Chawla	State Estimation for Discrete Systems with time delay using Invariance Imbedding—Part I	Journal of Inst. Engineers (India), Vol. 56, E-73, pp. 139-141, April 1976
(8)	R. C. Desai and J. R. Rao	—do—	—do—
(9)	S. B. Pandya	A New Criterion of Washability applied to M. P. Coals	Chemical Industry Developments Incor., C.P. and E., Vol. XI, No. 2, pp. 13-20, Feb. 1977
(10)	N. S. S. Murthy, V. N. Misra and V. Seshadri	Studies on fluid motion in heavy media separation	Institute of Engg. (Met.) Vol. 57, July, 1976, p. 26-29
(11)	V. K. Gupta and V. Seshadri	Co-ordination of $Al^{3+}$ in molten aluminosilicate in the light of Viscosity data for $CaO-SiO_2-Al_2O_3-CaF_2$ melts	Trans. of I.I.M., No. 2, April, 1976
(12)	R. K. Amin, V. N. Misra and V. Seshadri	Effect of various additives on the pelletisation characteristics of fluorspar concentrates	—do—

Sr. No.	Name	Title	Where published
(13)	Satish Misra and K. I. Vasu	Effect of silver additions on the age-hardening and related properties of aluminium-magnesium alloys	Indian J. Tech. 14, (1976), 234
(14)	V. N. Misra and P. R. Khangaonkar	Recent progress in understanding the theory of Iron-oxide reduction	Jr. of Scientific and Industrial Research, Vol. 35, April, 1976, pp. 231-238
(15)	V. N. Misra, R. C. Sinhal and P. R. Khangaonkar	Agglomeration in materials technology—A review	Jr. Scientific and Industrial Research, Vol. 35, October, 1976, pp. 536-542
(16)	S. K. Banerjee	Non-aqueous titration of Medicinal Dosage forms	Pharmag, Scientific Magazine of Pharm. Society, Baroda, Nov. 1976
(17)	K. K. Rao and A. R. Gupta	Factors affecting the production of ergot alkaloids by <i>A. fumigatus</i>	Indian J. Pharmacy 38, 154, 1976
(18)	A. R. Gupta and K. K. Rao	Antimicrobial activity of ergot alkaloids obtained from <i>A. Fumigatus</i>	Indian J. Pharmacy 38, 171, 1976
(19)	Y. K. Agrawal	Synthesis of N-Arylhydroxamic acids	J. Chem. Engg. Data, 22, 70 (1977)
(20)	Y. K. Agrawal	N.m.Tolyl-m-Nitro-benzohydroxamic acid—A new reagent for the extraction and spectrophotometric determination of uranium (vi)	Annal Di Chem, 66, 37, (1976)
(21)	Y. K. Agrawal and V. P. Khare	Thermodynamic proton Ligand stability constants of p-substituted hydroxamic acids	Rocz. Chemii, 50, 2209 (1976)
(22)	Y. K. Agrawal and (Miss) A. Mudalias	Proton Ligands stability constants of Halo-N-Arylhydroxamic acids	J. Fluorene Chem. 9, 333 (1977)
(23)	Y. K. Agrawal	Thermodynamic studies on the complexes of some Vivalent Metalions with ortho-substitued N-Phynyl benzohydroxamic acid	Thermochimica Acta, 18, 245 (1977)



Sr. No.	Name	Title	Where published
(24)	Y. K. Agrawal	Thermodynamic of Proton Dissociation in Mixed Aqueous media	Thermochimica Acta, 18, 249 (1977)
(25)	Y. K. Agrawal	An Introduction to Infrared spectroscopy	Pergamon Press, 1977
(26)	R. V. Joshi and J. K. Wesley	Luminescence of undoped sodium chloride	Acta crystallographica
(27)	R. V. Joshi and A. R. Joshi	Phosphorescence decay of doped Sodium Chloride	Journal, Technology & Engineering, M. S. University of Baroda
(28)	R. V. Joshi and L. H. H. Prasad	Luminescence of heavily doped kcl : Tl Phosphors	Journal of Luminescence
(29)	R. A. Vora	Effect of substitution and its location on liquid crystalline properties of cholesteryl benzoates and cholesteryl cinnamates	Curr. Sci., 45, 538 (1976)

## (b) Books Published :

Name/s	Title	Name of Publisher with Month of Publication
(1) R. C. Patel, L. B. Shah, B. M. Patel and V. H. Shah	Technical Dynamics-I	Acharya Book Depot, Baroda, September, 1976

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

Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
(1)	O. H. Patel and N. C. Shah	Symposium on Stability and safety of Ajwa Earthen Dam, Baroda's problem of storm water drainage and flood prevention organised by Baroda Productivity Council and Inst. of Engineers, Baroda	Protection to Baroda City from floods and its limitations

Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
(2)	P. M. Modi	All-India Symposium on Mathematical Modelling for simulation and solution of water resources problem at Bihar College of Engineering, Patna, April, 1976	Mathematical Modelling of Two-dimensional Transport-diffusion
(3)	P. M. Modi and J. J. Prajapati	Sixth National Conference on Fluid Mechanics and Fluid Power, at IIT, Kanpur, Dec. 1975	New Graphical Approach determining normal depth of flow in trapezoidal channels
(4)	R. D. Bhatt	Seminar on Development of Rural Communities at I.I.T. Kharagpur, April, 5-7, 1976	(i) Rural Road Construction Technology (ii) Transportation planning based on the growth potential of village
(5)	D. M. Shah and R. D. Bhatt	Second U.G.C. sponsored seminar on "Environmental pollution problems of Gujarat" at L.D. Engg. College, Ahmedabad	Strategy of controlling Air pollution due to Urban traffic
(6)	R. D. Bhatt, N. B. Parmar and G. B. Sompura	—do—	Road design for traffic noise reduction
(7)	S. M. Sen	Seminar on 'Technology forecast in years to come and assessment of the types of Technology needed' organised to celebrate the 9th Engineer's Day, the Institution of Engrs (India), Vallabh Vidyanagar Sub-Centre	Technology Manpower



Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
(8)	N. S. S. Murthy and V. Seshadri	Annual Technical Meeting of I.I.M., Poona 14-17, Nov., 1976	Pelletisation of Chromite ore
(9)	S. K. Agrawal and V. Seshadri	Symposium on 'Surface phenomena in Metals' held at I.I.T. Bombay on 19th Feb., 1977	Surface characteristics of foundry sands in moulding mixtures
(10)	V. Seshadri	(i) Open House discussion on Foundry organised by Small Scale Industrial Service Institute, Ahmedabad on 28th Sept. 1976 (ii) Seminar on Quality Week organised by Institution of Industrial Engineers—24th June 1977	Quality Control in Foundries Industry-University relationship in materials research, testing and quality control
(11)	P. J. Roychowdhary, V. M. Misra and V. Seshadri	Symposium on Solid State Chemistry and Development of Materials at Baroda in May 1976	Electron deposition of Tin-Nickel alloys from acid bath
(12)	U. P. Sinha and V. Seshadri	—do—	Low alloy structural Steels
(13)	S. K. Banerjee	Commonwealth Pharmaceutical Conference	Idole bases of <i>Impo-moea bederacea</i>
(14)	K. K. Rao	(i) 45th Annual Conference of Society of Biological Chemist of India, at Hyderabad 1976 (ii) 17th Annual Conference of Association of Microbiologists of India, at Manipal, 16-18 Nov. 1976 (iii) Commonwealth Pharmaceutical Conference at Bombay 16-20 January 1977	Phosphorus uptake in Tween 80 supplemented culture of <i>A. fumigatus</i> Studies on cellulose production by <i>A. fumigatus</i> Factors affecting the production of ergot alkaloids by <i>A. fumigatus</i>

Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
(15)	R. V. Joshi	(i) National Symposium on Solid State Chemistry Baroda (ii) Indian Physics Association Gujarat Circle, Vallabh Vidyanagar	Thermoluminescence of NaCl : Tl below room temperature Effect of concentration on thermoluminescence of deformed NaCl : Tl Phosphor
(16)	J. R. Pandya and R. T. Shah	National Conference on Crystallography, Madras	Chemical etching of calcite cleavage faces under the action of deformed NaCl : Tl Phosphor
(17)	J. R. Pandya and J. J. Mehta	National Conference on Crystallography, Madras	Etch pit shape cycles on calcite cleavage faces
(18)	J. R. Pandya	Indian Physics Association Vallabh Vidyanagar	Microhardness of crystal (ionic)
(19)	R. K. L. Padmini Agarwal, A. K. George and J. R. Otia	Nuclear Physics and Solid State Physics Symposium, Ahmedabad	Ultrasonic behaviour in nematic liquid crystals
(20)	R. K. L. Padmini Agarwal and J. R. Otia	Science Congress, Bhuvaneswar	Behaviour of molar sound velocity in nematic liquid crystals
(21)	R. K. L. Padmini Agarwal, P. A. Workey and G. V. Pethe	Ultrasonic International Brigh U.K.	Elastic constants of Bi-polycrystals containing Se-Te-Pb-Sn and Sb impurities
(22)	A. M. Talati	Indian Symposium on Co-ordination Chemistry, Jadavpur Jan. 17-19 (1977)	Chelate Polymers
(23)	A. M. Talati and V. N. Mistry	Symposium on Solid State Chemistry and Development of Materials, Faculty of Tech. and Engg., M. S. University of	Semiconducting poly-chelates



Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
		Baroda, 16th to 22nd May 1976	
(24)	A. M. Talati and S. O. Parikh	—do—	Chelate Polymers
(25)	J. M. Lohar	VI International Liquid Crystal Conference, Kent, Ohio, U.S.A., August-Sept., 1976	(i) Thermotropic Mesogens p-p' disubstituted phenylcin- namic acid-1 p-(p'-n-alkoxycinnamoyl) propiophenones. (ii) Studies in Mixed Mesomorphism III: Study of Phase Transition of Mixtures with monotropic Schiff's bases.
(26)	J. M. Lohar and G. H. Patel	Symposium on Solid State Chemistry and Development of Materials, Faculty of Tech. and Engg., M. S. University of Baroda, 16th to 22nd May, 1976	Studies in Mixed Liquid Crystals-II Reliability of Extra polition method.
(27)	J. M. Lohar	—do—	Thermotropic Mixed liquid crystallinity: A review incorporating some recent development.
(28)	R. A. Vora	(i) —do—	Recent Development in the Field of Synthetic liquid Crystals.
		(ii) Symposium on Solid State Chemistry and Development of Materials. Faculty of Tech. and Engg., M. S. Univer-	Effect of chemical constitution on thermotropic liquid crystals-II: p-n-Alkoxybenzylidene-p-chloroanilines.

Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminar	Title of the Paper presented
		sity of Baroda, 16th to 22nd May, 1976	
		(iii) Vith International Liquid Crystal Conference. Kent, Ohio, U.S.A. 23-26 August, 1976	Thermotropic Liquid Crystals I: p-n-alkoxybenzylidene-p-bromoanilines.
		(d) Talks given at different Institutions:	
Name of the Teacher		Institution	Subjects
(1)	S. K. Damle	(i) Railway Staff Training College Baroda April/May 1976	Computer Oriented Numerical Methods
		(ii) Staff Training College, P.W.D. E.R.I. Baroda	Bridge Bearings
(2)	P. V. Parikh	(i) Symposium held at Gandhinagar	Stability and Safety of Ajwa Dam
		(ii) Staff Training College, Baroda	Diaphragm Wall
(3)	V. S. Thattey	Institution of Engineers (India) Vadodara Sub-Center August 1976	Structural concrete
(4)	A. V. Shroff	Institution of Engineers (India) Vadodara Sub-Center 17th February 1977	Current Problems of research in technical Engineering in British Universities
(5)	P. M. Modi	Institution of Engineers (India) Vadodara-Sub-Senter and Indian Water Works Association 22 Dec. 1976	Amster Dam Water supply scheme
(6)	G. B. Sompura	Institution of Engineers (Baroda Sub-centre)	Saline Soil reclamation by leaching and flooding method
(7)	R. D. Bhatt	do	Parking needs of Vadodara City



<i>Name of the Teacher</i>	<i>Institution</i>	<i>Subjects</i>
( 8 ) M. P. Modi	Summer School on Water Treatment and Distribution, M.S.U. Baroda May 1976	Design of distribution system for water supply
( 9 ) H. V. Bhavnani	( i ) do	Coagulation
	( ii ) Medical College, Baroda, March 1977	Rural Water supply
(10) A. N. Shah	Summer School on Water Treatment and Distribution MSU Baroda May 1976	( i ) Chloramination ( ii ) Short circuiting in sedimentation Tank
(11) N. M. Bhatt	do	( i ) Methods for water disinfection ( ii ) Importance of water and Waste water Analysis
(12) H. Y. Geethanath	Institution of Engineers, Baroda Sub-Centre, 27 Dec, 1976	Role of Aerial survey in Civil Engineering
(13) G. C. Kothari	( i ) I. I. Sc., Bangalore	Stability studies concerning Vijaynagarm State Plan
	( ii ) Institution of Engineers ( India )	Modern Trends in Distance Protective Systems for EHV Transmission line
(14) R. C. Desai	College of Engineering, Trivandrum	Four lectures to the participants of the Summer School on 'Computer Aided Design'
(15) S. K. Agrawal	Short term course on Heat treatment of Metals and Alloys organised by the Dept. of Met. Engg. M. S. University of Baroda for participants from Industries at Ahmedabad 16-8-76 to 21-8-76	General methods of heat treatment
(16) V. Seshadri	—do—	Principles of heat treatment
(17) P. J. Roychowdhary	Summer School at L.E. Engg., College, Morvi	Powder metallurgy as manufacturing technique
(18) T. R. Joshi	I. I. T., Delhi	Applied Optics

## 2. Participation in Service Programme

<i>Name of Teacher</i>	<i>Place &amp; Date</i>	<i>Field of Specialization training</i>
( 1 ) J. J. Prajapati	Central Water & Power Research Station May 1976	Training in various research techniques
( 2 ) R. D. Bhatt	Central Road Research Institute, Delhi April-May 1976	Fatigue testing of base materials
( 3 ) N. B. Parmar	—do—	Plastic Asphalt and its properties
( 4 ) R. D. Bhatt	Regional Engg., College, Warangal ( A. P. ), May-June 1976	Traffic Flow and Traffic Model
( 5 ) N. B. Parmar	—do—	—do—
( 6 ) N. B. Parmar	I.I.T. Kanpur, Nov.-Dec. 1976	Transportation & System Engineering
( 7 ) P. N. Sutaria	I.I.T. Kanpur, February 1977	Computer Methods in Hydrology
( 8 ) R. R. Vishwakarma	I.I.T. Kanpur from 6th Dec. to 18th Dec., 1976	Experiments in Chemical Metallurgy
( 9 ) Satish Misra	I.I.Sc. Bangalore, 14th May 1976	Separation Analysis of particles
(10) Satish Misra	B.H.U. Banaras, April-May 1976	Literature Survey and Training in Electron Microscopy
(11) D. K. Basa	National Institute of Foundry and Forge Technology, Ranchi during April-May 1976	Modern methods of moulding and Casting practices
(12) S. K. Agrawal	Department of Metallurgy Engineering I.I.T. Bombay, 17th May to 5th June, 1976	Fibre reinforced composite creep resistant materials short course under Q.I.P.



## 5. Textile and Allied Industries Research Organisation (TAIRO)

- (1) Single rotor open and spinner designed and developed at TAIRO is supplied to one of the Technical Institutes at Southern India for Post-graduate students of Textile. In this model all the components of Open End Spinner are housed in one box. The Sliver is fed and yarn is produced and wound on a cheese. Rotor revolving at more than 35000 R.P.M.
- (2) The Scheme on the Flatless Card had remained uncompleted as further grant for the scheme is stopped. During the year under report three laps i.e. one from Indian Cotton, one from Egyptian Cotton and one from Terelene fibres were processed through the above machine and further investigations for comparing the spinning value, count and strength with the conventional card are going on.
- (3) TAIRO has designed and developed one more Miniature Card of 10" wide and the same is being supplied to the one Polyester Fibre Manufacturing Company. This will be the import substitution. Till to-day such cards are imported for laboratory purposes.
- (4) TAIRO has decided to publish a commemoration volume "World Textile Machinery Developments" in the year 1978 at the time of Silver Jubilee Celebration of TAIRO. This book will be divided into four sections viz. (i) Spinning Machinery, (ii) Preparatory and Weaving Machinery and Knitting Machines, (iii) West Processing Machinery, (iv) Textiles Testing Instruments.
- (5) TAIRO has tested various materials like Cotton Cloth, Yarn, Woolen Fabrics, Jute Bags, Fitter Cloth, Craft Paper, Plastic Box strapping, Polythelene low density bags, Fibre Glass, S.S. Wire Cloth etc. as per I.S.I. specification.
- (6) Silver Jubilee Sub-Committee of TAIRO has decided to take-up the following ten Research Projects in next coming years : (i) Modern High Speed Roller Ginning Machine, (ii) Bobin Stripper, (iii) Continuous Twist Tester (Mechanical), (iv) Automatic Doffing on Ring Frame, (v) Electronic Cloth Guider for Finisher Range, (vi) Unifil (Lesona type), (vii) Pirn Changing Mechanism for Ordinary Looms, (viii) Chute feeding arrangement to the card, (ix) Yarn break (Massing) Detector, (x) Automatic Tension Compendator.

## 6. Library

The reading room of the Library has seating accommodation for 130 readers. Books for reference are issued between 8-00 a.m. and 10-00 p.m. on all working

days and also on Sundays and Holidays. Books are issued for reading at home between 11-00 a.m. and 5-15 p.m. on all working days and between 11-00 a.m. and 2-45 p.m. on Saturdays. The details regarding the average daily attendance of students and teachers in the Library and/or the reading room and the number of books are as under

Particulars	Number
(1) Average number of students making use of Library and/or reading room daily	960
(2) Average number of teachers making use of the Library and/or reading room daily	200
(3) Total number of books issued to students during the year	10,000
(4) Total number of books issued to teachers during the year	3,000

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

Particulars	Books of Number	Bund periodicals	Cost in Rs.
(1) Books (including Back numbers of journals) as on 1-4-1977	47579	6865	20,37,868
(2) Books written off during the year	—	—	—
(3) Books added during the year	1984	307	2,96,418
(4) Books as on 31-3-1977	49563	7172	23,34,286
(5) Journals subscribed during the year	180	—	—
(6) Total amount spent for library and/or reading room during the year	—	—	23,34,286

## 7. Important Academic Activities

The Faculty organised an All India Workshop on Architectural Education sponsored jointly by U.G.C. and M. S. University from 8-1-1977 to 15-1-1977. Fifteen different schools from all over the country were represented at the workshop. A symposium on Solid State Chemistry and Development of Materials was organized from 16-5-1976 to 22-5-1977. It was sponsored by the U.G.C. A short term course on Heat Treatment of Metals and Alloys was organised by the Department of Metallurgy of this Faculty.

## 8. Training and Placement Activities

- (1) A considerable section of pre-final and other students were encouraged and assisted in obtaining practical training in various industrial establishments



around Baroda and elsewhere in the country. In addition, all Chemical and Pharmacy students and majority of Metallurgy students were sent for the practical training. (2) Large number of industries have used facilities offered by this unit for contacting graduating students for offering employment/training opportunities. (3) The Indian Navy visited the faculty for conducting a Preliminary Interview for entry to Navy under the University Entry Scheme. (4) Co-operative Course: Students of Mechanical and Electrical Branches underwent training under the scheme and completed their studies in December, 1976.

#### 9. Visitors

	Name	Date
(1)	Dr. L. F. Boswell, Department of Civil Engineering, The City University of London, U.K.	29-12-1976 to 18-1-1977
(2)	Prof. R. W. New, Professor of Production Engineering, Brenel University, U.K.	19-1-1977
(3)	Mr. P. C. Tuts, UNIDO (United National Industrial Development Organisation) Expert working with IPCL	19-1-1977
(4)	Mr. Tothes, UNDP Expert at IPCL Complex	15-2-1977
(5)	Dr. J. F. Schweitzer, Science Education Adviser of British Council, U.K.	28-2-1977 to 1-3-1977
(6)	The Nigerian Government Delegation consisting of (i) Mr. R. Akpan, Head of Ministry of Works, (ii) Mr. A. Sanni, Head of Chemical Engineering Department, University of I.F.E. and (iii) Mr. O. DAIRO Chief Mechanical Engineering State, Water Corporation	

## CHAPTER XIV—FACULTY OF FINE ARTS

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

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

Year/Class		Men Students	Women Students	Total
(a)	Certificate			
	1st Year	5	2	7
	2nd Year	5	2	7
	Total	10	4	14
(b)	Diploma			
	1st Year	26	—	26
	2nd Year	30	6	36
	3rd Year	21	—	21
	4th Year	27	1	28
	5th Year	20	3	23
	Total	124	10	134
(c)	Post-Diploma Diploma:			
	Junior	7	3	10
	Senior	5	—	5
	Total	12	3	15
(d)	Degree:			
	1st Year	25	15	40
	2nd Year	6	18	24
	3rd Year	10	14	24
	4th Year	13	9	22
	5th Year	18	13	31
	Total	72	69	141
(e)	Post-graduate Diploma:			
	Junior	3	—	3
	Senior	4	2	6
	Total	7	2	9



Year/Class	Men Students	Women Students	Total
(f) Post-graduate Degree:			
Junior	19	6	25
Senior	7	3	10
Total	26	9	35
(g) Ph.D.	4	2	6
Total	4	2	6
Grand Total	255	99	354

In addition to the above, there were 15 non-collegiate students, Government scholars, Commonwealth Scholars, and students from overseas.

### 3. Staff

- (a) The staff of the Faculty including the Museology Department consisted of 2 Professors, 6 Readers, 22 Lecturers, 1 Archivist, 1 Taxidermist, 1 Part-time Photographer, 1 Part-time Instructor, 12 Class III and 17 Class IV employees.
- (b) Shri Dhumal Purushottam Dinkarrao, M.A. (Fine) was appointed as Lecturer in Lithography in the Department of Graphic Arts from 9-12-1976.
- (c) (i) Shri Jeram D. Patel, Reader in Applied Arts was promoted and appointed as Professor of Applied Arts from 1-7-1976.  
(ii) Shri V. S. Patel, Lecturer in Lithography was promoted and appointed as Reader in Graphic Arts from 1-7-1976.
- (d) Shri N. J. Mehta, Lecturer in Photography expired on 20-3-1977.

### 4. Professional Growth of the Staff

#### (a) Published Articles:

Name of the Teacher	Title	Journal
Shri Gulam Sheikh	(i) Expression in Indian Art "The Painters Disquiet World"	Patriot, 18-4-1976.
	(ii) Creativity in Art and Poetry (Gujarati)	Samarpan, October, 1976

#### (b) Papers presented at Seminars and Conferences:

- (i) Dr. V. H. Bedekar organised the U.G.C. Refresher Course in Museology in the Faculty of Fine Arts from 11th to 17th October, 1976. He gave three key note addresses at the session on the Modern Trends in Education Exhibition and Museum Planning.
- (ii) Dr. Bedekar gave a lecture on "Ethics of Acquisition of Arts objects" at All India Museums Camp organised by the Department of Culture, Government of India at Bhubaneswar.
- (iii) Professor K. G. Subramanyan was invited to attend the World Craft Council Conference at Oaxtepec, Mexico, as member of the Direction of the Council.
- (iv) Dr. Ratan Parimoo convened in Delhi a meeting of an Expert Committee for preparing a working paper for the proposed All India Workshop on the Problems of Teaching and Research in History of Art in Indian Universities to be sponsored by U.G.C.
- (v) Shri R. P. Shah attended Workshop Seminar on Conservation organised by the National Research Laboratory for Conservation of Cultural Property at New Delhi.
- (vi) Shri Jyoti Bhatt participated in All India Artists' Camp organised by Lalit Kala Akademi, New Delhi.

#### (c) Talks given:

Name	Institution	Subject
(i) Dr. V. H. Bedekar	All India Museums Conference at Salar Jung Museum, Hyderabad	The Training of Security Personnel.
(ii) Shri Ramesh Pandya	Art Teachers' Refresher Course organised by Gujarat State Lalit Kala Akademy at Baroda	Two dimensional Forms.
(iii) Shri Mahendra Pandya	Art Teachers' Refresher Course organised by Gujarat State Lalit Kala Akademy at Baroda	Sculpture.
(iv) Dr. Ratan Parimoo	Art Teachers' Refresher Course organised by Gujarat State Lalit Kala Akademy at Baroda	Art Education in Western Countries.
(v) Shri N. K. Sant	National Institute of Design, Ahmedabad	Lecture Demonstration of Figure Drawing and Illustration.



d) *Participation In-service Programmes:*

- ( i ) Dr. Bedekar was appointed member of the Museum Advisory Committee of the Museum of the Department of Fine Arts, Chandigarh University, member of the Technical Committee of the Museum of Arthropology, Pune and member of the Museum Advisory Committee of the Government Museum and Art Gallery, Chandigarh. He continued to work as Editor "Studies in Museology" the journal of the Department of Museology.
- ( ii ) Shri R. T. Parikh continued as Secretary and Shri R. P. Shah as treasurer of the Museum Association of Gujarat.
- ( iii ) Shri Mahendra Pandya was elected as Vice-President and Shri Deepak Kannal as Jt. Secretary of the Sculptor's Forum of India.
- ( iv ) Shri Gulam Mohammed Sheikh was invited to serve as correspondent to the 10th Biennale of Paris 1976-77. He was invited to select and judge entries from the Annual State Exhibition of Madhya Pradesh Kala Parishad in Jabalpur, February, 1977.
- ( v ) Shri Mahendra Pandya was appointed a member of the Triennale Committee by the Lalit Kala Akedami, New Delhi.
- ( vi ) Kum. Kumud Patel organised Kala Yatra and was a judge for the Hobby collection competition organised by the Ninth Gujarat State Youth Festival held in Baroda. She attended an Intensive course in "Puppetry Craft" conducted by Smt. Maher Contractor from "Darpana" Ahmedabad and a "Tribe Mala" at Mathwar ( M.P. ) during Holi Festival.
- ( vii ) Shri Jyoti Bhatt was appointed member of Board of Studies for Fine Arts and Music, Banaras Hindu University, Varanasi.
- ( viii ) Professor K. G. Subramanyan visited Canada at the invitation of Shastri Indo-Canadian Institute as Visiting Professor and lectured in the Universities of MC Gill, Concordia ( Montreal ), McMaster ( Hamilton ), Toronto ( Toronto ) Zingara ( Vancouver ), on Indian Art during February-April, 1976. He also visited London on the invitation of British Council to see the World of Islam exhibition.
- ( ix ) Shri N. K. Sant participated in the workshop for Children's Book Illustrations organized by National Book Trust of India at Ahmedabad in January, 1977.

5. **Exhibition and Prizes won by Staff Members:**

- ( i ) Shri Vinod Shah held a one-man show of his paintings at Jahangir Art Gallery, Bombay in December, 1976. He won a prize for

Painting at the Annual Exhibition of All India Fine Arts and Crafts Society, New Delhi.

- ( ii ) Kum. Nasreen Mohammedi won National award in Painting of Rs. 5,000/- at the National Exhibition of Art, Lalit Kala Akademi, New Delhi.
- ( iii ) Shri R. R. Kaneria won third prize and bronze medal in Colour Photography at Nikon International Photo Contest, Japan, 1977.
- ( iv ) Four staff members and five students participated in the Functional Sculpture exhibition organised by the Sculpture Forum of India in Bombay.
- ( v ) Dr. Ratan Parimoo arranged one-man show of his drawings and paintings at Shridharani Gallery, New Delhi.
- ( vi ) Shri Gulam Shaikh participated in Indian Paintings, 1977 held at Punjab State Museum in Chandigarh in January, 1977.
- ( vii ) Professor K. G. Subramanyan was represented in the Indian Section of Menton Biennale, Menton ( France ) in September, 1976.

6. **Prizes Won by Faculty Students**

- ( i ) Three post-graduate students participated in the Workshop for Children's Book Illustrations organized by National Book Trust of India at Ahmedabad in January, 1977.
- ( ii ) The following students won prizes in different exhibitions:

( a ) *Sculpture:*

Gujarat State Art Exhibition:

- ( 1 ) Shri M. Velayutham
- ( 2 ) Shri Vimal Senapati
- ( 3 ) Shri Dhuruva Mistry
- ( 4 ) Shri Dayal Patel

( b ) *Graphic:*

- ( 1 ) Shri Manohar Akre—First Prize in Graphic at the:
  - ( a ) Gujarat State Art and Exhibition,
  - ( b ) Maharashtra State Art Exhibition and
  - ( c ) All India Fine Art and Crafts.
- ( 2 ) Shri Gohel—Gujarat State Art Exhibition.

( c ) *Painting:*

- ( 1 ) Kum. Kakoli Barkakoti, Gujarat State Art Exhibition.
- ( 2 ) Kum. Archanakumari was invited to participate in Artists Camp at Kausoli ( Himachal Pradesh ).



### 7. Lectures under Extra Mural Activities

- ( i ) A group of Tribe Artist led by Shri Alsing from Chhota Udaipur gave two demonstrations of Mural Painting in the Painting Department.
- ( ii ) Dr. V. S. Wakankar, a well-known indologist from Ujjain gave series of two lectures on Indian Prehistoric Cave Paintings.
- ( iii ) Mr. James A Beveridge, Chief Technical Adviser, Film and Television Institute of India, Pune, gave a talk on Visual Arts and film-making together with Screening of his films in the Faculty Auditorium.
- ( iv ) Mrs. Devangana Desai of Bombay gave two lectures on " Erotic Sculpture of India ".
- ( v ) Shri Raghu Rai, a well-known Photographer working in Statesman, New Delhi, gave a talk on his work as a Photo-Journalist in the Department of Graphic Arts of the Faculty of Fine Arts.

### 8. Lectures under Visiting Professors Scheme ( 1976-77 )

- ( i ) Shri M. V. Krishnan, Reader in Sculpture, Faculty of Music and Fine Arts, Banaras Hindu University, Varanasi, gave a lecture on " Some aspects of Cire perdu casting in India ".
- ( ii ) Dr. D. C. Bhattacharya, Reader, Department of Fine Arts, Punjab University, Chandigarh, gave two lectures on " Vajrayana Buddhist Iconography ".
- ( iii ) Shri Mahendra Patel, Chairman, Visual Communication Faculty, N. I. D. Ahmedabad, gave two lectures on " Graphic Design and Typography ".

### 9. List of Film Shows and Exhibitions Arranged in the Faculty

- ( i ) Films on Several Western Artists lent by the British Council were screened.
- ( ii ) Two sessions of Filmshows—one of Animation Films—made by Shri Ishu Patel and the other by well-known Directors of Museum—were arranged by the National Design Institute, Ahmedabad as part of educational collaboration.
- ( iii ) National Institute of Design arranged the exhibition of their Textile products.
- ( iv ) The British Council, Bombay arranged an exhibition " Processes of Print making ". The Italian Cultural Centre, New Delhi, arranged an exhibition " History and Restoration of the Deposition from the cross " by Raphael.

- ( v ) The Department of Art History arranged an exhibition " Development and the styles of Hindu Temple ", " consisting of photographs, charts and plans selected from its Photographic Archives.
- ( iv ) Sculptures Forum of India arranged an Exhibition of Functional Sculptures.
- ( vii ) The following Artists had arranged their exhibitions in the Faculty.
  - ( 1 ) Vivan Sundaram Drawing and Paints
  - ( 2 ) Jaydev Thakore Prints
  - ( 3 ) J. H. Shukla Prints
- ( viii ) The following students arranged their exhibition:
  - ( 1 ) Lalit Gupta Drawing
  - ( 2 ) Amit Mukerjee Sculpture
  - ( 3 ) Savji Chhaya Drawing
  - ( 4 ) Rajni Patel Sculpture
  - ( 5 ) A. A. Alamgir Prints

### 10. Library

#### ( 1 ) Books:

Out of the allocation of Rs. 30,000 sanctioned from the U.G.C. grant for the V Plan for Books, an amount of Rs. 12,423-95 P. was spent in 1976-77.

	<i>Books ( including back numbers of Journals )</i>	<i>Total value in Rs.</i>
Number at the beginning of the year	5998	1,08,355-04
Number added	112	12,423-95
Number at the end of the year	6110	1,20,778-99

#### ( 2 ) Periodicals:

The total number of periodicals and journals subscribed to now stands at 11. The amount spent for this purpose was Rs. 3,532-05. The amount spent for binding was Rs. 714-00.

#### ( 3 ) 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 per day 128
- ( ii ) Average number of books issued per day for Home Reading 7



- (iii) Average number of teachers making use of the Library per day 6
- (iv) Average number of books issued per day for reading on the premises 576

### 11. Visitors

- (1) Professor Rees Jones from U.K. gave lectures on Artists and their Methods, Problems in Conservation of Painting Supports and Painting Cleaning and Microscopic Studies on Paintings, in December, 1976.
- (2) Shri Manu Desai gave a series of talks on Advertising Campaign.
- (3) Prof. C. Sivarammurthy, Padmabhushan gave five lectures on Vishnudharmottara Purana—IIIrd Khanda under the Tagore Chair in Humanities.
- (4) Mr. Haridas Swali, a noted art collector and art connoisseur of Bombay visited the Department of Museology and addressed the staff and students.
- (5) Mr. Houssaini, Deputy Director General of Museum, Ministry of Culture, Teheran (Iran) visited the Department of Museology to seek co-operation in the matter of Training Museum personnel for Iran and eventually in setting a department of Museology in Iran.
- (6) Dr. Cowan, Curator of the Royal Tropical Museum, Amsterdam, Holland.
- (7) Mr. Georges Boudailles, Delegate-General of the Paris Biennale of Young Artists (France) visited the Faculty with a view to select artists for participation in international exhibition.
- (8) Mr. Francois Bret, Director, School of Art and Architecture, Marseilles, France.
- (9) Mr. Rolf Weber of Berlin Museum, West Germany.

## CHAPTER XV—FACULTY OF HOME SCIENCE

### 1. Courses of Studies

The Courses of Studies remained the same as in the previous year, except that the M.Sc. in Clothing and Textiles is now offered in two groups: (i) Clothing and (2) Textiles. The Ph.D. Program of studies is introduced in Home Management.

### 2. Number of Students

Class	Men	Women	Total
(1) B.Sc. (Home)			
1st Year	—	289	289
2nd Year	—	233	233
3rd Year	—	179	179
4th Year	—	141	141
Total	—	842	842
(2) P.G. Diploma in Dietetics	—	17	17
(3) P.G. Diploma in Pre-school Education	—	28	28
(4) Junior M.Sc.	—	58	58
(5) Senior M.Sc.	—	58	58
(6) Ph.D.	1	16	17
Total	1	177	178
Grand Total	1	1019	1020

### 3. Staff

#### (a) Present Position:

The staff of the Faculty including Chetan Balwadi consisted of 3 Professors (two of whom are in the senior scale), 7 Readers, 37 Lecturers, 6 Teaching Assistants, 2 Teachers, 18 Class III and 33 Class IV employees.

#### (b) New Appointments:

- (1) Kum. Sunanda Marathe Lecturer in Clothing and Textiles
- (2) Kum. Shamala Shastri Teaching Assistant in Foods and Nutrition
- (3) Smt. Shashi Tuteja Teaching Assistant in Biology
- (4) Shri G. H. Patel Teaching Assistant in Chemistry
- (5) Kum. Amita Vaish Teaching Assistant in Home Management
- (6) Kum. Rupinder Luthra Teaching Assistant in Home Science Education and Extension
- (7) Kum. Manju Lall Teaching Assistant in Child Development.



## (c) Teachers who left the University:

Smt. Zenobia Choksey, Lecturer in Foods and Nutrition—Resigned.

## 4. Professional Growth of the Staff

## (a) Published Books:

Author	Title	Name of the Publisher with month of publication
Miss Savitri Pandit	Indian Embroidary—its variegated chasons	October, 1976

## (b) Papers presented at All India Level Seminar, Conference, etc.

Name of the Teacher	Name of the Place and Dates of Conference/Seminar	Title of the Paper presented
(1) Prof. (Mrs.) A. Verma	Symposium on Health and Hygiene in the quality week seminars, Institute of Industrial Engineers, 19-1-1977	The child in the changing environment
(2) Prof. (Miss) J. A. Singh	Textile Association, Baroda, 23-9-1976	Fashion Designing in Textiles and Merchandizing
(3) Prof. (Mrs.) A. Verma and Dr. (Mrs.) Mistry V.	Pre-School Conference, Bombay, 15-2-1977	Pre-School Teachers Education
(4) Dr. (Miss) N. Ogale	Annual meeting of the Institute of Industrial Engineers, Baroda Chapter	Consumer competence as a factor in improving quality of life
(5) Dr. (Miss) S. Gujral	(i) Annual meeting of Nutrition Society of India (ii) Scientific Sessions of First International Conference of Parasitology, Baroda.	Effect of ginger & ginger components on cholesterol levels in cholesterol fed rats. Some bio-chemical changes in liver amoebiasis
(6) Dr. K. V. Thrivikraman	45th Annual Meeting of the Society of Biological Chemists	Protein deficiency and experimental lead toxicity on liver and brain-Ascorbic acid in Albino Rats

## (c) Talks given at different Institutions:

Name of the Teacher	Institutions	Subject of the lecturers
(1) Dr. (Miss.) N. Ogale	(i) Summer Institute on improvement of managerial practices of rural families for the development of agriculture, sponsored by ICAR, held at the Department of Home Management, Ludhiana (ii) Workshop for agents in small savings scheme programme of Baroda Collectorate Office	(1) Introduction to concepts in Home Management (2) Organization and supervision concepts in Home Management (1) Planning and construction of house according to the family needs and resources (2) Family income and budgeting Activities in a Nursery School
(2) Dr. (Mrs.) Yogini Pathak	Institute of Extension Education, Agricultural University, Anand, 15-3-1977	
(3) Dr. (Mrs.) Atula Derasari	do 23-2-1977 & 2-3-1977	(1) Applied Nutrition (2) Infant Feeding and Preschool Health

## (d) Participation in Inservice Programme:

Name of the Teacher	Programme, Place and Dates	Capacity in which participant
(1) Mrs. Nirmala Misra	Course on Research Methodology, Hyderabad, June-July 1976	Trainee

## 5. Faculty Union Activities

The entertainment programme was held on 26th March, 1976 at which the tiny tots from Chetan Balwadi were in the limelight. The Faculty Magazine "Reflector" was published.



## CHAPTER XVI—FACULTY OF SOCIAL WORK

### 1. Courses of Studies

The Courses of Studies remained the same as in the previous year.

### 2. Number of Students

The number of students enrolled during the year 1975-76 was as under:

	Men	Women	Total
(1) Diploma in Industrial Relations and Personnel Management	18	—	18
(2) Master of Social Work ( M.S.W. )			
Juniors	22	12	34
Seniors	21	15	36
(3) Ph.D.	2	—	2
Total	63	27	90

### 3. Staff

#### (a) Present Position:

The staff of the Faculty consisted of 1 Professor, 2 Readers, 8 Lecturers, 2 Temporary Teaching Assistants, 1 Part-time Teacher, 9 Class III and 7 Class IV employees.

#### (b) Teachers who left:

Smt. Promila Maitra, Reader in Social Work resigned from 28-9-1976 for personal reasons. Shri B. J. Pandya, Lecturer in Social Work resigned from 16-8-1976 for further studies in the U.S.A.

### 4. Professional Growth of the Staff

#### (a) Publication of Articles/Papers

Sr. No.	Name of the Teacher	Article	Name of the Journal wherein published
(1)	Shri S. R. Yardi	Professional journal in the field of Social Work	Social work Review, Journal of the Faculty of Social Work
(2)	Kumari Rekha Mukherjee	Fascism—a Social Appraisal	Radical Humanist, May, 1976

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

Name of the Teacher	Name, Place and Dates of the Seminars, Conferences	Title of the Paper presented
(1) Smt. Varsha Anjaria	Regional Training Course on 'Suppression of Immoral Traffic in Women and Girls' by Association for Social Health in India and National Institute of Social Defence at Ahmedabad; Dec. 1-2-1976	Turning a new leaf; Councelling as a Curative and Preventative Program

#### (c) Participation in Inservice Programme/Seminar etc.

Sr. No.	Name of the Teacher	Programme	Capacity in which participated
(1)	Shri S. R. Yardi	(i) Seminar on Challenge of Poverty and Social Work at Andhra University, Waltair, 13th to 22nd December, 1976	Participant
		(ii) Training Programme for U.C.D. Organizers, by Directorate of Municipalities, Government of Gujarat at Baroda from 1st May to 15th June, 1976	Director
		(iii) Conference of Personnel and Welfare Officers held in Baroda from 11th to 13th February, 1977	Participant
		(iv) NSS Orientation Programme for University teachers, sponsored by Ministry of Education and Social Welfare, Government of India, Delhi from 22nd March to 2nd April, 1977	Director



Sr. No.	Name of the Teacher	Programme	Capacity in which participated
		( v ) Family Planning Seminar organised by Baroda Population Council and Rotary Club, Baroda, December 1976	Participant
( 2 )	Shri K. M. Sharma	( i ) Group Training Programme on ' Role of Social Work Education in Rural Development, at University of Phillippines, Manila ; 14-11-1976 to 10-12-1976	Participant
		( ii ) Family Planning Seminar, organised by Baroda Population Council and Rotary Club, Baroda, December 1976	Participant
( 3 )	Shri I. P. Shelat	( i ) Group Training Programme in ' Role of Social Work Education in Rural Development, at University of Phillippines, Manila ; 14-11-1976 to 10-12-1976	Participant
		( ii ) Seminar on " Challenge of Poverty and Social Work " at Andhra University, Waltair ; 18-12-1976 to 22-12-1976	Participant
( 4 )	Kumari Rekha Mukharjee	( i ) Seminar on Identity and Adulthood, ICSSR and Department of Humanities, III India International Centre, New Delhi; Feb. 7th to 10th 1977	Participant
		( ii ) Integrated approach to Rural Development,	Participant

Sr. No	Name of Teacher	Programme	Capacity in which participated
		Delhi School of Social Work, Delhi, January, 29-30, 1977	
( 5 )	Smt. Varsha N. Anjaria	( i ) Symposium on Home Safety i.e. on Accidents in Children and their Prevention, Gujarat Safety Council, Baroda on 1-3-1977	Speaker
		( ii ) Training Programme for U. C. D. Organizers, Directorate of Municipalities, Government of Gujarat at Baroda, May 1st to June 15th, 1976	Co-ordinator
		( iii ) Regional Training Course on Suppression of Immoral Traffic in Women and Girls organised by Association for Social Health in India and National Institute of Health, at Ahmedabad Dec. 2, 1976	Participant
		( iv ) Worker's Education Programme organised by Central Board for Worker's Education at O.N.-G.C. Makarpura, Baroda on Social Development and Industrial Worker	Speaker
( 6 )	Shri S. B. Saxena	( i ) Conference of Personnel and Welfare Officers held in Baroda; 11-2-1977 to 13-2-1977	Participant
		( ii ) Training Programme for U. C. D. Organizers, Directorate of Municipalities	Co-ordinator



Sr. No.	Name of Teacher	Programme	Capacity in which participated
		palities, Government of Gujarat at Baroda; 1-5-1976 to 15-6-1976	
(7)	Smt. Thrity G. Vaswani	Seminar on Integrated Child Development Services Scheme held by National Institute of Public Co-operation and Child Development at Delhi, Dec. 1-2, 1976	Participant
(8)	H. M. Rajyaguru	Family Planning Seminar organised by Baroda Population Council and Rotary Club at Baroda, December 1976.	Participant
(9)	Shri Anilkumar S. Navale	(i) National Conference of Planning Forums convened by Ministry of Education and Social Welfare at New Delhi December 10-11, 1976	Participant
		(ii) Seminar on "Role of Youth in National Development" convened by National Institute of Community Development, Hyderabad on December 24-26, 1976	Participant
		(iii) Training Programme for U.C.D. Organizers, Directorate of Municipalities, Government of Gujarat at Baroda, May, 1976	Trainer
		(iv) Discussion on 'Abolition of Dowry System'	Participant

Sr. No.	Name of Teacher	Programme	Capacity in which Participated
		convened by Minister of Social Welfare, Gujarat State at Gandhinagar, 18-1-1977	
(v)		Meeting of Programme Co-ordinators of NSS convened by NSS Zonal Centre Office on 20-1-1977 at Gujarat University, Ahmedabad	Participant
(vi)		27th All India Conference of Personnel and Welfare Officers convened by the National Institute of Labour Management at Baroda 11-12-13 February, 1977	Participant
(vii)		Family Planning Seminar organised by Baroda Population and Rotary Club at Baroda, December, 1976	Participant

### 5. Library

The faculty has a separate library. An amount of Rs. 15,000/- has been allocated to this library from the U.G.C. grant for the purchase of books for the Fifth Five Year Plan period, out of which Rs. 5,000/- earmarked for 1976-77 are fully utilized, Recurring grants of Rs. 3,500/- for purchase of books, and Rs. 1,500/- for subscription of periodicals sanctioned by the University, are fully utilized. The following statement gives the details of acquisitions by the library during this year:

#### (a) Books:

	Books including bound periodicals	Pamphlets	Total value in Rs.
(1) Number at the beginning of the year	8950	2500	1,00,868-69
(2) Number added during the year	106	—	3,085-22
(3) Number of books discarded during the year	—	—	—
(4) Number remaining at the end of the year	9056	2500	1,03,953-91



(b) *Periodicals:*

The total number of periodicals subscribed by the library during the year was 24.

(c) *Circulation of Books:*

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

The following figures shows the statistics of the use of the Library:

(1) Daily average No. of readers visiting the library	80
(2) Average No. of books issued for home readings	110
(3) Average No. of teachers visiting the library	12
(4) Average No. of books issued per day for reference	125

6. *Visitors*

<i>Sr.No.</i>	<i>Name of the Visitors</i>	<i>Date of Visit</i>
(1)	Shri S. R. Mohandas, Director, Industrial Relation Institute, Bombay	28-7-1976
(2)	Shri P. D. Kulkarni, Consultant, Social Welfare, Poona	20-2-1977
(3)	Shri Ram Belvadi, Senior Officer, Department of Social Welfare, Poona	20-2-1977
(4)	Shri S. V. Chandorikar, Inspector General of Prison and Director of Transport, Ahmedabad	20-2-1977
(5)	Dr. Paresh Majmundar, Head of the Labour Welfare Department, Gujarat University, Ahmedabad	16-3-1977
(6)	Dr. Jyotsna H. Shah, Director, Social Defence, Ahmedabad	20-2-1977
(7)	Professor Mirza Saiyadin, Indian Institute of Management, Ahmedabad	30-3-1977
(8)	Professor M. V. Rudrabasavraj, Manager, Mafatlal Services Pvt. Ltd., Bombay.	30-3-1977

7. *Important Events*(1) *Training Programme for U.C.D. Organisers:*

The Faculty organised a six week programme (1st May-June 15, 1976) for the Urban Community Development Organisers under the sponsorship of

the Directorate of Municipalities, Government of Gujarat. The main objective of the programme was to acquaint the organisers with the basic concept in U.C.D. and the latest knowledge and skills of working with people through expert guidance and mutual exchange of experiences. Twenty community organisers from different U.C.D. projects in the State of Gujarat participated in the programme. Lecture-cum-discussions agency visits, field experience, study tour and seminar formed the teaching methods.

(2) *Symposium:*

A symposium on "Programme and Problems of Rehabilitation" was organised on 20th February, 1977, Dr. Jyotsna Shah, Director, Social Welfare was the chief guest on the occasion. Other prominent speakers were (i) Shri P. D. Kulkarni, Consultant Social Welfare, Poona, (ii) Shri Ram Belwadi, Senior Officer, Department of Social Welfare, Poona, (iii) Shri P. K. Datta, DSP, Baroda and (iv) Shri S. V. Chandorikar, Inspector General of Prison and Director of Transport. The Symposium was attended by all the heads of the Correctional Institutions in Baroda.

8. *Shri V.T.K. Institute of Rural Development, Samiala*

The Institute conducted two types of Inservice Training Programme-Social Welfare and Panchayati Raj. The approach of the training is group dynamics for adult learners about defined jobs. The training besides theory heavily depends upon laboratory work for technical skills, human relations skills, manual work skills and on field training for operational skills.

(i) *Social Welfare Training:*

<i>Course and Duration</i>	<i>Admitted</i>		<i>Completed</i>	
	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>
(a) Orientation to ICDS Supervisors 5 Weeks (4 Groups)	—	76	—	76
(b) Family and Child Welfare Workers Job Course 10 Months (One Group)	—	36	—	35
Total	—	112	—	111

As a part of practical training to S. W. Trainees—Supervisors and Extension Service to Family and Child Welfare Projects run by Gujarat State Social Welfare Advisory Board in Gujarat, 4 Staff Development Workshops for the staff (Bal-sevika, Grihsevika and Mukhya Sevika of Projects in Gujarat) were organised,



For the Practical Field Experience to the participants of one I.C.D.S. Supervisors course, a Block placement study tour was arranged at the Mother-Child Health Nutrition Model Project, Kasa.

( ii ) *Panchayati Raj Training:*

Course	Duration	Admitted		Completed	
		Men	Women	Men	Women
( a ) Pre-Service Basic Training Course for Village Panchayat Secretaries	6 months (1 Group)	40	—	40	—
( b ) Orientation Course for V. P. Secretaries	21 days (4 Groups)	150	—	150	—
( c ) Institutional Courses for Non-Officials of Village Panchayat	7 days (6 Groups)	123	—	123	—
Total		313	—	313	—

( 1 ) Mr. M. S. Pathak joined as Principal in Panchayati Raj Training Centre on deputation from the State Government.

( 2 ) Principal Shri M. S. Pathak and Mr. Pandya suggested new pattern of syllabus for newly elected Non-Official of Village Panchayat.

**Special Features and Visitors**

- ( 1 ) Visit of Urban Community Development Workers to the Institute.
- ( 2 ) Shri Arvind Natem—Dy. Minister, Education and Social Welfare Government of India visited the Institute. He also met University Officials to discuss the future plans for the Institute development.
- ( 3 ) Shri Gordhanbhai S. Patel, Minister visited Institute to discuss the plans of developing Panchayatiraj Training in Gujarat. He also blessed closing ceremony of Gram Rakshak Dal training to P.R.T.C. trainees.
- ( 4 ) Smt. Urmilaben Bhatt, Chairman of State Social Welfare Advisory Board, Gujarat, inaugurated the Job Course for Family and Child Workers of Gujarat State.
- ( 5 ) Mrs. Macconel, Australian Expert on Child Development, Shri P. D. Kulkarni, Expert in Social Welfare Planning and Miss Kishoriben Baxi, Assistant Development Commissioner and State Nutrition Officer, Gandhinagar visited the Institute.

## CHAPTER XVII—FACULTY OF LAW

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

- ( i ) The course leading to the degree of Master of Laws ( LL.M. ) has been revised. It has been split up in 2 parts viz., LL.M.—Part I and LL.M.—Part II consisting of 3 papers in each Part and compulsory examination for each part every year. Without passing LL.M.—Part I examination the student cannot be promoted to LL.M.—Part II.
- ( ii ) A Committee, consisting of Mr. Justice P. N. Bhagwati ( Chairman ), Mr. Justice B. J. Divan and Mr. Justice N. M. Miyabhoy, was appointed to consider the question of re-organization of the courses in the Faculty of Law. According to the recommendations of this Committee, the courses have been re-organized.

Semester System has been introduced since June, 1976. The First Year has been split up in 2 Semesters—Semester I and Semester II. Without passing both the Semesters, student cannot be promoted to Semester III. Semester System will be introduced progressively, as this class moves up to III Semester in June, 1977 and LL.B ( Special ) in June, 1978.

- ( iii ) 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. A specialized study of International Law has been added to the above two courses from June, 1976.
- ( iv ) The Professional Course: The Professional Course for the degree of LL.B. ( Special ) has been introduced as prescribed by the Bar Council of India. A detailed practical training requiring the students to attend regularly the lawyers' Chambers and the Courts has been prescribed. Written home assignments in Drafting and Viva-Voce Test have been incorporated as part of the Final University Examination.



## 2. Number of Students

Class	Men Students	Women Students	Total
(1) Degree Courses:			
(a) 1st Semester of LL.B. Class	530	62	592
(b) 2nd LL.B. (General)	118	13	131
(c) LL.B. (Special)	76	16	92
Total	724	91	815
(2) Post-graduate Diploma:			
(a) D.T.P.	159	14	173
(b) D.L.P.	121	12	133
Total	280	26	306
(3) Post-graduate Degree:			
(a) LL.M.—Part I	66	1	67
(b) LL.M.—Part II	12	1	13
Total	78	2	80
(4) Ph.D.	1	—	1
Grand Total	1083	119	1202

## 3. Staff

During the year the staff consisted of 1 Professor, 2 Readers, 3 Lecturers, 12 Part-time Professors, 2 Visiting Professors, 5 Class III and 4 Class IV employees.

## 4. Professional Growth of the Staff

Prof. H. C. Dholakia has been reappointed by the Government of India as a member of the Central Official Language Legislative Commission, New Delhi.

## 5. Legal Service Clinic

Inauguration of Legal Services Clinic was arranged in the Faculty on 5th March, 1977. Hon'ble Justice Shri P. N. Bhagwati, Judge, Supreme Court of India performed the inauguration and explained the need for the scheme.

Mr. Justice D. A. Desai, Chairman of Gujarat State Legal Aid Committee also explained the objectives and the functioning of the Legal Aid Scheme in Gujarat.

## 6. Visitor

Shri Kundanlal J. Dholakia, Speaker, Gujarat Legislative Assembly, visited the Faculty of Law and addressed the students on 9th March, 1977.

## 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 Institute was taken over by the University, it had 109 volumes in the Gaekwad's Oriental Series and 516 other books. At the close of the year of report the number of publications stood at 163 in the Gaekwad's Oriental Series and 613 other books.

The publications are under the following Series:

(1) Gaekwad's Oriental Series, (2) M. S. University Research Series, (3) M. S. University Oriental Series (published in the Journal of the Oriental Institute), (4) M. S. Memorial Lecture Series, (5) Shri Sayaji Sahityamala, (6) Shri Sayaji Gramavikasamala, (7) Shri Sayaji Balajnanamala, (8) Shri Shishujnanamala.

The Institute also publishes the following Quarterly Journals:

- (1) Journal of the Oriental Institute (English)
- (2) Svadhyaya (Gujarati).

## 2. Post-graduate Teaching

As a part of the scheme of co-ordination of the teaching of 14 Shastras of Sanskrit in the University, three members of staff of the Institute teach different Shastras to the M.A. students in Sanskrit while one is a recognised post-graduate teacher in Gujarati.

During the year Dr. A. N. Jani guided 7 Ph.D. students in Sanskrit and Dr. S. D. Parekh guided 1 Ph.D. student in Gujarati. In 1963 Prakrit was introduced as a Subordinate subject at B.A. and M.A. levels and Shri J. P. Thaker of this Institute has been teaching Prakrit since then at the post-graduate level. During the year he taught the subject to two students in M.A.—Part I.

## 3. Staff

During the year, the staff consisted of 1 Director (Professor's grade), 1 Deputy Director (Reader's grade), 5 Research Officers (Lecturer's grade), 8 Class III and 6 Class IV employees.

## 4. Professional Growth of the Staff

(a) Publication of Articles:

Sr. No.	Author	Title	Where published
(1)	Shri J. P. Thaker	(1) The Visvamintramahatmyam	Journal of the Oriental Institute, Vol. 26, No. 2 (Dec. 1976 issue)



Sr. No.	Author	Title	Where published
(2)	किरातार्जुनीयना वनस्पति-उल्लेखो	स्वाध्याय, पु. २४, अंक १, दीपोत्सवी अंक	
(2)	Dr. B. N. Bhatt	Estimating the Traditions of Valmiki Ramayana by the Presence Or Absence of The Syllables of Gayatri in Them	Journal of the Oriental Institute, Vol. 26, No. 2
(3)	Shri P. H. Joshi	Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 25, Nos. 1-2
(b) Papers presented at All India Level Seminars, Conferences etc.			

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference	Title of the Paper presented
(1)	Shri J. P. Thaker	All India Oriental Conference held at Dharwar from November 10 to 12, 1976.	The Visvamitrīmaha-tmyam
(2)	Shri B. P. Pandya	All India Oriental Conference held at Dharwar from November 10 to 12, 1976	Amaramarkandeyam : A Study.

### 5. Manuscripts Section

This section has a collection of 25,851 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian languages including a few in Persian and Arabic. Of these, 68 were added during the year, out of which 5 were purchased and 63 were received as gift from Shri J. J. Modi, Baroda.

During the year, 18 manuscripts were lent out to other institutions, 8 to local scholars and 155 were issued for work on the premises of the Institute, while 1 manuscript was borrowed from outside.

### 6. Printed Books Section

The Institute has a well-equipped library having a collection of 37,000 books.

#### (A) Books:

This year the library received a grant of Rs. 3,000/- from the University. A grant of Rs. 500/- was also received for purchasing books for the Vishnupurana Project. These grants were fully utilised during the year.

The U.G.C. has sanctioned a grant of Rs. 15,000/- for purchase of Books to be spent within 3 years (1976 to 1979). Out of this, an amount of Rs. 4,249-76 p. was spent for the purpose during the year.

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

	Books including bound periodicals	Total value in Rs.
(1) Total number of Volumes of the year	36,400	3,76,094-73
(2) Number added during the year	600	7,564-27
Total	37,000	3,83,659-00

Out of the total number of books added during the year, 259 were purchased at a cost of Rs. 7,564-27 p. and 341 books were received as gift and/or on exchange basis.

#### (B) Periodicals:

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

### 7. Publications

#### Gaekwad's Oriental Series:

Editing and publication of the Series is one of the main activities of this Institute. Up till now 163 volumes have been published under this Series. The following works were printed during the year:

- (i) Vrddhayavanajataka, Vol. II —by Prof. David Pingree
- (ii) Nityotsava —by Prof. Umanand Nath  
(Reprinted by Photo-Offset method)

The following works are under print:

- (1) Kṛtyakalpataru (Pratisthakanda) —by Shri K. V. Ragaswami  
(pp. 1-120 printed) Aliyanganar
- (2) Shri Parasuramakalpasutra, —by Shri Shankarlal Sastri  
(IInd Edition—Reprint)  
(pp. 1-8 printed)
- (3) Nyayalankara —by Prof. Anantalal Thakur and  
(pp. 1-168 printed) Late Dr. J. S. Jetly
- (4) Saktisangamatantra, Vol. IV —by Late Dr. B. Bhatīacharya and  
(pp. 1-136 printed) Pandit Vrajavallabha Dwivedi



- (5) A Descriptive Bibliography of Pancha- —by Prof. H. Daniel Smith  
ratra Agamas, Vol. II
- (6) Satyasiddhi, Vol. II —by Shri N. A. Sastri  
(pp. 1-104 printed)
- (7) A Dictionary of Sanskrit Grammar —by Late Prof. K. V. Abhyankara  
(Revised Second Edition) and Dr. J. M. Shukla  
(pp. 1-136 printed)

#### 8. Translation Branch

The following works are under print:

Shri Sayaji Sahityamala:

- (1) 'चरकनो स्वाध्याय' —by Shri Bapalal G. Vaidya  
(Vol. II, pp. 727-1350 printed)
- (2) 'भारतीय वीणा' —by Shri Rasiklal Pandya  
(pp. 1-16 printed)
- (3) 'सहस्रलिंग अने रुद्रमहालय' —by Late Shri Kanaiyalal Dave
- (4) 'द्वारका प्रदेशनो सांस्कृतिक इतिहासः' —by Late Shri Kalyanraya Joshi

#### 9. The Visnupurana Project

The University Grants Commission has sanctioned under Fifth Five Year Plan eight posts on permanent basis for the Critical Edition projects of the Oriental Institute. Initially a research project of preparing and publishing the Critical Edition of the Visnupurana is taken up by the Oriental Institute. The U.G.C. will bear two-third expenditure and the State Government the remaining one-third expenditure during the years 1975-79. After 1979 the State Government would take over the recurring liabilities of the staff consisting of one General Editor, one Assistant Editor, four Critical Apparatus Writers and two Proof-readers. The work of preparing the Critical Edition is under progress. The collation of three Devanagari MSS. and one Sardar MS is over.

#### 10. Journal of the Oriental Institute

During the year Nos. 3 and 4 of Vol. 25 and Nos. 1-2 of Vol. 26 were published. 126 and 71 subscribers were registered for Vol. 25 and Vol. 26 respectively and 157 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and Oriental learning including papers on Ramayana and allied topics concerning the epics and the puranas.

There was a simple ceremony on the occasion of the releasing ceremony of the Silver Jubilee Issue of the Journal of the Oriental Institute on 8-10-1976. Shri R. V. Chandramouli, Secretary, Education Department, Government of Gujarat, released the Issue.

#### 11. Gujarati Journal 'Svadyaya'

During the year, Nos. 3 and 4 of Vol. 13 and Nos. 1 and 2 of Vol. 14 were published. 110 subscribers were registered for both these Vols. and 33 copies were sent on exchange basis.

#### 12. Visitors

Sr.No.	Visitors	Date
(1)	Prof. Gustav Roth, Gottingen, West Germany.	16-7-1976
(2)	Lt. General K. P. Candeh, Director General, Youth Services, Cabinet Secretariat, New Delhi.	30-7-1976
(3)	Dr. Kamaleswar Bhattacharya, Maintre de Recherche, Centre National de la Recherche Scientifique, Paris, France.	16-8-1976
(4)	Dr. Anuradha Seneviratna, Director, Institute of Aesthetic Studies, University of Sri Lanka, Sri Lanka.	22-9-1976
(5)	Dr. (Mrs.) Pratibha Agrawal, President, Anamika, 233/5 J. C. Bose Road, Calcutta-20.	29-9-1976
(6)	Shri Madhav P. Pandit, Secretary, Shri Aurbindo Society, Aurbindo Ashram, Pondichery.	29-9-1976
(7)	Shri R. V. Chandramouli, Secretary, Education Department, Gujarat State, Gandhinagar.	8-10-1976
(8)	Dr. B. N. Sharma, National Museum, New Delhi.	19-10-1976
(9)	Miss Joy Mills, Vice-President, The Theosophical Society, Adyar, Madras-600 020.	3-11-1976
(10)	Svami Satya Prabesh Sarasvati, Retd. Professor of Chemistry, University of Allahabad, Arya Samaj Katra, Allahabad-2.	6-12-1976
(11)	Dr. Lyndner, Businessman, Bamberg, West Germany.	24-12-1976



Sr.No.	Visitors	Date
(12)	Shri C. Sivaramamurti, Retd. Director, National Museum, 40 Shah Jehan Road, New Delhi,	4-2-1977
(13)	Mr. Jion Abe, Ph.D. Student of Poona University, C/o. Nizam Guest House, Bhandarkar Oriental Research Institute, Poona-4.	5-1-1977
(14)	Dr. K. C. Nambiar, Professor and Head, Department of Extension Services, Central Institute of English and Foreign Languages, Hyderabad.	4-2-1977
(15)	Shri Rameshchandra Mohan, Director, Central Institute of English and Foreign Languages, Hyderabad.	4-2-1977
(16)	Dr. Slavka Frankova, Institute for Clinical and Experimental Medicine, 14622 Prague, Czechoslovakia.	5-3-1977

## CHAPTER XIX—COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

Sr. No.	Year/Class	Men	Women	Total
(1) Diploma Courses :				
	1st Year Diploma	215	134	349
	2nd Year Diploma	77	80	157
	3rd Year Diploma	32	48	80
	4th Year Diploma	30	36	66
	5th Year Diploma	36	29	65
	Total	390	327	717
(2) Degree Courses :				
	1st Year B.Mus.	19	16	35
	2nd Year B.Mus.	10	10	20
	3rd Year B.Mus.	4	9	13
	4th Year B.Mus.	5	6	11
	Total	38	41	79
(3) Post-graduate Degree Courses :				
	Junior M.Mus.	2	4	6
	Senior M.Mus.	3	1	4
	Total	5	5	10
(4) Ph.D.				
		3	1	4
	Grand Total	436	374	810

### 3. Staff

#### (1) Present Position :

The staff of the College consisted of One Professor, One Hon. Professor, 3 Readers, 31 Lecturers, One Part-time Ustad, 5 Table Accompanists, One Temporary Teacher in Mrudanga and 9 Class III and 11 Class IV employees.

#### (2) New Appointments :

Shri Anil H. Vaishnav was appointed as Lecturer in Vocal Music.

#### (3) Teachers upgraded to higher positions :

Ten Assistant Lecturers in the College were upgraded and appointed as Lecturers.



(4) *Teachers who left the University :*

Sarvashri N. S. Sinnerker and A. B. Pathan, Lecturers in Vocal Music and in Sitar respectively left the University on retirement.

## 4. Professional Growth of the Staff

(1) Shri Y. D. Kelkar, Lecturer in Dramatics was awarded a travel grant for attending the Kala Academy of Goa, Daman and Div State at Goa, Panjim from 23-5-1976 to 22-6-1976.

(2) Professor R. C. Mehta, Professor of Music attended the Golden Jubilee Conference of the Music Academy, Madras from 17-12-1976 to 21-1-1977 and submitted a paper on "Bharat's Raga Theory and E Hamlick's Theory of the Beautiful in Music."

## 5. Library :

The College Library remains open from 9-00 a.m. to 12-00 noon and from 5-00 p.m. to 8-00 p.m. on all working days. The details regarding the average daily attendance of students and teachers in the Library and for the Reading Room and the number of books issued to them are as under:

Sr. No.	Particulars	Number
(1)	Average number of students making use of the Library and /or the Reading Room daily	152
(2)	Average number of teachers making use of the Library and /or Reading Room daily	27
(3)	Total number of books issued to students during the year	6,008
(4)	Total number of books issued to teachers during the year	3,456

The following are the figures about the stock and the expenditure on the Library and for the Reading Room :

Sr.No.	Particulars	Number	Cost in Rs. P.
(1)	Books (including back numbers of Journals) as on 1-4-1976	7,707	65,361-90
(2)	Books written off during the year	—	—
(3)	Books added during the year	221	3,792-10
(4)	Books as on 31-3-1977	7,928	69,154-00
(5)	Journals subscribed during the year	21	1,012-15
(6)	Amount spent on binding during the year	—	210-50
(7)	Total amount spent for Library and/or Reading Room during the year	—	5,014-75

## CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA

## 1. Course of Studies

(1) The regular full time courses of studies remained the same as in the previous year.

(2) The Institute introduced part-time courses of short duration (one semester) for learning of meaningful stotras for Classical Sanskrit literature related to different cults and sects—viz—Shiva, Vishnu, Krishna, Rama, Devi, etc. and some practical courses of Jyotish, Ayurveda, Karmakanda, and Veda recitation.

This year, the following new experiments were undertaken :

(i) Geeta Class (Childran Section), (ii) Geeta Class (Adult Section), (iii) General Jyotish, (iv) General Palmistry, (v) General Ayurveda, (vi) Rigved—Elementary Karmakand, (vii) Samaveda and (viii) Yajurveda Yagniki Karmakand.

## 2. Number of Students

Number of students enrolled in various classes during the year 1976-77 was as under :

Course	Men	Women	Total
(1) <i>Pratham Kaksha (Certificate)</i>			
1st Year	63	1	64
2nd Year	24	1	25
3rd Year	9	—	9
Total :	96	2	98
(2) <i>Madhyam Kaksha (Visharad) :</i>			
(i) <i>Vyakaran Shastra :</i>			
1st Year	6	—	6
2nd Year	3	—	3
3rd Year	1	1	2
4th Year	—	—	—
5th Year	1	1	2
(ii) <i>Jyotish Shastra</i>			
1st Year	10	—	10
2nd Year	5	—	5
3rd Year	7	1	8
4th Year	2	—	2
5th Year	1	—	1
Total :	36	3	39



Course	Men	Woman	Total
(3) Uttam Kaksha Shastri :			
(i) Vyakaran Shastra:			
1st Year	—	—	—
2nd Year	1	1	2
(ii) Jyotish Shastra:			
1st Year	1	—	1
2nd Year	1	—	1
(iii) Dharma Shastra:			
1st Year	1	—	1
2nd Year	2	—	2
(iv) Sahitya Shastra:			
1st Year	1	—	1
2nd Year	1	1	2
(v) Voluntary English:			
1st Year	—	—	—
2nd Year	1	—	1
Total:	9	2	11
(4) Uttam Kaksha Achary:			
(i) Vyakaran Shastra:			
1st Year	1	—	1
2nd Year	1	—	1
(ii) Jyotish Shastra:			
1st Year	—	1	1
2nd Year	—	—	—
(iii) Dharma Shastra :			
1st Year	—	—	—
2nd Year	1	—	1
(iv) Sahitya Shastra :			
1st Year	3	—	3
2nd Year	2	—	2
Total :	8	1	9
(5) Vachaspati	1	—	1
Grand Total :	150	8	158

## Evening Part-time Students :

	I Semester	II Semester
(i) Geeta Class ( Children Section )	20	23
(ii) Geeta Class ( Audit Section )	33	20
(iii) General Jyotish	33	38
(iv) General Palmistry	65	42
(v) General Ayurveda	21	17
(vi) Rigveda	2	1
(vii) Samaveda	7	10
(viii) Yajurveda Yajniki	30	28
Total	211	179

## 3. Staff

## (a) Present Position :

During the year under report, the staff of the institution consisted of the Principal, 13 Adhyapakas, 2 Gurus, 2 Class III and 4 Class IV employees.

## (b) New Appointments :

- (i) Shri M. V. Kotulkar Teaching Assistant in Dharma Shastra  
(ii) Shri P. Parikh Teaching Assistant in English  
(iii) Shri N. C. Shukla Part-time Teacher in Jyotish Shastra  
(iv) Shri L. K. Godse Guru in Shukla Yajurveda  
(v) Shri M. H. Oza Guru in Samaveda

## (c) Teachers who left the University

- (i) Shri S. Y. Mishra, Pradhyapaka in Vyakaran Shastra  
(ii) Shri L. G. Shukla, Pradhyapaka in Sahitya Shastra  
(iii) Shri J. B. Shukla, Upadhyapaka in Yujurveda

## 4. Professional Growth of the Staff

## (a) Publication by the Members of the Staff :

The following research articles by members of the staff were published in the annual issue of Surabharti, 1976-77 :

Name of the Contributor	Title
(1) Dr. P. K. Dongre	१. महाविद्यालय भवन। भवन निर्माण योजना।
(2) Shri S. Y. Mishra	१. सम्प्रदायीयम्।
(3) Shri L. G. Shukla	१. शारदाष्टकम्। २. अवतर हे भगवन्।
(4) Dr. J. R. Pathak	१. काव्य विषयक विमर्शः।
(5) Shri V. B. Prakashkar	१. वन्दना। २. आचार्योपासकम्।
(6) Shri J. B. Shukla	१. सत्यं शिवं सुन्दरम्।
(7) Shri P.-S. Shukla	१. लकारार्थ लङ्कार विचारः।



## (b) Extension Lectures :

Sr. No.	Lecturer	Subject	Date
(1)	Dr. P. K. Dongre	भारतीय संस्कृतो वेदाभ्यासस्य महत्त्वम् ।	7-8-1976
(2)	Shri J. B. Shukla	वदेषु सदाचरिष्वपेक्षः ।	25-8-1976
(3)	Shri V. B. Prakashkar	स्तोत्र साहित्ये सौन्दर्यलहरीः स्थानम् ।	27-11-1976
(4)	Shri P. S. Shukla	प्रयोग विज्ञानम् ।	4-12-1976
(5)	Shri N. C. Shukla	ज्योतिषे ज्ञानकालक्षारस्य वैशिष्ट्यम् ।	24-12-1976
(6)	Shri M. V. Kotulkar	सदाचार विचारः ।	19-2-1977

## 5. Extra Curricular Activities :

(1) Sanskrit Day Celebration :—The Sanskrit Day was celebrated on 12-8-1976 under the presidentship of Swami Shivanandji Maharaj of Atmajyoti Ashram, Baroda.

(2) Microphone and Loudspeaker Opening Ceremony : The Mahavidyalaya was presented with a Microphone and Loudspeaker by the M. S. University Karmachari Mandal on 2-9-1976.

(3) Elocution Competition :—Elocution in Sanskrit was arranged on 18-2-1977, for the award of the Medal of Sharada Peeth Jagadguru Shankaracharya Shri Abhinay Sachidanand Tirthji Maharaj.

## 6. Publications :

The fourteenth issue of "SURABHARATI" in Sanskrit was published with the co-operation of the members of the teaching staff and students.

## 7. Library :

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

Sr. No.	Particulars	Number
(1)	Average number of students making use of the Library and/or the Reading Room daily.	40
(2)	Average number of teachers making use of the Library and/or the Reading Room daily.	16
(3)	Total number of books issued to students during the year	—
(4)	Total number of books issued to teachers during the year.	400

The following figures show the stock and expenditure on the Library and Reading Room during the year:

Sr. No.	Particular	Number	Cost in Rs.
(1)	Books (including back number of journals) as on 1-1-1976	5209	19878-91
(2)	Books written of during the year	—	—
(3)	Books added during the year	206	1994-63
(4)	Books as on 31-3-1977.	5415	21873-54
(5)	Journals subscribed during the year	1	31-00
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for Library and or Reading Room during year.	—	2025-63

## 8. Lectures under Extra Mural Grant

Sr. No.	Name of the Lecturer	Date	Subject
(1)	Shri Narhari Shastri Thatte,	27-12-1976	पाणिनि व्याकरणम् ।
(2)	Shri S. V. Bhattbhatt	8-1-1977	मीमांसाशास्त्रस्य व्यावहारिकम् ।
(3)	Shri N. S. Yajnik	3-2-1977	प्राच्यविद्याविमर्शः ।
(4)	Shri Mahashankar N. Trivedi	21-3-1977	शिवं ज्योतिः ।

## 9. Visitors

The following persons visited the Institute :

(1)	Pandit Shri Narayane Shastri Oza Principal, Ambaji Sanskrit Pathashala, Ambaji	22-4-1976
(2)	Hon. Shri K. K. Shah Ex. Governor, Tamilnadu State	4-10-1976
(3)	Pandit Laxmikant P. Jambhorkar Sanskrit Vidya Mandir, Poone	25-11-1976
(4)	Pandit Vidya Vachaspati Dattatraya Maharaj Kavishwar Shastriji, President, Shri Datta Sampradaya Nivasa, Poone	18-12-1976



## CHAPTER XXI—PREPARATORY UNIT—ARTS AND COMMERCE

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

The number of students enrolled in different classes at the commencement of the year 1976-77:

Class	Men	Women	Total
( i ) Preparatory Arts	715	365	1080
( ii ) Preparatory Commerce	553	397	950
Total	1268	762	2030

### 3. Staff

There are on the staff of the Unit, a Head, 2 Teacher Supervisors, 7 Class III and 7 Class IV employees. The teaching work was shared by the teachers drawn from the Faculties of Arts, Commerce and Science and the Department of General Education.

### 4. Students Activities

Students of this Unit participated in various activities, such as Cultural Programmes, Inter-Faculty Sports Competitions, Debates, Tours, Boating, Swimming etc.

## CHAPTER XXII—PREPARATORY UNIT—SCIENCE

### 1. Courses of Studies

The courses of studies remained the same as in the previous year.

### 2. Number of Students

During the year there were 987 men students and 209 women students. The total number of students was 1196.

### 3. Staff

There are on the staff of the Unit, a Head, one Teacher Supervisor, five Class III and seven Class IV employees. No separate teaching staff is appointed for this Unit but members from different departments in the Faculties of Science and Arts teach the students.

### 4. Guidance Classes

The guidance classes were conducted this year also. During the first term there were 220 students and 245 in the second term.



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

1. Courses of Studies

The courses of studies remained the same as in the previous year.

2. Number of Students

Year/Class	Men	Women	Total
(1) Preparatory Arts	96	19	115
(2) Preparatory Science	119	8	127
(3) Preparatory Commerce	214	30	244
Total :	429	57	486
(4) F.Y.B.A.	60	19	79
(5) S.Y.B.A.	31	5	36
(6) T.Y.B.A.	29	15	44
Total :	120	39	159
(7) F.Y.B.Com.	225	29	254
(8) S.Y.B.Com.	104	12	116
(9) T.Y.B.Com.	110	9	119
Total :	439	50	489
Grand Total:	988	146	1134

3. Staff

(a) Present Position:

During the year, the staff of the College consisted of one Principal, 26 Lecturers, 4 Part-time Teachers, one Physical Instructor, 17 Class III and 14 Class IV employees.

(b) New Appointments:

Sr.No.	Name	Designation	Date of Joining
(1)	Shri D. K. Oza	Lecturer in Economics	2-7-1976
(2)	Shri J. A. Patel	Lecturer in Statistics	1-7-1976
(3)	Shri M. B. Majmudar	Lecturer in Accounts	1-7-1976
(4)	Shri H. N. Parikh	Temporary Teaching Assistant in Commerce	16-7-1976

4. Professional Growth of the Staff

(a) Published Articles/Papers in India and/or Foreign Journals of Merit :

Name	Articles	Journal
(1) Dr. L. M. Desai	(i) Bhagwati Shree Arvindadevina Bhakti Geeto	"Veenela Moti" October, 1976
	(ii) Sahapas ( Venibhai Purohit— Bal Mukund Dave)	"Swadhyay" October, 1976

(b) Published Books and Brochures :

Name	Name of the Books published with Month of Publication/Project if any
Dr. R. D. Pathak ( Joint Editor )	Gold in Down, Vol. I, Shri Aurobindo Society, Baroda, 1976

(c) Attendance at Conference, Symposia, Seminar :

(1) Dr. R. D. Pathak attended a symposium on 'Problems of Modern Education' at Nargol, Dt. Bulsar on 6th November, 1976 and the World Union International Fifth Triennial Conference at Pondicherry from 8th to 10th January, 1977

(d) Participation in Inservice Programme :

Name of the Teacher	Programme	Capacity in which participated
Shti P. M. Shah	Short-term Course on "LASER TECHNOLOGY" from 12-1-1977 to 21-1-1977, organised by M/s. Jyoti Ltd., Baroda	Participant

5. College Library

The College has a separate Library. It received from the University a grant of Rs. 3,000/- for Books, Rs. 2,200/- for Periodicals and Rs. 855/- for Binding charges. The working hours of the College Library are from 8-00 a.m. to 5-30 p.m. on all working days, from 8-00 a.m. to 3-00 p.m. on Saturdays. During examination session, facilities for reading are provided from 8-00 a.m. to 8-00 p.m. daily.



( i ) Average number of students making use of the College Library and/or the Reading Room daily	525
( ii ) Average number of teachers making use of the College Library and/or the Reading Room daily	35
( iii ) Total number of books issued to students during the year	32,000
( iv ) Total number of books issued to College Teachers during the year	7,450

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

Particulars	Number	Cost in	
		Rs.	P.
( i ) Books ( including back numbers of Journals ) as on 1-4-1976	8,414	1,10,954	88
( ii ) Books written off during the year	—	—	—
( iii ) Books and back numbers of Journals added during the year	277	5,843	67
( iv ) Books and back numbers of Journals as on 31-3-1977	8,691	1,16,798	55
( v ) Journals subscribed during the year	47	2,199	30
( vi ) Amount spent on Binding during the year	—	855	00
( vii ) Total amount spent for Library and/or Reading Room during the year	—	8,897	97

#### 6 Faculty Publication

The College Magazine ' Spandan ' was published during the year.

#### 7. Visitors

( 1 ) Shri K. K. Shah	4-10-1976
Ex Governor, Tamilnadu State	
( 2 ) Shri F. P. Gaekwad	8-3-1977
Chancellor,	
M. S. University of Baroda	

## CHAPTER XXIV—POLYTECHNIC

### 1. Courses of Studies

( 1 ) The courses of studies remained the same as in the previous year.

New Courses

Post-graduate Diploma Courses in ( a ) Construction ( civil ) Engineering ( b ) Refrigeration and Air-Conditioning and ( c ) Automobile Engineering were started during the year

### 2. Number of Students

#### ( A ) Regular Diploma Courses :

	Men	Women	Total
( 1 ) Civil Engineering	402	—	402
( 2 ) Mechanical Engineering	350	—	350
( 3 ) Electrical Engineering	258	—	258
( 4 ) Production Engineering	139	—	139
( 5 ) Industrial Electronics	105	1	106
Total :	1254	1	1255

#### ( B ) State ( Extended ) Diploma Courses :

	Men	Women	Total
( 1 ) Civil Engineering	88	—	88
( 2 ) Mechanical Engineering	206	—	206
( 3 ) Electrical Engineering	133	—	133
Total :	427	—	427

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

	Men	Women	Total
( 1 ) Combined Courses	43	—	43
( 2 ) Technology of Processing of Oil and Gas	37	—	37
( 3 ) Technology of Production of Synthetics Resins and Plastics.	43	—	43
( 4 ) Technology of Production of Fertilizers and Acids	35	—	35
Total :	158	—	158

( D ) Post Diploma Diploma in Construction ( Civil ) Engineering	9	—	9
( E ) Post Diploma Diploma in Refrigeration and Airconditioning	9	—	9
( F ) Post Diploma Diploma in Automobile Engineering	4	—	4
Total :	22	—	22

Grand Total: 1861 1 1862



## 2. Staff

## (a) Present Position :

The staff of the Polytechnic as on 31-3-77 consisted of One Principal, 5 Readers, 75 Lecturers, 7 Senior Instructors and 1 Assistant Lecturer.

## (b) New Appointments :

(1) Shri H. V. Pathak Lecturer in Applied Mechanics 29-6-1976

## (c) Teachers upgraded to higher positions :

Sr. No.	Name of the Teachers	Previous Designation	Present Designation	Date
(1) Shri R. J. Shah	}	Senior Instructors in Chemical Engineering	Lecturers in Chemical Engineering	31-7-1977
(2) Shri R. P. Patel				
(3) Shri K. D. Shah	}	Senior Instructors in Mechanical Engineering	Lecturers in Mechanical Engineering	8-10-1976
(4) Shri N. S. Shah				

## 3. Professional Growth of the Staff

## (a) Papers presented to All India Level Seminars/Conference etc. :

Name of the Teacher	Name, Place and Date of Conference/Seminar etc.	Title of the Paper presented
(1) Sarvashri K. Ethirajulu and Shri R. P. Patel	Seminar on Utilization of Waste from Chemical Industries, Delhi, 14-15 November, 1976.	Utilization of Waste Methyl Benzoate from I.P.C.L.
(2) Shri A. G. Telpande	Seminar on Industrial Development, Nagpur, 13th January, 1977	Possibilities of Oxidizing Durene to PMDA
(3) Shri K. Ethirajulu	IIIRD National Symposium on Catalysis, Dehradun, 24-26 March, 1977	Chemisorption of propylene over $TiO_2$ , $MoO_3$ & $Ti-MO$ Systems by the Thermodesorption Method

## (b) Participation in In-service Programme :

Name of the Teacher	Programme, Place and Dates	Capacity in which Participant
(1) Shri A. M. Shah	Short-term Training Programme in Semi-Conductor Devices and Circuits, Allahabad Polytechnic, 17-1-1977 to 29-1-1977	Teacher Participant
(2) Sarvashri S. M. Moghe and V. Y. Sane	Summer School in Electronic Control Systems, Walchand College of Engineering, Sangli, 7-6-1976 to 26-6-1976	Participants
(3) Shri C. K. Parmar	(i) Short-term Training Programme in Repair Maintenance of Electrical Machines, at G. B. Pant Polytechnic, New Delhi, 21-3-1977 to 31-3-1977 (ii) Summer School in Electrical Machinery & Control including Installation and Maintenance, M.E.I. Polytechnic, Bangalore, 31-5-1976 to 27-6-1976	Teacher Participant Participant
(4) Shri R. M. Bhagia	(i) Summer School in Solid Mechanics, Indore, 31-5-1976 to 26-6-1976 (ii) Short-term Training Course in Educational Management, 11-9-1976 to 16-9-1976	Participant Participant
(5) Sarvashri J. R. Shah, B. N. Shah, H. R. Shah, P. K. Panchal and P. N. Shah	Summer School in Water Treatment and Distribution, Baroda, 3-5-1976 to 15-5-1976	Participants



#### 4. Activities of newly established and special type of Centres/University in Polytechnic :

Commercial Testing Work has been started in the Applied Mechanics Department as per rules fixed for the same.

#### 5. Library

##### (A) Acquisition Notes :

##### Books :

Books were purchased from the recurring grant or Rs. 10,000/-.

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

	<i>Books including bound periodicals</i>	<i>Total Value in Rupees</i>
(1) Number at the beginning of the year	16,373	2,79,202-70
(2) Number added during the year	452	9,189-48
(3) Number withdrawn from the record	83	975-00
(4) Number remaining at the end	16,742	2,87,417-18

##### (B) Periodicals :

During this year the library subscribed to 42 periodicals. The total amount spent for the subscription of the periodicals was Rs. 4,503-41 and the amount spent for binding was Rs. 1,821-25.

##### (C) Circulation of Books etc.

(1) The working hours of the library for the whole academic year were from 8-00 a.m. to 8-00 p.m. on all days except on Sundays and Holidays, while for the month of May and June the timings were from 11-00 a.m. to 5-30 p.m.

(2) Statistics for the use of the Library are given below :

(i) Daily average number of readers making use of the library	245
(ii) Average issue of books for Home Reading per day	55
(iii) Average issue of books for Reading Room per day	28
(iv) Total number of students registered	1,367

#### 6. Important Academic Activities

A Summer School on 'Water Treatment and Distribution' was conducted at the Polytechnic from 3-5-1976 to 15-5-1976 under the Co-ordinatorship of Professor R. C. Patel, Ex-Principal, Polytechnic. The Summer School was sponsored and financed by I.S.T.E., Madras.

### CHAPTER XXV—CENTRE FOR CONTINUING ADULT EDUCATION AND COMMUNITY SERVICES

#### 1. Programmes and Activities

The educational activities undertaken during the current year 1976-77 are given below:

(1) The Centre conducted the following Summer Courses:

<i>Sr.No.</i>	<i>Title of the Course</i>	<i>Duration</i>	<i>Enrolment</i>
(i)	Interior Decoration	Four Weeks	29
(ii)	Light Music	One Month	17
(iii)	Foreign Exchange	15 Days	8
(iv)	New Mathematics	One Week	12
(v)	Screen Printing	Two Weeks	13
			79

(2) Part-time Post-graduate Certificate Course in Marketing Management was started in September, 1976 and 65 participants were enrolled.

(3) Part-time Post-graduate Certificate Course in Tax Management was started in September, 1976 and 13 students were enrolled.

(4) Two batches of Effective Speaking Course were arranged in the months of May-June and August-September, 1976. Total enrolment of students was 40.

In the year 1976-77, 192 certificates were distributed.

#### 2. Future Programmes

The following Courses are approved for the year 1977-78:

<i>Course</i>	<i>Duration</i>
(i) Product Engineering	12 Months
(ii) House-keeping	13 Weeks
(iii) Hotel Reception and Book-keeping	13 Weeks
(iv) Traditional Embroidery of India	4 Weeks
(v) Japanese Style of Flower Decoration	4 Weeks
(vi) Cookery Course	3 Months

#### 3. Staff

The Centre has one Reader, one Teaching Assistant, one Head Clerk, one Typist, one Daftari and one Peon.



#### 4. Professional Growth of the Staff

- (1) Dr. (Kum.) Malathi Chakravorty attended the following Conferences:
- (i) 29th All India Adult Education Conference at Mysore from 15th to 18th October, 1976 and presented a paper on 'Continuing Education in M. S. University'.
  - (ii) National Seminar and National Conference on Education for Integrated Rural Development at Delhi from 15th to 20th December, 1976.
  - (iii) 52nd Annual Meeting of the Association of Indian Universities at Coimbatore on 16th and 17th January, 1977.
- (2) Dr. (Kum.) Malathi Chakravorty was deputed to go to Nagpur from 23rd August to 2nd September, 1976, with a team nominated by ICAR for selection of site for Krishi Vigyan Kendra.

#### 5. Visitor

Dr. Alan Rogers,  
Nottingham University,  
England.

1st to 10th April, 1976

### CHAPTER XXVI—SHRIMATI HANSA MEHTA LIBRARY

#### 1. Acquisition Notes

##### (1) Books:

The University Grants Commission sanctioned a further grant of Rs. 15,00,000/- for purchase of Books and Journals under the Fifth Five Year Plan period. This amount is sanctioned in addition to the basic grant of Rs. 5,00,000/- sanctioned in the beginning of the Fifth Plan period and completely utilized in the year 1975-76.

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

<i>Institution</i>	<i>Number of Books</i>
(i) Smt. Hansa Mehta Library (which includes books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science, Prep. Unit—Arts and Commerce and Science and the Centre for Continuing/Adult Education and Community Services).	5,302
(ii) General Education Department	—
(iii) Faculty of Technology and Engineering	2,291
(iv) Faculty of Fine Arts	112
(v) Faculty of Social Work	106
(vi) College of Indian Music, Dance and Dramatics	221
(vii) Oriental Institute (Printed Section)	600
(viii) Polytechnic	452
(ix) Sanskrit Mahavidyalaya	191
(x) Centre of Advanced Study in Education	326
(xi) M. K. Amin Arts and Science College and College of Commerce, Padra	367
<b>Total</b>	<b>9,968*</b>

\* This includes 1,484 books received as gift.



The following statement gives the details of the book stock of Smt. Hansa Mehta Library during the year :

	<i>Books</i>	<i>Bound Vols. of Periodicals</i>	<i>Manuscripts</i>	<i>Maps, Charts etc.</i>	<i>Total value in Rs.</i>
( i ) Number at the beginning of the year	2,75,839	40,091	248	868	66,81,015-31
( ii ) Number added during the year	5,302	1,175	—	—	4,57,121-87
( iii ) Number withdrawn from the records	—	—	—	—	—
( iv ) Number remaining at the end of the year	2,81,141	41,266	248	868	71,38,137-18

( 2 ) *Periodicals:*

The total number of periodicals and scholarly journals subscribed to was 717 and 1,171 volumes of bound periodicals were added to the stock.

2. *Cataloguing Section*

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

( A ) Books classified and Catalogued during the year :

( i ) New accessions to University Library	5,302
( ii ) New accessions to the Faculty Libraries	4,666
	Total
( iii ) Bound periodicals catalogued and classified	9,968
	1,175

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

	<i>For University Library</i>	<i>For Faculty Libraries</i>	<i>Total</i>
( i ) Cards typed	15,906	23,330	39,236
( ii ) Cards filed in the catalogue	15,906	23,330	39,236

3. *Circulation Section*

As usual the working hours of the Library for the whole academic year i.e. from April, 1976 to March, 1977 ( except in the months of June and July ) were from 8.00 a.m. to 10.00 p.m. It also remained open on almost all Sundays and Holidays during the academic year. In the months of June and July, the Library remained open 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 except Sundays and Holidays.

This year also from January, 1977 the Central Hall Reading Room of the Baroda College Building was kept open from 8.00 a.m. to 11.00 p.m. for the use of F.Y. students in Arts, Commerce and Science, etc. This reading room accommodates 225 readers and contains all the prescribed and recommended books for the F.Y. students. It remained open even on Sundays and Holidays.

The cellar of General Education Building was kept open for reading purpose for the students of Preparatory in Arts, Commerce and Science from 8.00 a.m. to 10.00 p.m. in the months of April, 1976 and March, 1977. It could not be opened for the rest of the year as the Cellar had to be cleared off the water and mud that had entered during the flood, and because the furniture and fittings were to be repaired.

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

( i ) Post-graduate students	1,390
( ii ) Under-graduate students	6,794
( iii ) Research Scholars, Assistants, Fellows	77
( iv ) University Teachers	511
( v ) Others	498
	Total
	9,270

The statistics of the use of Library are as under :

( i ) Daily average number of readers visiting the Library	2,500
( ii ) Daily average number of readers visiting the Central Hall Reading Room of the Baroda College Building	225
( iii ) Daily average number of readers visiting the Reading Room of the General Education Building i.e. Cellar	200
( iv ) Total number of books issued per day for reading	1,222
( 1 ) Average number of books issued per day for Home reading from General Collection	251



(2) Average number of books issued per day from Curricular Collection	452
(3) Average number of books issued per day from the Central Hall Reading Room	31
(4) Average number of books issued per day from the Reading Room of the General Education Building i.e. Cellar	24
(5) Average number of books issued per day for reference from Stacks	464
(v) Average number of books issued per reader in the year	38

#### 4. Reference Section

##### (1) Reference Service to Readers :

The Reference Section conducted a number of activities such as answering queries of readers personally, by correspondence, providing guidance to students and teachers for the better use of library's resources, etc.

##### (2) Orientation Programme :

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

##### (3) Exhibitions :

During the period under review the exhibitions of books, pamphlets and photographs on the following topics and persons were arranged :

##### (a) Special Exhibitions :

(i) Cricket, (ii) Aurobindo Ghosh, (iii) Buddha and Mahavir, (iv) Development of Technology in India, (v) Public Health and (vi) Animals and Birds.

##### (b) Weekly Exhibitions :

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

##### (4) Bibliographical Activity :

Bibliographies on the following topics were compiled during the period :

(i) Business Management, (ii) Military Science, (iii) Scientific Methodology, (iv) Adult/Continuing Education, (v) Naval Science, (vi) Thomas Hardy, (vii) Fish Culture and Fisheries and (viii) Sindhi Language and Literature.

##### (5) UNESCO Information Centre :

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

##### (6) The National Library Week :

In response to the appeal of Indian Library Association regarding the celebration of the Ninth Library Week, the Reference Section arranged special exhibition of books, pamphlets, photographs etc. on "Documentation".

##### (7) Theses and Dissertations :

(i) During the year, 176 theses and dissertations were added to the collection of 3197, bringing the total collection to 3373. The number of readers who consulted the theses and dissertations was 2112.

(ii) A descriptive list of Ph.D. theses received in the library from January, 1976 to December, 1976 was published.

##### (8) Reference Material :

During the period, 2264 readers consulted the reference books and other reference material.

##### (9) Extension Services :

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

##### (10) Pamphlet Collection :

The following statement gives the details of pamphlet collection in the library :

	17,215
(i) Number at the beginning of the year	91
(ii) Number added during the period	224
(iii) Number withdrawn from the record	17,962
(iv) Number remaining at the end of the period	

#### 5. Teaching of Library Science

Out of forty-five students who appeared at the Bachelor of Library Science Examination, three passed in first division, eleven in second division, eighteen in third division and thirteen failed.



## CHAPTER XXVII—THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA PRESS

### 1. Staff

During the year, the staff of the Press consisted of a Manager, a Deputy Manager, an Assistant Manager, a Head Clerk (Accounts and Stores), one Head Proof Reader, one Proof Reader, one Copy Holder and a Clerk. There were 45 permanent workers in the Press.

### 2. Machinery

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

### 3. Printing Activities

During the year 1,388 plus 403 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, Annual Report, Budget Estimates, Questionnaires, Magazines, Pamphlets, Certificates, Electoral Rolls, General Forms, Prospectus, Hand Book, Pamphlets etc. of the Faculties and Institutions. The Press works purely as a Service Department of the University since April, 1967.

The following is the list of books printed by the Press during the year:

<i>Name of the Book</i>	<i>Publishers</i>
(1) A Study of Economic Profiles of the Scheduled Castes in Gujarat	Department of Economics, Faculty of Arts.
(2) Tairo in the Progress of Textile Industries 1954-1975	Tairo
(3) Vrddha Yavana Jatak Vol. II	Oriental Institute.
(4) Silver Jubilee Souvenir 1975-76	Department of Zoology, Faculty of Science.
(5) Political Geography of India	Department of Geography, Faculty of Science.
(6) Naladavadantirasa	Department of Gujarati, Faculty of Arts.
(7) Economic Benefits of Rural Electrification in Gujarat	Department of Economics, Faculty of Arts.
(8) Nityotsava	Oriental Institute.

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) Swadhyaya ( Quarterly ),
- (5) Pavo ( Half Yearly ),
- (6) Studies in Museology ( Yearly ),
- (7) Baroda Journal of Nutrition ( Half Yearly ),
- (8) Social Work Review ( 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. The Unit purchases and distributes stationery every quarter to all the Faculties and Institutions and the University Office. The Unit consists of one Senior Clerk, one Stationery Clerk, one Rikshaw Driver-cum-Stationery Distributor and one Helper. During the year under report, the stationery articles worth Rs. 2,80,815/- were purchased and stationery worth Rs. 3,20,184/- was distributed.

### 5. University Publication Sales Unit

This Unit is under the control and supervision of the Manager, University Press. The Unit consists of a Senior Clerk, a Clerk and one Outdoor Work Assistant/Attendant. It is working as a book-shop for University Publications. The total sales during the year was Rs. 1,10,134/-.



## CHAPTER XXVIII—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

### 1. Executive Committee

Sarvashri C. D. Amin and A. C. Patel continued to work as President and Treasurer respectively during the year. This year, for the first time in the history of the Union, the whole Executive Committee was nominated by the Patron and Vice-Chancellor of the University. This change has not come in the way of the activities of the Union. But on the contrary, the Union has introduced many new events in various fields during the year. Most of the activities were carried on in such a way as to provide a guideline in respect of planning, coordinating, effective and efficient management for future reference.

The Patron declared the nominated Executive Body on 6th August, 1976 and accordingly Sarvashri Tony Elavia and Prasad Vipradas became Vice-President and General Secretary respectively.

The first meeting of the Executive Committees was held on 20th August, 1976. A committee of the following members was appointed to amend the existing constitution of the Union:

- (1) Shri Prasad Vipradas, Chairman
- (2) Shri Tony Elavia
- (3) Shri Rahul Amin
- (4) Shri Ashok Mehta

The following members were nominated on different Committees of the University for the year 1976-77:

- |   |                             |
|---|-----------------------------|
| (1) University Board of Sports                        | (1) Kumari Lata Gerge       |
|   | (2) Shri S. S. Chawla       |
| (2) University Students' Welfare Board                | (1) Shri Atul Sheth         |
|   | (2) Shri Hemendra Joshi     |
|   | (3) Shri Tony Elavia        |
| (3) University Students' Aid Fund Committee           | (1) Shri Prasad Vipradas    |
|   | (2) Shri Rahul N. Amin      |
|   | (3) Kumari Pushpa Lalwani   |
| (4) Central Advisory Committee for Students' Problems | (1) Shri Prasad Vipradas    |
|   | (2) Shri Laxmansinh Vaghela |
|   | (3) Shri A. K. Roy          |
|   | (4) Shri Satish Mehta       |
|   | (5) Shri H. H. Thakkar      |
|   | (6) Kumari Parul Sanghavi   |
| (5) Advisory Committee for N.S.S.                     | (1) Shri Countinho Albino   |
|   | (2) Shri S. S. Bhavnani     |

Shri Tony H. Elavia was nominated on the Committee of Education and Students Leaders (In Ministry of Education and Social Welfare).

In the working of Union activities, the Executive Members adopted a very economical and efficient way. Fourteen members agreed willingly not to take the blazer. They accepted the crest only.

### 2. VORTEX-76 (All India Cultural Festival)

A remarkable activity of the Union during the year was VORTEX-76. Every year, the Union conducts Inter Faculty Youth Festival. But this time it was decided to conduct a Cultural Festival on All India basis and it was accordingly held on 13th, 14th and 15th December, 1976 under the banner of VORTEX-76. A number of colleges and institutions participated in the Festival. The participants from Delhi, Kharagpur, Jaipur, Ahmedabad, Bhavnagar, Surat have shown active interest in Debates, Music, Discussion, Dance, Skit and Drama Competitions. Most of the Faculties of our University also participated. Prepared English Debate, Skit and Music Competitions were held on 13th December, 1976. Next day Discussion, Hindi Debate, Essay and Drama Competitions were held, while on the last day, Extempore English Debate, G. K. Quiz and Dance Competitions were held and in that evening Prize Distribution function was arranged.

3. All Sectional Secretaries were enthusiastic and took keen interest in various activities.

#### (1) Table Tennis:

(i) A coaching camp in Table Tennis was conducted in the beginning of the year and about 15 players took advantage of this training. (ii) Our Table Tennis Team participated in Open Gujarat Major Ranking Tournament held at Jamnagar in August, 1976 and acquired Men's Team Championship. The team also participated in All India Inter-University Tournament held at Hyderabad in September, 1976 when both the teams (Men and Women) reached upto quarter finals. In State Championship at Ahmedabad in October, 1976, Kumari Smita Dalvi became the State Champion while Shri Prashant Mehta reached Semi Finals. Four of our University players, viz. Shri Prashant Mehta, Shri A. Babi, Kumari Smita Dalvi and Shri Ajay Khaderia represented the Gujarat State in National Championship held at Allahabad in December, 1976, (iii) The Union conducted Inter-Faculty and Open University Tournament from 1st to 3rd December, 1976 in Union Pavilion.

#### (2) Chess:

An experimental Chess Tournament for Ladies was arranged on 26th September, 1976. Open University Chess Tournament was also conducted and a good number of students participated.



(3) *Bridge:*

Open University Bridge Tournament was conducted and response from students was encouraging.

(4) *Carrom:*

For the first time in the history, the Union has conducted Open University Carrom Tournament. There were about 70 participants and the tournament continued for three days with zeal and enthusiasm.

(5) *Badminton:*

(i) In Inter-University West Zone Tournament held at Jodhpur in the first week of October, 1976, our team reached to Semi-Finals.

(ii) In Open Gujarat Tournament held at Surat in the last week of December, our players Shri Pranob Chatterjee and Shri Chand became the Champion in Men's Doubles. In Singles, Shri Pranob Chatterjee reached to Semi-Final while in Mixed Double Shri Bharat Dave and Kumari Jyoti Oza also reached to Semi-Final.

(iii) Our players also participated in All Baroda Open Badminton Tournament and showed a good performance.

(iv) In Open Gujarat Inter-Medical Amateurs Tournament held at Ahmedabad, Shri Hemant Brahmhatt became the Champion of Men's Singles while Shri Hemant Brahmhatt and Shri Hemant Antoni became the Champion of Men's Doubles.

(v) In All India Medical Tournament held at Delhi, our players showed a remarkable performance and acquired the Championship in Men's Singles and Doubles both. It is gratifying to note that Shri Hemant Brahmhatt won two gold medals.

(6) *Discussion:*

A discussion on "The Role of University Students in Indian Society" was arranged on 25th September, 1976. Shri M. P. Pandit, Secretary of Aurobindo Society attended this function and expressed his views also.

(7) *Debates:*

During the year, all Trophy debates were conducted as under:

Name of the Trophy	Subject	Name of the Winner
(i) Shri Balabhai Narayanrao Majmundar Trophy Debate in Hindi	सृष्टि के सर्जन में ब्रह्माने गलती की है	Kumari Mani Mala Jain, Faculty of Arts

Name of the Trophy	Subject	Name of the Winner
(ii) Vice-Chancellor Trophy Debate in English	The home believes in peace at any price	Shri Devendra C. Patel Preparatory Science.
(iii) Shri S. A. Sudhalkar Trophy Debate in Marathi	भाजचे विज्ञान मानवाचे कल्याण करू शकेल ?	Kumari Pradnya Javadekar, Faculty of Arts
(iv) Shri M. N. Wadia Trophy Debate in English	Ban the intellectuals	Shri Tony Elavia, Faculty of Arts
(v) Professor D. Subba Rao Memorial Trophy Debate in English	Extempore	Shri Yogesh Shukla, Faculty of Arts
(vi) Pro-Vice-Chancellor Trophy Debate in Gujarati	भारतना विकास माटे सर्व धर्मोनो विच्छेद थवो जरूरी छे.	Shri Rajanikant J. Darji, M. K. Amin Arts and Science College and College of Commerce, Padra

(8) *Entertainment:*

A musical evening was arranged on 6th October, 1976 at General Education Auditorium. A good number of students participated and presented songs, mimics, jokes etc. On 9th October, 1976, 'Jam Session' was arranged and fairly good number of students enjoyed the eve. The Garba Competition had to be dropped due to inadequate number of entries.

(9) *Film Club:*

Two Films, "Good Bye Columbus" in English and "Aavishkar" in Hindi were screened during the year.

(10) *Hinking Club:*

A tracking programme on bicycles was arranged on 2nd and 3rd October, 1976 at Pavagadh. Fifty students enjoyed the journey. A tracking and rock training camp was arranged in the forest of Saputara from 20th to 27th February, 1977 when 14 students took the training.

(11) *Social Service:*

(i) Youth for Rural Reconstruction Project was undertaken by 38 students at Ankol Village on 26th September, 1976 with a view to treat the patients belonging to Lower Socio-Economic Sector. About 36 patients received treatment after examination.



( ii ) On 3rd October, 1976, a cultural programme was arranged with the cooperation of cultural group of N.S.S.

( 12 ) *Reading Room and Library:*

Newspapers and periodicals were kept in the Reading Room of the Union and a good number of students took advantage. Text-books were also given to poor students.

( 13 ) *Emester:*

Issues of Emester were published during the year. " Workshop of Journalism " was held on 12th and 13th March, 1977 when Shri P. G. Mahadhvan, Shri V. Gangadhar and Shri V. Rammurthy from Times of India graced the occasion.

( 14 ) *Cultural Programme:*

Most of the Faculties participated in VORTEX-76 but all students could not attend the festival due to inadequacy of seating accommodation in the Auditorium. All Faculty items which participated in VORTEX-76 were presented again on 31st January, 1st and 2nd February, 1977.

( 15 ) *Others:*

Our Team of 9 students participated in BITS, Pilani Festival—OASIS-76 and put up a good show.

We are very much proud to mention that Shri Labhshankar M. Joshi of Sanskrit Mahavidyalaya won gold medal in All India Sanskrit Debate held at Ujjain on 5th November, 1976.

#### 4. Constitution

The Constitution Committee studied the existing constitution in details and recommended several amendments and submitted a draft of new constitution to the Patron. However, the time at the disposal was so short that it was not possible to call the General Meeting and as such the work remained incomplete.

#### 5. Donation to Silver Jubilee Fund

This year the Union donated Rs. 25,001/- ( Rupees Twentyfive thousand and one only ) to the Silver Jubilee Fund of the Maharaja Sayajirao University of Baroda.

## CHAPTER XXIX—GENERAL EDUCATION CENTRE

### 1. Facilities

The facilities are available at the Centre for students of the University for Self-learning through audio-visual aids, study of Natural History and for practical Art activities and Appreciation as well as for knowing Electrical Gadgets, their use and minor repairs.

Ample opportunities were also provided to the students for the formation and working of Clubs such as ( 1 ) Dramatics Club, ( 2 ) Film Club, ( 3 ) Listeners' Club, ( 4 ) Science Club, ( 5 ) Speakers' Club, ( 6 ) Writers' Club.

### 2. Teaching Staff

The General Education Centre has a nucleus staff of one Reader and three Lecturers who not only teach General Education and the Pre-University Classes, but also serve as liason and help in the preparation of reading material and organization of the programme.

### 3. Programmes

The activities of the various programmes under the General Education undertaken during the year are as under:

#### ( 1 ) *Practical Art Appreciation:*

Eleven students from the Faculties of Home Science, Technology and Engineering, Science and Arts were registered and given guidance in Drawing and Design, Composition of Human Forms, Print-making, Clay Work, Slides, Painting, Sculptures, etc.

#### ( 2 ) *Film Club:*

As against 8 students registered in Film Club, only two availed of the facility. Films on Science were screened and a note on Film appreciation was given to the students.

#### ( 3 ) *Writers' Club:*

Eight students were registered and were given topics to write essays on different problems of India mainly religious, social and economic. One of the students contributed his articles in Indian Express.

#### ( 4 ) *Speakers' Club:*

Eight students were registered and were given topics for preparing speeches. One of these students took part in Federation and Faculty debates.



(5) *Dramatic Club:*

There were eighteen students in this club. They were given guidance on various topics and phases of drama. They also put up a play 'Police Choki' before the selected audience of students.

(6) *Listeners' Club:*

Three members were registered for this Club.

(7) *Electrical Gadgets Club:*

Eleven students were registered for this Club. They were given guidance on different types of electrical meters, wiring, tube lights, fuses, switches, radio parts, etc.

## CHAPTER XXX—STUDENT WELFARE ACTIVITIES

1. *Halls of Residence*

The University being a residential university makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949, the University had accommodation for 200 men in rented buildings and another 200 men in university owned buildings. There was no hostel accommodation for women students. There are now 12 Halls of Residence for men (one hall i.e. D. N. Hall was discontinued from June, 1976) and 4 Halls of Residence for women.

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. At the end of the year under report 2533 men and 750 women were in residence in different Halls as against 2676 and 771 respectively in the previous year. The annexed statement gives the break-up of these students by Halls and Institutions. In the men's Halls of Residence, there is one honorary warden and in women's Hall one paid full-time Superintendent to look after the residents. The administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and Wardens' Committee.

All Halls have been provided with common rooms which are generally used as Library-cum-Reading Room also. The Halls are also provided with furnished Visitors' rooms. Facilities for Indoor games also exist in the Halls. The Chief Warden's Office has a staff of 9 Class III and 2 Class IV employees.

The Central Committee and the following three Sub-Committees were formed :

- ( i ) Inter-Hostel Food Committee, ( ii ) Inter-Hostel Sports Committee and
- ( iii ) Inter-Hostel Entertainment Committee. The Chief Warden, Halls of Residence was the Chairman of the Central Committee.

The Sports Committee arranged the Inter-Hostel Competitions in different games. The Entertainment Committee organised ( a ) an Inter-Hostel Musical Instrumental Talent Contest and ( b ) a Debate Competition during the year.

Apart from the above-mentioned Committees, each Hall of Residence has its own Executive Committee composed of the student members duly nominated by the Warden of the Halls. These committees worked under the guidance of the wardens. Students participated actively in nearly all matters pertaining to the affairs of the Hall except finance.

During the year, the following changes took place in regard to the appointment of wardens consequent on the resignations of the former ones :



*Former Wardens**Newly appointed Wardens*

- (1) Dr. R. P. Bhatt, Warden, V. S. Hall      Shri H. S. Shelat, Warden, V. S. Hall  
 (2) Shri B. S. Kamble, Warden,      The D. N. Hall has been closed down.  
      D. N. Hall

**2. University Health Centre**

During the year, the staff of the Health Centre consisted of the Medical Officer, one part-time Lady Doctor, One Nurse, One Sanitary Inspector, One Compounder-cum-Clerk, One Laboratory X-ray Technician, One part-time Clerk and three Hamal-cum-Sweepers. In addition there were 2 Honorary Physicians, 1 Surgeon and 1 Lady Gynaecologist. Dr. S. D. Ambegaonkar, Honorary Physician resigned in the month of September, 1976.

Halls of Residence were visited for inspecting maintenance of sanitation and hygiene in both hostels and kitchens. Pamphlets were distributed to the different Faculties and Institutions regarding Health Education of certain skin diseases. Twice in a year the Health education programme was carried out in collaboration with the Faculty of Home Science on the following subjects ;

(1) "Importance of protein in a diet for children" in Class IV Employees' Colony of the University.

(2) "Well-baby show" in a village near Padra on 26-1-1977.

The new entrants were given a Medical check-up by the Medical Inspection Board in S.S.G. Hospital. Out of the total 5624 entrant students scheduled for medical check-up, 4,386 (77.98%) reported. Out of total 4,386 examined, 1,874 (42.72%) were recommended follow-up treatment to be taken either from the Health Centre, specialists of S.S.G. Hospital or the family doctors for various disorders viz. skin, eye, ear, nose, throat, heart etc. Out of 1,874 follow-up students, 1,112 (59.33%) completed their follow-up treatment.

During the year, the total attendance of the patients at the Health Centre Clinic was 30,503 (21,295 students and 9,208 members of the staff and their families). The average daily attendance has been 103.38 during the year. The Health Centre remained open all hours for emergency and the doctors on duty attend the cases of emergency in the Halls of Residence and the residence of the staff members.

The total number of Laboratory investigations were 1,260. The total number of fluoroscopy examinations was 609.

The two City Centres—Raopura and Bajwada and Pratapnagar areas—also continued to provide medical facilities to the employees of the University staying in and round about those areas. The total number of cases registered at these two City Centres was 10,721 in the year 1976-77.

**3. Physical Education**

- (1) Staff: The Staff of the Physical Education Department consisted of One Director, Two Senior or Physical Instructors, One Swimming Trainer, One Boating Trainer and Two Assistant Swimming Trainers.
- (2) Training in Physical Education: Training in Physical Education was imparted to 1974 men and 1499 women students from various faculties and institutions.
- (3) Training and coaching in Games and Sports : (i) Cricket (M and W) (ii) Tennis (M and W) (iii) Hockey (M and W) (iv) Football (v) Kho-Kho (M and W) (vi) Track and Field Events Athletics (M and W) (vii) Kabaddi (viii) Volleyball (M and W) (ix) Basketball (M and W) (x) Throwball (W) (xi) Netball (W) (xii) Swimming (M and W) (xiii) Boating (M and W) (xiv) Shooting and (xv) Cycling.

There were 249 members including men and women students in swimming. In Boating the number was 97 including women students. The special coaching was provided by the honorary coaches and Officers-in-Charge in the games and sports.

A Special Coaching Camp in Basketball for Men and Women students was conducted for 15 days. Shri D. V. K. Pillai, the State Coach coached the teams.

**(4) Participation in Tournaments and Competitions****(a) Inter University Tournaments :**

Sr. No.	Name of the Game	Venue	Result	Remarks
(i)	Athletics (Men)	Varanasi	Reached upto finals	IV place in 100 Running High Jump, Long Jump
	Athletics (Women)	Varanasi	Reached upto finals	—
(ii)	Badminton (Men)	Jodhpur	Reached upto semifinal West Zone	—
(iii)	Basketball (Men)	Bhopal	Reached upto quarter finals West Zone	—
(iv)	Cricket (Men)	Pune	Lost in preliminary round	—



Sr. No.	Name of the Game	Venue	Result	Remarks
(v) Cricket (Women)		Calicut	Reached upto semi-finals	—
(vi) Chess		Nagpur	—	—
(vii) Cycling		Patiala	Two cyclists reached upto finals	—
(viii) Football		Indore	Lost in second round	—
(ix) Hockey (Men)		Ujjain	Lost in second round	—
(x) Kabaddi (Men)		Akola	Reached upto semi-finals	—
(xi) Kho-Kho (Men)		Kolhapur	Reached upto semi-finals	—
(xii) Shooting (Men)		Madras	—	Secured III place in All India Shooting tied with Shivaji University
(xiii) Table Tennis (Men)		Hyderabad	Lost in pre semifinal	—
	Table Tennis (Women)	Hyderabad	—	—
(xiv) Tennis (Men)		I. I. T. Bombay	Lost in preliminary round	—

(b) *Participation in State Championships :*

(i) Athletics (Men) (Women) : Participated in Gujarat State Athletic Meet held at Ahmedabad. Shri Jude D'souza stood II in 100 and 200 mts. running. Kum. Saraswati Rajput stood I in long jump. Kum. Barnadine Fernandez stood I in High Jump and 100 mts. Hurdles.

(ii) Basketball : (Men) Participated in Gujarat State Basketball tournament held at Itola and lost in Quarter finals. (Women) lost in preliminary round.

(c) *Participation in other Tournaments :*

Sr. No.	Games	Winners	Runners-up
(i) Basketball (Women)	Mahajan Tournament at Itola	Shakti Dal	Runners-up
(ii) Football	(i) Baroda District League Tournament	Secured Championship	
	(ii) Air Force Tournament	Lost in Semi-Finals	

Sr. No.	Games	Winners	Runners-up
(iii) Athletics	Baroda District Athletic Meet	(i) Kum. S. Rajput stood first in Long Jump	
		(ii) Kum. B. Fernandez stood first in High and 100 mts. Hurdles	
(iv) Boating	Baroda Jaycee's Tournament	Gave good performance	
(v) Basketball (Men)	Baroda District Basketball Tournament at Baroda Refinery	Runners-up	
(vi) Basketball (Women)	Baroda District Basketball Tournament at Baroda Refinery	Runners-up	
(d) <i>Inter-Faculty Tournaments :</i>			
(i) Athletic (Men)	Shri J. D'Souza of the Polytechnic	Individual Champion	
	Athletic (Women)	Kum. B. Fernandez	Individual Champion
(ii) Basketball (Men)	Commerce Polytechnic	Winners	Runners up
(iii) Boating (Men)	Shri N. M. Chauhan of Technology and Engineering	Individual Champion	
	Boating (Women)	Kum. R. Chavan of Medical College	Individual Champion
(iv) Cricket (Men)	} Technology and Engineering Science	Winners	
(v) Hockey (Men)		Runners up	
(vi) Tennis (Men)			
(vii) Football	Technology and Engineering Polytechnic	Winner	Runners-up
(viii) Swimming (Men)	Shri M. M. Vaidya of Pre-Science	Individual Champion	
(ix) Volleyball (Men)	Technology and Engineering Pre-Science	Winners	Runners-up



(5) *Physical Fitness Test*

The Physical Fitness Test was introduced this year among the Physical Education Classes for men and women, alongwith the Intramural Competitions as under :—

Test for Women : Running 100 metres, Running 200 metres, Running Broad Jump, Putting the Shot and Skipping on the Spot.

Test for Men : Running 100 metres, Putting the Shot, Running Broad Jump, Pull-ups and Running 800 metres.

The National Physical Efficiency Test was conducted on 28th December, 1976.

(6) *Other Important Events :*

The following students were selected for National Competitions :

Sr. No.	Game	Name	Tournaments
( i ) Hockey (Men)		Sarvashri D. S. Pawar, B. S. Rana and V. Desai	To represent Gujarat State in Junior National Championship at Madras
( ii ) Volleyball ( Women )		Kum. D. Menthia and Malathi Bhatt	To represent Gujarat State in National Championship at Calcutta
( iii ) Athletics		Shri J. D'Souza	To represent combined University Team at Chandigarh. Also selected for attending the Coaching Camp at Patiala. To represent Gujarat State in National Championship at Madras.
( iv ) Basketball ( Men )		Sarvashri H. Chudasama and A. Modi	For Summer Coaching-cum-Competition Programme at Patiala.
( v ) Basketball ( Women )		Kum. H. Ramanuj	
( vi ) Football		Shri H. Ginwala	Selected as Reserve in Football to represent West Zone University Team.

Sr. No.	Game	Student	Tournaments
(vii) Basketball		Sarvashri H. Chudasama and A. Modi	Selected as Reserve in Basketball to represent West Zone University Team.
(viii) Hockey		Sarvashri Y. Patel and R. N. Mulek	Selected as reserve in Hockey to represent West Zone University Team.
( ix ) Athletics		Shri J. D'Souza	Selected to attend Summer Coaching cum-Competition Programme at Patiala.

Shri D. B. Naikwade has been adjudged as the Best Cricketer of the year in the M. S. University to receive the Ranji Centenary Award for the year 1976 77.

In October, 1976 the Department organized a Camp in Physical Education and Recreation for the candidates of Baroda Citizens Council.

4. *National Cadet Corps*

During the year under report, the strength of the NCC Units was as under :

Unit	NCC Officers	NCC Cadets
( 1 ) 3 Gujarat Battalion NCC	3	105
( 2 ) 12 Gujarat Battalion NCC	3	290
( 3 ) 1 Gujarat Compo Tech. Regt. NCC	3	150
( 4 ) 5 Gujarat Girls BN NCC	2	370
( 5 ) 2 Gujarat Naval Unit NCC	4	200
( 6 ) 1 Gujarat Air Sqn. NCC	1	200

Training of all the units started in July, 1976 and terminated in February, 1977.

(2) *Annual Training Camps.*

The strength of NCC Officers and cadets who attended various Annual Training Camps is shown as under ;



Sr. No.	Name of the Units	Strength	
		Officers	Cadets
(i)	3 Gujarat Battalion NCC	2	60
(ii)	12 Gujarat Battalion NCC	3	86
(iii)	1 Gujarat Compo Tech. Regt. NCC	1	18
(iv)	1 Gujarat Air Sqn. NCC	1	47
(v)	2 Gujarat Naval Unit NCC	1	40
(vi)	5 Gujarat Girls BN NCC	2	80

## (3) Camps/Courses

The following number of Officers/Cadets attended the various Camps/Courses during 1976-1977 :

Camp/Course	Number attended	
	Officers	Cadets
(i) All India Summer Training Camp of Senior Division Boys at Bangalore from 3-5-1976 to 18-5-1976	—	2
(ii) All India Summer Training Camp of Senior Division Camp held at Pollachi (Tamil Nadu) from 19-5-1976 to 1-6-1976	1	10
(iii) All India Summer Training Camp of Senior Division Boys held at Sauni (U.P.) from 19-5-1976 to 11-6-1976	—	2
(iv) All India Summer Training Camp of Senior Division Boys held at Khrew (J and K) from 1-6-1976 to 14-6-1976	—	2
(v) All India Summer Training Camp of Senior Division Girls Cadets held at Missa (Assam) from 26-4-1976 to 7-5-1976	—	8
(vi) All India Advanced Leadership Course of Senior Division Boys held at Kalimpong (West Bengal) with Rock Climbing from 21-4-1976 to 11-5-1976	—	2
(vii) All India Advanced Leadership Course of Senior Division Boys held at Pachmarhi (M.P.) with Rock Climbing from 10-5-1976 to 30-5-1976	—	4

Camp/Course	Number attended	
	Officers	Cadets
(viii) Advanced Leadership Course (with Naval Bias) held at Vishakhapatnam (AP) from 6-5-1976 to 26-5-1976	—	3
(ix) All India Advanced Leadership Course of Senior Division Girls Cadets held at Jabalpur (M.P.) from 19-5-1976 to 8-6-1976	1	2
(x) All India INS Nau Sainik Camp XII—1976 held at Cochin from 21-5-1976 to 3-6-1976	—	7
(xi) All India Vayu Sainik Camp 1976 of Senior Division Cadets held at Air Force Station Begumpet (Secunderabad) from 26-5-1976 to 8-6-1976	—	11
(xii) Attachment to Regular Army Unit with 31 Inf Bde C/O 56 APO Course conducted from 3-5-1976 to 23-5-1976	1	49
(xiii) Attachment to Regular Army Unit with 54 Engr. Regt. C/O 56 APO from 3-5-1976 to 23-5-1976	—	2
(xiv) Attachment with Regular Army Unit 142 Sig. Reat. C/O 56 APO from 3-5-1976 to 23-5-1976	—	4
(xv) Attachment Course with Regular Air Force Unit with A F Station, Pune from 21-6-1976 to 17-7-1976	—	2
(xvi) Attachment Course with Regular Navy Unit with INS TRATA from 17-5-1976 to 13-6-1976	—	2
(xvii) Cadet detailed to attend Para training at Agra from 26-9-1976 to 30-10-1976	—	1

Four cadets attended Prime Minister's Rally—Republic Day Parade on 26th January, 1977.

## (4) All India Inter-University Shooting Competition :

(i) The above competition was held at Madras on 12 December, 1976.



The following cadets took part in the competition and obtained fourth position:

- ( i ) Cadet Sujan R Chinoy ( ii ) Cadet Banbir B N  
( iii ) Cadet Tripathi R V ( iv ) Cadet Vageeia L G  
( v ) Cadet Naik K M

( ii ) The Inter-Unit Shooting Competition of Senior Division Cadets of local units was held during the Annual Training Camp and 3 Gujarat Battalion NCC stood first.

( iii ) The Inter-Unit Drill Competition of Senior Division of local units was also conducted in January, 1977 and 1 Gujarat Air Sqn. NCC stood first.

#### ( 5 ) NCC Day Celebration :

This Group HQs. celebrated NCC Day on 28 November, 1976 at M. S. University Pavilion Ground. Cadets from various units of this Group took part in the celebration. The main events of the celebration were :

- ( i ) Funfare, ( ii ) Ceremonial Parade, ( iii ) Seme Phore Signalling, ( iv ) Launching of and flying aeromodels, ( v ) First Aid and Civil Defence Demonstration, ( vi ) Continuity Drill and ( vii ) Platoon in attack demonstration.

#### ( 6 ) Social Service by N.C.C. :

During the current training year, various small independent projects like Road construction/Repair, Traffic-duties clearing, Cleaning of Village/Slum areas and lectures on Hygiene and Sanitation to the villagers were undertaken by the Cadets—which brought them a number of letters of appreciation from various civil officials/authorities. During flood in the first week of July 1977 in Baroda, the cadets showed full enthusiasm and interest in helping the flood victims in Majalpur area.

#### ( 7 ) NCC Seminar:

NCC Seminar was held on 9th October, 1976.

#### ( 8 ) Gliding/Flying Training—1 Gujarat Air Sqn. NCC Baroda

Training in Gliding was imparted to 46 Boys and 18 Girls cadets of 1 Gujarat Air Sqn. NCC Baroda. 2512 launches were carried out by the unit upto the end of February, 1977, 24 cadets were given training in flying at Gujarat Flying Club, Baroda and have completed 724.58 hours flying upto the end of February 1977. 16 cadets have done solo flying whereas 10 cadets have done solo gliding.

#### ( 9 ) Ship-Modelling and Aeromodelling Competitions :

The undermentioned cadets have won the prizes during the above competitions :

Sr. No.	Name of Cadet	Unit	Type of contest with date	Prize won
( i )	CDT PO D.S. Panchal	2 Guj. Naval Unit NCC	Ship Modelling held at Bombay on 6-11-1976	First Prize
( ii )	CDT SGT S. S. Mistry	1 Guj. Air Sqn. NCC	Aeromodelling held at Bombay on 7-11-1977	Second Prize
( iii )	CDT LFC V. S. Vyas	1 Guj. Air Sqn. NCC	Aeromodelling held at New Delhi on 7-11-1976	Third Prize
( iv )	CDT SGT S. S. Mistry	1 Guj. Air Sqn. NCC	Aeromodelling held at New Delhi on 17-10-1976	First Prize
( v )	CDT Rajendra Gaekwad	1 Guj. Air Sqn. NCC	Aeromodelling held at New Delhi on 17-10-1976	Second Prize

#### ( 10 ) Subroto Air Trophy :

During the year under report 1 Guj. Air Sqn. NCC Baroda won the above Trophy as this unit was judged the best in Flying and Gliding amongst the Air Squadrons of NCC on all India basis. This trophy was awarded during the Vayu Sainik Camp held at Begumpet ( Secunderabad ) from 26-5-1976 to 8-6-1976.

#### ( 11 ) Adventure Training—Sailing Expedition by Naval Cadets :

Sailing expedition in 27' Whaler in Narmada river from Chandod to Purja Ghat, Broach ( distance 10 KMS ) was undertaken by 13 cadets ( including 2 cadets from Bhavnagar ) of 2 Gujarat Naval Unit NCC this year in January 1977. 2 Officers and 2 Pl Staff also took part in the expedition.

#### 5. National Service Scheme

The National Service Scheme sponsored by the Ministry of Education and Social Welfare, Government of India and Department of Education, Government of Gujarat, started its activity from September, 1969 in the M. S. University of Baroda.

The major objectives of N.S.S. are to provide opportunities to the University students to develop their capacities for Nation building tasks during their leisure time and vacations. In short, students should be motivated to utilise their energy, knowledge, scholarship and skills for the betterment of the society. It is mainly education through community service, which provides opportunities to students for their personality development.



The organisation of N.S.S. consisted of a Director, a Programme Co-ordinator, Office Secretary, Field Organiser, 14 NSS Programme Leaders, 2 Office Assistants, a driver and two peons.

This year 2849 students were enrolled from various Faculties/Institutions, as against the Government allotment of 2600 students for the year 1976-77. The N.S.S. Units are not allotted to the Colleges, but the whole scheme is organised centrally at the University level.

The normal activities of N.S.S. are carried on by different service projects. The projects are organised on the basis of students' interest. The activities of N.S.S. consisted of concurrent and special camping programmes for the year 1976-77. The concurrent programmes are co-terminus to the academic terms of the University; special camping programmes are organised during holidays and vacations. The students were involved in the activities of Education and Community Service through 15 service projects listed below :

(1) City Service Projects, (2) Construction/Craft Projects, (3) Co-operative Services Projects, (4) Creative Activity Projects, (5) Campus Beautification Projects, (6) Educational Service Projects, (7) Health Service Projects, (8) Hospital Service Projects, (9) Mass Education Projects, (10) Primary School Projects, (11) Projects for Disabled People, (12) Youth Service Projects, (13) Family Life Education Projects, (14) Library-cum-Municipal Service Projects, (15) Village Health Projects—Ankhol.

In addition to these projects NSS extended its activities at M. K. Amin Arts and Science College and College of Commerce, Padra.

Rajendrakumar Inter-University Blood Donation Competition Trophy was awarded to M. S. University of Baroda for collecting highest percentage of student donors for the year 1976. Blood Donation Group of Friends Society, Baroda helped motivating students for Blood Donation.

Nineteen camps under Special Camping Programme of Youth for Rural Reconstruction involving 1194 campers were organised by 34 Camp Organisers who belonged to teaching staff and senior student volunteers of different Faculties. They contributed in the construction of 23 Gobar Gas Plants, 194 Bavla Type of Latrines, 206 Soak-pits, 109 Smokeless Chulas, 17 Compost pits along with other manual work projects such as road construction, terracing work for afforestation project, flood relief work, village cleanliness campaign, etc. The details of the camps are as under :

Sr. No.	Place of the Camps	Duration	Total Number of Participants
(1)	Sonarkui	2-4-1976 to 13-4-1976	29
(2)	Bhaili	12-4-1976 to 23-4-1976	29
(3)	Ganpatpura	14-4-1976 to 25-4-1976	79

Sr. No.	Place of the Camps	Duration	Total Number of Participants
(4)	Sampa	22-4-1976 to 3-5-1976	57
(5)	Motafolia	24-4-1976 to 5-5-1976	53
(6)	Natwarnagar	27-4-1976 to 8-5-1976	42
(7)	Bodka	28-4-1976 to 9-5-1976	78
(8)	Rajupura	28-4-1976 to 9-5-1976	62
(9)	Itola-I.	1-5-1976 to 11-5-1976	84
(10)	Pavagadh-I.	4-5-1976 to 14-5-1976	46
(11)	Manjrol	4-5-1976 to 15-5-1976	80
(12)	Pavagadh-II.	11-5-1976 to 21-5-1976	75
(13)	Motahabipura	11-5-1976 to 21-5-1976	34
(14)	Itola-II.	15-5-1976 to 25-5-1976	59
(15)	Varsada	21-5-1976 to 1-6-1976	55
(16)	Pavagadh-III.	21-5-1976 to 31-5-1976	131
(17)	Tejgadh	2-6-1976 to 5-6-1976	47
(18)	Saidal-I	1-6-1976 to 3-6-1976	83
(19)	Saidal-II	27-10-1976 to 7-11-1976	71
Total :			1194

The following programmes were also undertaken in all the camps:

(1) Motivation for Gobar Gas Plant, (2) Mass-immunisation, (3) Scar Survey, (4) Medical Check-up, (5) Motivation for Blood Donation, (6) Healthy Baby Competitions, (7) Slogan writing on walls, (8) Public Entertainment Programme, (9) Family Planning Exhibition, (10) Home Decoration Competitions, (11) Clean Utensils Competitions, (12) Moholla Safai Competitions, (13) Film Shows, (14) Health Surveys, (15) Eye Diagnosis, (16) Re-vaccination, (17) Removal of encroachment on land, (18) Disinfection of water in wells, (19) Afforestation and Tree Plantation and (20) Preservation of Archaeological Monuments.

#### 6. Students' Common Rooms

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



A cafeteria is attached to each of the three Common Rooms. There are facilities for indoor games such as carrom, draughts, chess, table tennis, etc. and reading material like daily newspapers, periodicals and a small collection of books. Committees consisting of the members of the teaching staff look after the upkeep and arrangements of the rooms. The rooms are also used for meetings of the Students' Association, Socials, Indoor games and tournaments.

### 7. Hobby Workshop

The M. S. University Hobby Workshop provided instructions to 128 students in various hobbies during 1976-77 as mentioned below :

<i>Hobby</i>	
( i ) Carpentry	10
( ii ) Assembling electrical and electronic appliances	8
( iii ) Music	55
( iv ) Clay-modelling	15
( v ) Photography	40

### 8. University Employment Information and Guidance Bureau

The Bureau carried out the following activities :

	<i>Number of students</i>
( i ) Registration of students	877
( ii ) Submission	3044
( iii ) Placement	82
( iv ) Supply of information to individuals	1244
( v ) Guidance to students	450
( vi ) Group Guidance Talks	25
( vii ) Visitors	2732
( viii ) Review of Live Registers	68

The Bureau also conducted Gujarati Typewriting Classes upto June, 1976 under the Educated Unemployment Relief Scheme of the Government of Gujarat. It also made efforts to direct the unemployed persons for training in Office Management, Banking, Accountancy, Management and Industrial Engineering, Computers Training, etc.

## THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

### Statement showing the number of University Students in the Academic year 1976-77

Appendix I

Sr. No.	Institutions	Post-graduate Courses		Degree Courses		Diploma Courses		Total		Grand Total 1976-77		Grand Total 1975-76		Grand Total 1974-75	
		Men		Women		Men		Women		Men		Women		Men	
		Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
1	Faculty of Arts	213	195	1211	839	36	13	1460	1047	2507	2797	3483	2015	425	4142
2	Faculty of Science	268	124	851	394	20	4	1139	518	1657	1628	2015	425	4142	888
3	Faculty of Education and Psychology	79	63	92	195	4	4	175	262	437	460	425	4142	888	3026
4	Faculty of Commerce	367	70	1872	781	15	3	2254	854	3108	3603	4142	888	3026	276
5	Faculty of Medicine	100	36	627	117	—	—	727	153	880	884	888	3026	276	822
6	Faculty of Technology and Engg.	131	6	2539	112	259	2	2929	120	3049	2924	3026	276	822	87
7	Faculty of Fine Arts	37	13	72	69	136	13	245	95	340	305	305	305	305	1943
8	Faculty of Home Science	1	177	—	842	—	—	1	1019	1020	942	822	822	822	2140
9	Faculty of Social Work	63	27	—	—	—	—	63	27	90	99	99	99	99	1188
10	Faculty of Law	78	2	724	91	280	26	1082	119	1201	1135	1943	2140	1188	1092
11	Preparatory Unit—Arts and Commerce	—	—	1578	811	—	—	1578	811	2389	2110	2140	1188	1092	101
12	Preparatory Unit—Science	—	—	1106	217	—	—	1106	217	1323	1201	1188	1092	101	60
13	M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	559	89	—	—	559	89	648	1034	1092	101	60	2052
14	College of Indian Music, Dance and Dramatics	8	6	38	41	—	—	46	47	93	96	101	60	2052	23740
15	Baroda Sanskrit Mahavidyalaya	9	1	9	2	36	3	54	6	60	79	1841	2052	23740	23740
16	Polytechnic	—	—	—	—	1861	1	1861	1	1862	1841	2052	23740	23740	23740
TOTAL...		1354	720	11278	4600	2647	65	15279	5385	20664	21138	23740	23740	23740	23740



## Appendix II

Statement showing the number of Non-University Students in the year 1976-77

Institution	Men	Women	Total 1976-77	Total 1975-76	Total 1974-75
<b>(A) Diploma Courses</b>					
(1) College of Indian Music, Dance and Dramatics	390	327	717	702	721
<b>(B) Certificate Courses</b>					
(1) Faculty of Arts	182	43	225	204	382
(2) Faculty of Fine Arts	10	4	14	15	11
(3) Baroda Sanskrit Maha- vidyalaya	96	2	98	85	68
<b>(C) S.S.C. Courses</b>					
(1) University Experimental School	335	229	564	513	519
<b>(D) Nursery Courses</b>					
(1) Chetan Balwadi	45	40	85	62	57
(2) Kindergarten	11	9	20	23	28
Total :	1,069	654	1,723	1,604	1,786

## Appendix III

List of Degree/Diplomas conferred at the Annual and  
Supplementary Convocations during the year 1976-77

Sr. No.	Degree/Diploma	Annual Convocation November, 1976	Supple- mentary Convocation March, 1977	Total
1	2	3	4	5
1.	Ph.D. ( Arts )	4	1	5
2.	Ph.D. ( Science )	11	12	23
3.	Ph.D. ( Commerce )	1	—	1
4.	Ph.D. ( Edu. and Psy. )	19	6	25
5.	Ph.D. ( Fine Arts )	1	—	1
6.	M.D.	6	10	16
7.	M.S.	5	14	19
8.	M.A.	165	19	184
9.	Acharya	2	—	2
10.	B.A.	658	62	720
11.	Shastri	2	—	2
12.	Bachelor of Library Science	33	—	33
13.	M.Sc. ( Final )	135	7	142
14.	B.Sc.	243	64	307
15.	M.Ed.	38	—	38
16.	B.Ed.	147	—	147
17.	M.Com.	127	28	155
18.	B.Com.	808	112	920
19.	P.G. Diploma in Banking	32	—	32
20.	P.G. Dip. in Co-operation	3	—	3
21.	M.Sc. ( Medical )	2	6	8
22.	M.B.B.S.	39	105	144
23.	B. Physiotherapy	12	2	14
24.	D.O.	—	—	—
25.	D.A.	1	3	4
26.	D.L. & O.	1	1	2
27.	D.C.H.	2	2	4
28.	D.V. & D.	1	—	1
29.	T.D.D.	—	1	1
30.	D.C.P.	—	2	2
31.	D.P.H.	—	—	—
32.	D.G.O.	2	3	5



1	2	3	4	5
33. D.M.R.D.	—	—	—	—
34. M.E.	9	6	15	—
35. M.Text.	4	—	4	—
36. M.Sc. (Applied Mathematics)	6	—	6	—
37. M.Sc. (Applied Physics)	4	—	4	—
38. B.Tech.	1	16	17	—
39. B.E.	378	6	384	—
40. B.Text. (Engg.)	7	1	8	—
41. B.Text. (Tech.)	34	1	35	—
42. B.Arch.	36	—	36	—
43. P.G. Dip. in Ref. & and Air-Cond.	—	—	—	—
44. LL.M.	8	—	8	—
45. LL.B. (Special)	74	15	89	—
46. LL.B. (General)	76	44	120	—
47. D.T.P.	55	6	61	—
48. D.L.P.	23	6	29	—
49. M.A. (Fine)	7	—	7	—
50. M.Mus.	5	—	5	—
51. B.A. (Fine)	14	—	14	—
52. B.Mus.	21	—	21	—
53. P.G. Dip. in Museology,	5	—	5	—
54. M.Sc. (Home)	30	9	39	—
55. B.Sc. (Home)	108	13	121	—
56. P.G. Dip. in Pre-school Edu.	16	2	18	—
57. P.G. Dip. in Dietetic	10	2	12	—
58. M.S.W.	35	—	35	—
59. P.G. Dip. in Industrial Relation and and Personnel Management	—	15	15	—
	3466	603	4069	—

Statement showing the number of Teaching Staff of various  
Faculties and Institutions as on 31st March, 1977

Institution	Pro- fessors	Readers	Lec- turers	Teaching Assstants, Lec- turers, Se- nior/Junior Instructors	Honorary Part-time Research & others	Total
1	2	3	4	5	6	7
1. Arts	11	17	61	—	4	93
2. Science	14	27	141	—	—	182
3. Education and Psychology	4	9	26	1	—	40
4. Commerce	3	9	22	6	3	43
5. Tech. and Engg.	20	41	135	13	14	223
6. Fine Arts	2	6	22	2	2	34
7. Home Science	3	7	37	6	2	55
8. Social Work	1	2	8	3	1	15
9. Law	—	2	3	—	12	17
10. Oriental Institute	1	1	5	—	—	7
11. College of Indian Music, Dance and Dramatics	1	3	31	—	8	43
12. Baroda Sanskrit Maha- vidyalaya	—	—	4	9	1	14
13. Polytechnic	1	5	75	8	—	89
14. M. K. Amin Arts and Science College and College of Commerce, Padra	—	1	26	—	4	31
Total	61	130	596	48	51	886



## List of Students qualifying for the Ph.D. Degree during the year 1976-77

Sr.No.	Name	Subject	Title of the Thesis
<b>Faculty of Arts</b>			
1.	Shri Madhukar Sitaram Athavale	Philosophy	A study of Ethics as a theory of Virtues.
2.	Smt. Indu Daya-shanker Shukla	Hindi	Bhagavati Charan Verma Aur Unka Katha Sahitya.
3.	Kumari Shyama Ladhusingh Kachhwala	Hindi	Rajasthan Ke Shrungarik Lokgeet.
4.	Shri K. M. George	Archaeology	Archaeology of Kerala.
5.	Kumari Yogini Govindrao Nighoskar	Philosophy	Universals and Particulars—An Essay in Contextual Analysis.
<b>Faculty of Science</b>			
6.	Shri Sumant Goculdas Shah	Physics	Investigations on the Spectra of some diatomic molecules Ba I, Sr I, Ca I and Cac I).
7.	Shri Pratap Lalsing Yadav	Zoology	Comparative Histochemical Studies on avian liver.
8.	Shri Hiralal Nakhashi	Bio-Chemistry	Effect of Nutritional deficiencies on the Lipid Composition of the brain in rats.
9.	Kumari Jasoda Hariram Pardanani	Chemistry	Studies in Dihydroxy, Naphthalenes and 4, 4 Dihydroxy diphenyl Ether.
10.	Shri Ashutosha Nilkanthrai Kachhya	Microbiology	Metabolic Changes in Pseudomonas Aeryginosa grown on naphthalene as the carbon source.
11.	Kumari Salma Mohmmmed Amin Baqui	Microbiology	Factors affecting Mango ripening.
12.	Shri Arvind Kumar Ramanlal Vyas	Physics	Study of Bismuth-Antimony alloys single crystals.
13.	Shri Ashwin Mohanlal Madia	Microbiology	Studies on the Factors affecting Flavinoxensis in Fremothecium Ashibyii.

Sr.No.	Name	Subject	Title of the Thesis
14.	Shri Janakkumar Haribhai Desai	Zoology	Studies on the reproductive pattern growth and certain behaviour of the painted stork I B I S Leucocephalus Pannant.
15.	Shri Bharat Kumar Trikamlal Thakor	Chemistry	Binary and Ternary Complexes—their reactivities.
16.	Shri John Wessly	Physics	Luminescence of Strontium and Calcium doped Sodium Chloride-Phosphors.
17.	Shri Mammen Daniel	Botany	Chemotaxonomic Studies on some selected Angio Spermic Taxa.
18.	Shri M. N. Kamalasanan	Physics	Study of the spectra of some diatomic molecules (Mg Br, Ca Br (Ca I and Sr I).
19.	Shri Ramchandra Keshavlal Patel	Mathematics	Convergence and Summability of Orthogonal Series.
20.	Shrimati Sunanda Prakash	Bio-Chemistry	Microbial Chemistry of Algal bacterial symbiosis in Laboratory model high rate oxidation ponds using certain mix algal and Baroda raw settle sewage.
21.	Kumari Pratibha Davidayal Kathuria	Zoology	Wound healing and repair in the skin of normal and alloxan diabetic rats. A Histophysiological Study..
22.	Smt. Kailash Parimal Sanghvi	Chemistry	Studies in the Synthesis Furano Compounds.
23.	Smt. Anjana Jitendra Desai	Microbiology	Some Bio-chemical Properties of Rhizobium Japonicum.
24.	Shri Harish Gulabrai Desai	Microbiology	Studies on carotenogens in Molds with special reference to Blakeslea Trispora.
25.	Shri Joel Edwin Shah	Chemistry	Sorption and related studies with Ion Exchanges.
26.	Shri Digambar Ramchandra Gadekar	Geology	Geology of the Tertiary rocks of South-Gujarat with special reference to their stratigraphy and sedimentation.
27.	Shri B. Vinayak Kamath	Chemistry	Sorption studies of bezoic acids with Ion Exchange Resins.



Sr.No.	Name	Subject	Title of the Thesis
28.	Shri George Kurian V.	Chemistry	Studies on liquid crystalline properties of cholesteric and Nematic Esters.
29.	Shri Vishnu Prakash	Bio-Chemistry	Studies on Polyamine Metabolism during germination of Pea seeds.
30.	Shri Rameshchandra Thakorlal Shah	Physics	Microtopography and related study of crystal surfaces by high resolution Techniques.
		Education and Psychology	
31.	Shri Chandrakant Kantilal Shah	Psychology	A study of Personality Development of Children as function of parental authoritarianism.
32.	Shri Suraj Prakash Malhotra	Education	Teacher classroom behaviour in relation to presage variables of Teacher Attitude and Adjustment and product variables of students liking perceived behaviour by peer principles and self.
33.	Kumari Suhasini Shrimukhram Shukla	Education	The Gujarati Vocabulary of students of Standards I to V in the Surat District—A study.
34.	Kumari Yashumati Maneklal Mehta	Education	An Inquiry into Relationship between Teacher class-room communication patterns and certain perceptual Factors.
35.	Shri Bhagavatlal Chimanlal Raijiwala	Education	Changing Teacher behaviour in the Teaching of Science and Studying its effects on pupils.
36.	Shri P. Radhakrishnan Nayar	Education	Cognitive Interactions in class-room Instruction.
37.	Shri R. Govinda	Education	Development of a Programmed text on Educational Evaluation and Experimentally studying its Effectiveness as Instructional Material for B.Ed. students.
38.	Shri Mathew George	Education	Class-room behaviour of teachers and its relationship with their Creativity and self-concept.

Sr.No.	Name	Subject	Title of the Thesis
39.	Shri Kurapaty Sangeethrao	Education	Study of self-perception need achievement and academic performance of the prospective Secondary School Teachers.
40.	Shri Moothedath Abu Baker	Education	Centre-State Relations in Indian Education during the Fourth Plan Periods.
41.	Shri Narayan Anant Vaze	Education	Effects of Modeling and Microteaching on Aquisition of certain skills in questioning.
42.	Shri Samrong Pengnu	Education	A study of Organizational Climate and teacher morale in secondary schools in the Central Zone Thailand.
43.	Smt. Premalata Srivastava	Education	Development of Home Science Degree Programme in India.
44.	Shri Phra Maha Chamras Phodhipracha	Education	A Comparative Study of Teacher Education in the State of Gujarat in India and that in Thailand with special reference to its organisation and administration.
45.	Shri Mahendra Manilal Chokshi	Education	Comparative Study of the Programmes of Elementary Teacher Education in the State of Gujarat and Philippines.
46.	Shri Ratanlal Phutela	Education	A Study of some selected motivational Factors in relation to academic Achievements and Socio Economics Status among College Students in the States of Harayana and Punjab.
47.	Shri Avinashkant Shaida	Education	Teaching patterns questioning and feedback and pupils attainment.
48.	Smt. Vinodini Praful Parikh	Education	An Inquiry into Factors affecting reading speed and comprehension.
49.	Smt. Pramila Bhupendra Dekhtawala	Education	Teacher morale in Secondary School of Gujarat.
50.	Shri Saman Choithram Tikmani	Education	A Critical Evaluation of Administration of Elementary Teachers Education in Gujarat.



Sr.No.	Name	Subject	Title of the Thesis
51.	Kumari S. Lakshmi	Education	Conducting achievement motivation development programme on teacher trainees and studying its effect on their performance.
52.	Shri Sat Paul Gupta	Education	A study of some selected Inputs from Improving Education of Secondary Schools Teachers ( B.Ed. Level ) in Punjab—A Systems Approach.
53.	Kumari Amita Jayendra Chokshi	Education	Effects of Psychological Education inputs on the academic performance of Primary School Children.
Faculty of Fine Arts			
54.	Shri Kanaiyalal Ghunilal Shastri	Dramatics	The Contribution of Parsis' in Gujarati Theatre.

Appendix VI  
Results of the University Examinations of April-May, 1976

Sr. No.	Examination	Number appeared										Number Passed										Percentage of Passes
		No. Regd.					No. Absent					Men					Women					
		Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	Grand Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
1	Prep. Arts	1386	30	900	456	1356	—	8	64	300	372	—	13	91	131	325	607	43.00%				
2	F.Y.B.A.	1100	50	685	365	1050	—	9	80	290	379	—	15	66	162	243	622	56.00%				
3	*S.Y.B.A.	1109	74	714	321	1035	—	—	—	226	226	—	—	—	225	225	451	70.00%				
4	B.A.	934	35	543	356	899	3	13	116	241	370	7	18	—	164	209	579	42.00%				
5	*M.A. ( Part I )	221	20	120	81	201	—	—	—	90	90	—	—	—	72	72	162	81.00%				
6	M.A. ( Part II )	196	3	113	80	193	—	4	41	41	86	—	12	30	31	73	159	80.00%				
7	Acharya	2	—	2	—	2	—	1	1	1	2	—	—	—	—	—	2	100.00%				
8	Shastri	3	—	3	—	3	—	1	1	1	3	—	—	—	—	—	3	100.00%				
9	Bachelor of Lib. Science	46	1	7	38	45	—	—	—	4	4	—	3	11	14	28	32	71.00%				
10	P.D. Dip. in German Lang.	6	—	3	3	6	—	3	—	—	3	—	3	—	—	3	6	100.00%				
11	Dip. in German Lang.	18	3	11	4	15	—	7	2	1	10	—	4	—	—	4	14	93.00%				
12	Prep. Science	1490	30	1229	21	1460	—	265	293	142	700	—	73	52	34	159	859	57.00%				
13	Pre-Medical	144	—	123	21	144	—	48	61	10	119	—	10	9	2	21	140	97.00%				
14	*Dip. in Laboratory Techniques	8	—	6	2	8	—	—	—	4	4	—	—	—	2	2	6	75.00%				
15	F.Y.B.Sc.	442	7	318	117	435	—	18	60	107	185	—	23	40	33	96	281	65.00%				
16	*S.Y.B.Sc.	509	17	328	164	492	—	—	—	196	196	—	—	—	135	135	331	65.00%				
17	B.Sc.	440	13	309	118	427	4	16	71	69	160	3	23	50	19	95	265	58.00%				

\* No Class is awarded.

\* No Class is awarded.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
18	*M.Sc. (Previous)	189	10	127	52	179	—	—	—	77	77	—	—	—	49	49	126	70.00%	
19	M.Sc. (Final)	147	3	103	41	144	5	29	49	12	95	2	8	24	4	38	133	92.00%	
20	M.Sc. (Appl. Geology)	3	—	3	—	3	1	1	—	—	3	—	—	—	—	—	3	100.00%	
21	B.Ed.	148	—	—	31	117	148	6	23	2	31	1	16	98	1	116	147	98.51%	
22	M.Ed.	38	—	—	27	11	38	1	2	18	6	27	2	1	7	1	11	100.00%	
23	Prep. Commerce	1288	14	850	424	1274	—	64	239	237	540	—	44	159	122	325	865	67.00%	
24	F.Y.B.Com.	1143	27	796	320	1116	—	20	119	346	475	—	8	59	188	255	730	65.00%	
25	*S.Y.B.Com.	1328	87	919	322	1241	—	—	—	609	609	—	—	—	235	235	844	68.00%	
26	T.Y.B.Com.	1257	64	928	265	1193	1	61	290	243	595	1	18	90	87	196	791	66.00%	
27	*-do- (under O.Com. 25)	6	—	4	2	6	—	—	—	3	3	—	—	—	—	1	1	4	66.00%
28	*-do- (under O.Com. 27)	57	4	36	17	53	—	—	—	22	22	—	—	—	—	13	13	35	68.00%
29	*M.Com.—Part I	288	73	179	36	215	—	—	—	142	142	—	—	—	33	33	175	81.00%	
30	M.Com.—Part II	196	27	143	26	169	—	1	35	69	105	—	1	13	9	23	128	76.00%	
31	*P.G.Dip. in Banking	44	7	14	23	37	—	1	5	5	11	—	2	13	6	21	32	86.00%	
32	*P.G.Dip. in Co-operation	5	1	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%	
33	*U.G.Dip. in Co-operation	8	1	7	—	7	—	—	—	7	7	—	—	—	—	—	7	100.00%	
34	*M.D. (Br. I—Medicine)	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.00%	
35	*M.D. (Br. II—Pathology)	2	—	1	1	2	—	—	—	1	1	—	—	—	—	—	1	50.00%	
36	*M.D. (Br. V—Obst. & Gynae.)	4	—	3	1	4	—	—	—	2	2	—	—	—	—	—	2	50.00%	
37	*M.D. (Br. VI—Paediatrics)	2	—	1	1	2	—	—	—	—	—	—	—	—	—	—	—	00.00%	
38	*M.D. (Br. VII—Anaesthesia)	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%	
39	*M.S. (Br. I—Surgery)	6	—	6	—	—	—	—	—	2	2	—	—	—	—	—	2	33.33%	
40	*M.S. (Br. II—Anatomy)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%	
41	*M.S. (Br. III—Orthopaedics)	5	—	5	—	5	—	—	—	—	—	1	—	—	—	—	1	20.00%	
42	*M.S. (Br. V—Ophthalmology)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	2	100.00%	
43	*M.Sc. (Medical)—Part I	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%	
44	*M.Sc. (Medical)—Part II	6	—	5	1	6	—	—	—	2	2	—	—	—	—	—	2	33.33%	
45	*Dip. in Ophthalmology	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%	

\* No Class is awarded.

† From 1968 Examination, Grades are awarded to the candidates but the results are declared in classes (i.e. I Class Dist., I Class, II Class and Pass Class).

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
46	*Dip. in Anaesthesiology	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	—	100.00%
48	*Dip. in Laryngology & Otology	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	—	100.00%
49	*Dip. in Child Health	4	—	4	—	4	—	—	—	—	2	—	—	—	—	—	2	50.00%
50	*Dip. in Venereology & Dermatology	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100.00%
51	*Dip. in Tuberculous Diseases	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
52	*Dip. in Obstetrics & Gynaecology	2	—	2	—	2	—	—	—	—	—	—	—	—	2	2	2	100.00%
53	*II M.B., B.S.	175	3	153	19	172	—	—	—	—	108	—	—	—	15	15	123	71.00%
54	*II M.B., B.S. (Supplementary)	51	—	47	4	51	—	—	—	—	38	—	—	—	4	4	42	82.00%
55	Final M.B.B.S.	38	—	31	7	38	—	—	—	—	24	—	—	—	6	6	30	81.00%
56	*F.Y.B. Physiotherapy (Suppl.)	15	—	1	14	15	—	—	—	—	1	—	—	—	7	7	8	53.00%
57	*F.Y.B. Physiotherapy (Suppl.)	6	—	—	6	6	—	—	—	—	—	—	—	—	5	5	5	83.00%
58	*S.Y.B. Physiotherapy (Suppl.)	10	—	1	9	10	—	—	—	—	1	—	—	—	7	7	8	80.00%
59	*S.Y.B. Physiotherapy (Suppl.)	2	—	—	2	2	—	—	—	—	—	—	—	—	1	1	1	50.00%
60	*T.Y.B. Physiotherapy	14	—	6	8	14	—	—	—	—	4	—	—	—	8	8	12	85.00%
61	F.Y. Dip. (CME)	446	8	438	—	438	—	—	16	76	130	222	—	—	—	—	222	51.75%
62	S.Y. Dip. (CME)	422	4	418	—	418	—	—	62	105	97	260	—	—	—	—	260	62.11%
63	*I Sem. of S.Y. Dip. (CME)	99	10	89	—	89	—	—	—	—	45	—	—	—	—	—	45	55.26%
64	Extnd. Dip. Course	112	5	107	—	107	—	—	4	6	31	41	—	—	—	—	41	44.00%
65	*I Sem. of Final Year	8	1	7	—	7	—	—	—	—	2	—	—	—	—	—	2	28.56%
66	D.C.E.—Extnd. Dip. Course	10	2	8	—	8	—	—	—	—	4	—	—	—	—	—	4	50.00%
67	*I Sem. of Final Year	34	3	31	—	31	—	—	—	—	5	—	—	—	—	—	5	16.11%
68	D.C.E.—Extnd. Dip. Course	17	1	16	—	16	—	—	—	3	4	1	8	—	—	—	8	50.00%

\*No Class is awarded.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
69	II Sem. of Final Year D.M.E.—Extd. Dip. Course	30	2	28	—	28	—	10	8	4	22	—	—	—	—	—	22	78.57%
70	II Sem. of Final Year D.E.E. Extd. Dip. Course	41	13	28	—	28	—	2	5	5	12	—	—	—	—	—	—	—
71	Diploma in Civil Engg.	171	3	168	—	168	—	54	65	17	136	—	—	—	—	—	12	42.85%
72	Diploma in Mech. Engg.	112	6	106	—	106	—	25	28	21	74	—	—	—	—	—	136	81.50%
73	*Diploma in Mech. Engg. (Under O.T.E. 155)	36	5	31	—	31	—	—	—	—	—	—	—	—	—	—	74	69.81%
74	Diploma in Elect. Engg.	75	8	67	—	67	—	8	12	16	36	—	—	—	—	—	30	97.00%
75	*Diploma in Elect. Engg. (Under O.T.E. 162)	40	3	37	—	37	—	—	—	—	—	—	—	—	—	—	36	50.74%
76	D.T.T.	32	2	30	—	30	—	3	11	5	19	—	—	—	—	—	25	67.57%
77	D.T.C. (Under O.T.E. 184)	62	2	60	—	60	—	13	26	13	52	—	—	—	—	—	19	63.33%
78	D.T.C.	30	1	29	—	29	—	3	12	4	19	—	—	—	—	—	52	86.66%
79	*I Sem. of F.Y. Dip. (OPF)	8	1	7	—	7	—	—	—	7	7	—	—	—	—	—	19	63.33%
80	*II Sem. of F.Y. Dip. (OPF)	39	1	38	—	38	—	10	14	10	34	—	—	—	—	—	7	100.00%
81	*I Sem. of S.Y. Dip. (OPF)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	34	89.47%
82	*II Sem. of S.Y. Dip. (OPF)	35	—	35	—	35	—	15	17	1	33	—	—	—	—	—	—	00.00%
83	*I Sem. of T.Y. Dip. (OPF)	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	33	94.29%
84	*II Sem. of T.Y. Dip. (OPF)	44	—	44	—	44	—	19	20	3	42	—	—	—	—	—	3	75.00%
85	*I Sem. of Final Year Dip. (OPF)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	42	97.67%
86	*II Sem. of Final Year Dip. (OPF)	55	—	55	—	55	—	40	14	1	55	—	—	—	—	—	1	100.00%
87	*I Sem. of F. Text. (Engg. & Tech.)	44	1	43	—	43	—	—	—	—	—	—	—	—	—	—	55	100.00%
88	*II Sem. of F. Text. (Engg. & Tech.)	90	1	89	—	89	—	7	30	15	54	—	—	—	—	—	18	42.08%
89	*I Sem. of S. Text. (Engg. & Tech.)	21	1	20	—	20	—	—	—	—	—	—	—	—	—	—	54	61.36%
90	*II Sem. of S. Text. (Engg. & Tech.)	66	—	66	—	66	—	4	19	13	38	—	—	—	—	—	14	70.00%
91	*T. Text. (Engg.)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	38	57.57%
92	*I Sem. of T. Text. (Tech.)	8	—	8	—	8	—	—	—	—	—	—	—	—	—	—	1	100.00%
93	*II Sem. of T. Text. (Engg.)	7	—	7	—	7	—	—	—	—	—	—	—	—	—	—	7	85.71%
94	*II Sem. of T. Text. (Tech.)	39	—	39	—	39	—	2	3	20	12	37	—	—	—	—	6	85.71%
																	37	94.87%

\* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
95	*T. Text.—(Tech.) O.C.	5	—	5	—	5	—	—	—	—	3	3	—	—	—	—	3	60.00%
96	B. Text.—(Engg.)	8	—	8	—	8	—	4	3	—	7	—	—	—	—	—	7	87.05%
97	B. Text.—(Tech.)	39	—	39	—	39	—	1	18	24	1	34	—	—	—	—	34	87.18%
98	M. Text. (Engg.) Part I	5	—	5	—	5	—	—	—	5	—	—	—	—	—	—	5	100.00%
99	*M. Text (Engg.) Part III	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100.00%
100	M. Text. (Engg.) Part IV	3	—	3	—	3	—	2	1	—	3	—	—	—	—	—	3	100.00%
*101	I Sem. of B.E. I. (CME, Chem., Met.)	127	3	124	—	124	—	—	—	91	91	—	—	—	—	—	91	74.00%
102	II Sem. of B.E. I (CME., Chem., Met.)	429	8	421	—	421	—	18	44	148	78	288	—	—	—	—	288	68.73%
*103	I Sem. of B.E. II (CME., Chem., Met.)	89	3	86	—	86	—	—	—	51	51	—	—	—	—	—	51	59.30%
104	II Sem. of B.E. II (CME., Chem., Met.)	355	1	354	—	354	—	16	59	148	48	271	—	—	—	—	271	76.49%
*105	I Sem. of B.E. III (CME., Chem., Met.)	84	—	84	—	84	—	—	—	43	43	—	—	—	—	—	43	51.1%
106	II Sem. of B.E. III (CME., Chem., Met.)	367	2	365	—	365	—	23	42	171	64	300	—	—	—	—	300	82.00%
*107	I Sem. of B.E. IV (CME., Chem., Met., Electro.)	73	—	73	—	73	—	—	—	50	50	—	—	—	—	—	50	69.01%
108	II Sem. of B.E. IV (CME., Chem., Met., Electro.)	413	2	411	—	411	—	50	84	156	59	349	—	—	—	—	349	84.88%
*109	I Sem. of B.E. V (Civil)	9	—	9	—	9	—	—	—	8	8	—	—	—	—	—	8	80.00%
*110	—do— (Mechanical)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*111	—do— (Electrical)	7	3	4	—	4	—	—	—	4	4	—	—	—	—	—	4	100.00%
*112	—do— (Chemical)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%
*113	—do— (Metallurgy)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	1	50.00%
*114	—do— (Instru. Specialisation)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100.00%
*115	II Sem. of B.E. V (Civil)	125	—	125	—	125	—	24	66	34	—	124	—	—	—	—	124	99.00%
116	II Sem. of B.E. V (Mech.)	93	1	92	—	92	—	28	38	24	—	90	—	—	—	—	90	97.00%
117	II Sem. of B.E. V (Elect.)	54	2	52	—	52	—	15	15	17	—	47	—	—	—	—	47	73.11%

\* No Class is awarded.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
118	II Sem. of B.E. V (Chem.)	46	—	—	46	—	46	31	11	4	—	46	—	—	—	—	—	—	46
119	II Sem. of B.E. V (Met.)	25	1	24	—	—	24	17	5	1	—	23	—	—	—	—	—	—	23
120	II Sem. of B.E. V (Electro.)	25	—	25	—	—	25	13	9	3	—	25	—	—	—	—	—	—	25
121	II Sem. of B.E. (Tech.) (Electro.)	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51
122	I Sem. of B.E. I (Electro.)	1	—	1	—	—	1	—	1	—	—	1	—	—	—	—	—	—	1
123	II Sem. of B.E. I (Electro.)	5	—	5	—	—	5	—	—	—	5	—	—	—	—	—	—	—	5
124	I Sem. of B.E. II (Electro.)	21	1	19	1	20	1	5	5	—	6	17	—	—	—	—	—	—	18
125	II Sem. of B.E. II (Electro.)	1	—	1	—	—	1	—	—	—	1	—	—	—	—	—	—	—	1
*126	I Sem. of B.E. III (Electro.)	20	1	19	—	—	19	1	1	12	2	16	—	—	—	—	—	—	16
127	II Sem. of B.E. III (Electro.)	2	—	2	—	—	2	—	—	—	1	—	—	—	—	—	—	—	1
*128	M.E.—Part I (Civil)	13	2	23	1	24	9	7	6	—	—	22	—	—	—	—	—	—	23
*129	M.E.—Part I (Mech.)	9	—	9	—	—	9	—	—	—	8	6	—	—	—	—	—	—	8
*130	M.E.—Part I (Elect.)	10	1	9	—	—	9	—	—	—	5	5	—	—	—	—	—	—	6
*131	M.E.—Part II (Met.)	3	—	3	—	—	3	—	—	—	3	3	—	—	—	—	—	—	5
*132	M.E.—Part II (Elect.)	1	—	1	—	—	1	—	—	—	1	—	—	—	—	—	—	—	3
*133	M.E.—Part III (Civil)	4	—	4	—	—	4	—	—	—	4	4	—	—	—	—	—	—	1
*134	M.E.—Part III (Mech.)	6	—	6	—	—	6	—	—	—	6	6	—	—	—	—	—	—	4
*135	M.E.—Part III (Elect.)	5	—	5	—	—	5	—	—	—	5	5	—	—	—	—	—	—	6
*136	M.E.—Part III (Met.)	5	—	5	—	—	5	—	—	—	5	5	—	—	—	—	—	—	5
137	M.E.—Part IV (Civil)	3	—	3	—	—	3	1	2	—	3	3	—	—	—	—	—	—	3
138	M.E.—Part IV (Mech.)	4	—	4	—	—	4	—	3	—	—	3	—	—	—	—	—	—	3
139	M.E.—Part IV (Elect.)	3	—	3	—	—	3	—	2	1	—	3	—	—	—	—	—	—	3
*140	I Sem. of Post-Dip. Dip. in Ref. & Air Cond.	1	—	1	—	—	1	—	—	—	1	—	—	—	—	—	—	—	1
141	II Sem. of Post-Dip. Dip. in Ref. & Air Cond.	5	—	5	—	—	5	—	3	1	—	4	—	—	—	—	—	—	4
*142	I Sem. of B.Arch. I	8	—	8	—	—	8	—	—	—	5	5	—	—	—	—	—	—	8
143	II Sem. of B.Arch. I	39	—	29	10	39	—	3	12	—	2	17	—	—	6	2	8	25	100.00%
*144	I Sem. of B.Arch. II	14	—	12	2	14	—	—	—	—	10	10	—	—	—	2	2	12	64.86%

\* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
145	II Sem. of B.Arch. II	42	—	—	—	42	—	—	2	11	5	18	—	1	8	3	12	30	75.00%	
*146	I Sem. of B.Arch. III	10	—	8	2	10	—	—	—	—	5	5	—	—	—	2	2	7	70.00%	
147	II Sem. of B.Arch. III	42	—	31	11	42	—	—	3	7	12	22	1	—	5	2	8	30	71.43%	
*148	I Sem. of B.Arch. IV	7	—	6	1	7	—	—	—	—	6	6	—	—	—	1	1	7	100.00%	
149	II Sem. of B.Arch. IV	36	—	23	13	36	—	—	3	8	7	17	—	2	6	4	12	30	83.33%	
*150	I Sem. of Final B.Arch.	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	00.00%	
151	II Sem. of Final B.Arch.	39	—	32	7	39	—	—	6	22	—	28	—	1	6	—	7	35	89.74%	
152	B.Arch. (Old Course)	3	2	1	—	1	—	—	—	—	1	1	—	—	—	—	—	1	100.00%	
*153	I Sem. of B.Pharm. I	2	—	1	1	2	—	—	—	—	1	1	—	—	—	1	1	2	100.00%	
154	II Sem. of B.Pharm. I	31	—	24	7	31	6	8	7	—	—	21	2	2	1	1	6	27	87.00%	
155	II Sem. of B.Pharm. II	32	—	26	6	32	11	10	4	—	—	25	1	3	2	—	6	31	97.00%	
*156	I Sem. of B.Pharm. III	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	1	100.00%	
157	II Sem. of B.Pharm. III	27	—	21	6	27	2	12	7	—	—	21	—	6	—	—	6	27	100.00%	
*158	I Sem. of M.Sc. (Applied Physics.)	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	1	100.00%	
*159	II Sem. of M.Sc. (Applied Physics)	4	—	4	—	4	—	—	—	—	3	3	—	—	—	—	—	3	75.00%	
160	IV Sem. of M.Sc. (Applied Physics)	4	—	4	—	4	—	—	3	1	—	4	—	—	—	—	—	4	100.00%	
*161	II Sem. of M.Sc. (Applied Maths.)	5	—	4	1	5	—	—	—	—	4	4	—	—	—	1	1	5	100.00%	
162	IV Sem. of M.Sc. (Applied Maths.)	6	—	6	—	—	6	1	3	2	—	6	—	—	—	—	—	6	100.00%	
163	I L.L.B. (General)	521	156	325	40	365	—	365	—	3	55	27	85	—	—	8	3	11	96	26.00%
164	II L.L.B. (General)	239	44	168	27	195	—	195	—	2	40	23	65	—	—	9	3	12	77	39.00%
165	LL.B. (Special) -	154	18	115	21	136	—	136	—	3	60	6	69	—	—	12	—	12	81	59.00%
166	*D.T.P.	114	27	73	14	87	@5	—	—	—	38	43	—	—	—	12	12	55	63.00%	
167	*D.L.P.	71	15	50	6	56	@1	—	—	—	20	21	—	—	—	2	2	23	34.00%	
168	*LL.M.—Part I	32	10	20	2	22	—	—	—	—	9	9	—	—	—	1	1	10	45.00%	
169	LL.M.—Part II	10	2	7	1	8	—	—	—	5	—	5	—	—	—	1	1	6	75.00%	
170	LL.M. (Old Course)	11	4	6	1	7	—	—	—	1	—	1	—	—	—	1	1	2	29.00%	

\* No Class is awarded.



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
171	M.A. (Fine)—Painting		3	—	1	2	3	1	—	—	—	1	—	2	—	—	2	3	100.00%
172	M.A. (Fine)—Sculpture		2	—	2	—	2	—	1	—	—	1	—	—	—	—	—	1	50.00%
173	M.A. (Fine)—Applied Arts		1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100.00%
174	M.A. (Fine)—Graphic Art		2	1	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100.00%
175	M.A. (Fine)—Art History		1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100.00%
176	B.A. (Fine)—Painting		6	—	3	3	6	—	2	1	—	3	—	—	3	—	6	100.00%	
177	B.A. (Fine)—Sculpture		1	—	1	—	1	—	1	—	—	1	—	—	—	—	1	100.00%	
178	B.A. (Fine)—Applied Arts		10	—	9	1	10	—	—	4	3	7	—	—	—	—	7	70.00%	
179	Post-Dip. in Fine Arts Painting		1	—	1	—	1	—	1	—	—	1	—	—	—	—	1	100.00%	
180	Diploma in Fine Arts Painting		2	—	1	1	2	—	1	—	—	1	—	—	1	—	2	100.00%	
181	Diploma in Fine Arts Applied Arts		19	—	18	1	19	—	—	8	7	15	—	—	—	—	15	78.95%	
182	M.Mus.		7	1	5	1	6	—	2	—	—	2	1	2	—	—	5	83.33%	
183	B.Mus.		22	1	7	14	21	—	3	1	3	7	1	3	6	3	20	95.23%	
184	Dip. in Music		24	2	8	14	22	—	2	2	2	6	2	4	1	2	15	68.00%	
185	Dip. in Tabla		14	—	14	—	14	—	2	6	3	11	—	—	—	—	11	79.00%	
186	Dip. in Dance		10	—	1	9	10	—	—	—	1	1	—	1	2	6	9	100.00%	
187	Diploma in Dramatics		13	2	7	4	11	—	2	4	1	7	—	1	2	1	4	11	100.00%
*188	P.G. Diploma in Museology		5	—	5	—	5	—	—	—	5	5	—	—	—	—	5	100.00%	
*189	B.Sc. (Home)		141	—	—	141	141	—	—	—	—	—	—	£27 %68+	10	105	105	74.04%	
*190	M.Sc. (Home)		33	—	—	33	33	—	—	—	—	—	—	£20 %9	—	29	29	84.84%	
*191	P.G.Dip. in Dietetics		12	—	—	12	12	—	—	—	—	—	—	£2 %10	—	12	12	100.00%	
*192	P.G. Dip. in Pre-School Edu.		20	—	—	20	20	—	—	—	—	—	—	3 %11+	2	16	16	80.00%	
*193	M.S.W.		37	—	25	12	37	—	—	—	23	—	—	—	—	11	34	93.78%	
*194	Ph.D. (Arts)		4	—	2	2	4	—	—	—	2	—	—	—	—	2	4	100.00%	
*195	Ph.D. (Science)		11	—	7	2	9	—	—	—	7	—	—	—	—	2	9	100.00%	
*196	Ph.D. (Edu. & Psy.)		14	—	11	3	14	—	—	—	11	—	—	—	—	3	14	100.00%	
*197	Ph.D. (Commerce)		1	—	1	—	1	—	—	—	1	—	—	—	—	—	1	100.00%	
*198	Ph.D. (Fine Arts)		1	—	1	—	1	—	—	—	1	—	—	—	—	—	1	100.00%	

\* No Class is awarded. @ Passed with 'A' Grade. £ Passed with 'B' Grade. + Passed with 'C' Grade. Ph.D. Thesis information given from 1-4-76 to 30 9-76.

## Results of the University Examinations of October-November, 1976.

Appendix VII

Sr. No.	Examination	Number appeared				Number passed														Grand Total	Percentage of passes
		No. Regd.	No. Absent	Men	Women	Men							Women								
						Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
1	Prep. Arts	528	54	302	172	474	—	—	—	1	102	103	—	—	2	68	70	173	37.4%		
2	F.Y.B.A.	390	58	242	90	332	—	—	—	1	91	92	—	—	—	37	37	129	38.86%		
*3	S.Y.B.A.	571	71	308	192	500	—	—	—	—	78	78	—	—	—	64	64	142	29.4%		
4	T.Y.B.A.	164	34	101	29	130	—	—	—	2	45	47	—	1	1	17	19	66	50.77%		
*5	M.A. (Part I)	21	5	15	1	16	—	—	—	—	15	15	—	—	—	1	1	16	100%		
6	M.A. (Part II)	23	1	14	8	22	—	—	1	2	10	13	—	1	—	5	6	19	86.36%		
7	Prep. Science	292	18	243	31	274	—	12	57	58	127	—	1	5	11	17	144	52.55%			
8	F.Y.B.Sc.	155	9	121	25	146	—	—	—	2	50	52	—	—	—	19	19	71	48.63%		
*9	S.Y.B.Sc.	143	13	104	26	130	—	—	—	—	26	26	—	—	—	9	9	35	26.92%		
10	T.Y.B.Sc.	142	15	111	16	127	—	3	9	41	53	—	—	—	4	6	10	63	50.00%		
*11	M.Sc. (Previous)	44	3	39	2	41	—	—	—	—	29	29	—	—	—	1	1	30	73.17%		
12	M.Sc. (Final)	9	—	7	2	9	—	—	—	3	2	5	—	—	1	1	2	7	77.78%		
13	Prep. Commerce	301	23	198	80	298	—	—	—	7	83	90	—	—	6	31	37	127	45.29%		
14	F.Y.B.Com.	494	49	336	109	445	—	—	—	7	159	165	—	—	3	67	70	236	53.29%		
*15	S.Y.B.Com.	384	49	255	80	335	—	—	—	—	109	109	—	—	—	44	44	153	45.67%		
*16	B.Com. (Under O.Com. 25)	9	4	4	1	5	—	—	—	—	2	2	—	—	—	—	—	2	40.00%		
*17	B.Com. (Under O.Com. 27)	25	1	18	6	24	—	—	—	—	11	11	—	—	—	5	5	16	66.66%		
18	B.Com.	310	52	202	56	258	—	—	—	7	64	71	—	—	2	22	24	95	37.82%		

\* No Class is awarded.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*19	M. Com. (Part I)	79	22	54	3	57	—	—	—	31	31	—	—	—	2	2	33	57.88%
20	M. Com. (Part II)	49	9	36	4	40	—	—	6	17	23	—	—	1	3	4	27	67.50%
21	P.G. Diploma in Banking	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*22	M.D. (Br. I)—Medicine	7	—	6	1	7	—	—	—	4	4	—	—	—	—	—	4	57.14%
*23	M.D. (Br. II)—Pathology	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*24	M.D. (Br. V)—Obst. & Gynae.	4	—	3	1	4	—	—	—	1	1	—	—	—	—	—	1	25.00%
*25	M.D. (Br. VI)—Paediatrics	3	—	2	1	3	—	—	—	1	1	—	—	—	—	—	1	66.66%
*26	M.D. (Br. VII)—Anaesthesia	2	—	1	1	2	—	—	—	1	1	—	—	—	—	—	2	100.00%
*27	M.D. (Br. VIII)—Preventive & Social Medicine	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*28	M.D. (Br. X)—Radiodiagnosis	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*29	M.S. (Br. I)—Surgery	10	—	10	—	10	—	—	—	6	6	—	—	—	—	—	6	60.00%
*30	M.S. (Br. II)—Anatomy	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*31	M.S. (Br. III)—Orthopaedics	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%
*32	M.S. (Br. IV)—Oto-Rhino-Laryngology	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*33	M.S. (Br. V)—Ophthalmology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*34	M.Sc. (Medical)—Part I	11	—	8	3	11	—	—	—	5	5	—	—	—	3	3	8	72.72%
*35	M.Sc. (Medical)—Part II	8	—	5	3	8	—	—	—	4	4	—	—	—	2	2	6	75.00%
*36	Diploma in Ophthalmology	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*37	Diploma in Anaesthesiology	3	—	—	3	3	—	—	—	—	—	—	—	—	3	3	3	100.00%
*38	Diploma in Laryngology and Otology	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*39	Diploma in Child Health	4	—	4	—	4	—	—	—	2	2	—	—	—	—	—	2	50.00%
*40	Diploma in Tuberculous Diseases	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*41	Diploma in Clinical Pathology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*42	Diploma in Obstetrics and Gynaecology	3	—	1	2	3	—	—	—	1	1	—	—	—	2	2	3	100.00%
*43	Diploma in Medical Radio Diagnosis	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%

\* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*44	Diploma in Venerology & Dermatology	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*45	First M.B.B.S. (Spt.)	154	—	123	31	154	—	—	—	91	91	—	—	—	23	23	114	74.31%
*46	First M.B.B.S. (December)	42	—	34	8	42	—	—	—	25	25	—	—	—	6	6	31	73.81%
*47	Third M.B.B.S.	129	3	112	14	126	—	—	—	79	79	—	—	—	12	12	91	72.22%
*48	Third Year Physiotherapy	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
49	First Year Diploma in C.M.E.	168	4	164	—	164	—	—	—	67	67	—	—	—	—	—	67	40.00%
50	Second Year Diploma in C.M.E.	144	5	139	—	139	—	—	—	61	61	—	—	—	—	—	61	44.15%
51	Diploma in Civil Engg.	30	5	25	—	25	—	1	3	12	16	—	—	—	—	—	16	66.66%
52	Diploma in Mechanical Engg.	33	4	29	—	29	—	—	—	10	10	—	—	—	—	—	10	34.48%
53	Diploma in Electrical Engg.	28	8	20	—	20	—	—	—	6	7	—	—	—	—	—	7	35.00%
*54	Diploma in Mechanical Engg. (Under O.T.E. 155)	5	2	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
*55	Diploma in Electrical Engg. (Under O.T.E. 162)	10	5	5	—	5	—	—	—	2	2	—	—	—	—	—	2	40.00%
56	Diploma in Textile Chemistry	10	5	5	—	5	—	—	—	1	2	3	—	—	—	—	3	60.00%
*57	Diploma in Textile Chemistry (Under O.T.E. 184)	6	1	5	—	5	—	1	—	3	3	4	—	—	—	—	4	80.00%
58	Diploma in Textile Technology	8	—	8	—	8	—	—	—	1	2	3	—	—	—	—	3	37.5%
*59	I Sem. of S.Y. Dip. (CME)—(EDC)	152	20	132	—	132	—	—	—	29	29	—	—	—	—	—	29	21.96%
60	II Sem. of S.Y. Dip. (CME)—(EDC)	52	3	49	—	49	—	—	—	20	20	—	—	—	—	—	20	40.81%
*61	I Sem. of Final DCE—(EDC)	16	—	16	—	16	—	—	—	11	11	—	—	—	—	—	11	68.75%
62	II Sem. of Final DCE—(EDC)	7	—	7	—	7	—	—	—	3	3	—	—	—	—	—	3	42.85%
*63	I Sem. of Final DCE—(EDC)	34	3	31	—	31	—	—	—	19	19	—	—	—	—	—	19	61.29%
64	II Sem. of Final DCE—(EDC)	6	1	5	—	5	—	—	—	3	3	—	—	—	—	—	3	60.00%
*65	I Sem. of Final (DEE)—EDC	39	8	31	—	31	—	—	—	13	13	—	—	—	—	—	13	41.93%
66	II Sem. of Final (DEE)—EDC	20	3	17	—	17	—	—	—	2	2	—	—	—	—	—	2	11.76%
*67	I Sem. of F.Y. Dip. (OPF)	43	1	42	—	42	—	—	—	31	31	—	—	—	—	—	31	73.81%
69	II Sem. of F.Y. Dip. (OPF)	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	00.00%
*70	I Sem. of S.Y. Dip. (OPF)	39	—	39	—	39	—	—	—	—	37	37	—	—	—	—	37	95.00%

\* No Class is awarded.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
71	II Sem. of S.Y. Dip. (OPF)	2	—	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50.00%
*72	I Sem. of T.Y. Dip. (OPF)	35	—	35	—	35	—	—	—	34	34	—	—	—	—	—	34	97.1%
73	II Sem. of T.Y. Dip. (OPF)	2	1	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*74	I Sem. of Final Dip. (OPF)	44	—	44	—	44	—	—	—	43	43	—	—	—	—	—	43	97.8%
*75	I Sem. of P.D. Dip. in Construction Engg.	9	1	8	—	8	—	—	—	7	7	—	—	—	—	—	7	87.5%
*76	I Sem. of P. D. Dip. in Automobile Engg.	4	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75%
*77	I Sem. of P. D. Dip. in Ref. & Air Conditioning	9	1	8	—	8	—	—	—	7	7	—	—	—	—	—	7	87.5%
78	II Sem. of P. D. Dip. in Ref. & Air Conditioning	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*79	I Sem. of B.E. I (CME, Chem, Met.)	419	5	406	8	414	—	—	—	311	311	—	—	—	4	4	315	76.8%
80	II Sem. of B.E. I (CME, Chem, Met.)	127	6	120	1	121	—	—	—	70	70	—	—	—	1	1	71	57.72%
*81	I Sem. of B.E. II (CME, Chem, Met.)	409	2	391	8	399	—	—	—	279	279	—	—	—	7	7	286	71.80%
82	II Sem. of B.E. II (CME, Chem, Met.)	70	1	69	—	69	—	—	—	44	44	—	—	—	—	—	44	63.77%
*83	I Sem. of B.E. III (CME, Chem, Met.)	360	2	354	4	358	—	—	—	252	252	—	—	—	2	2	254	70.93%
84	II Sem. of B.E. III (CME, Chem, Met.)	48	2	46	—	46	—	—	—	28	28	—	—	—	—	—	28	63.63%
*85	I Sem. of B.E. IV (CME, Chem, Met., Electro.)	374	5	367	2	369	—	—	—	332	332	—	—	—	—	—	332	89.9%
86	II Sem. of B.E. IV (CME, Chem, Met., Electro.)	57	3	54	—	54	—	—	—	45	45	—	—	—	—	—	45	83.3%
*87	I Sem. of B.E. V (Civil)	149	—	148	1	149	—	—	—	140	140	—	—	—	1	1	141	94.56%
*88	I Sem. of B.E. V (Mech.)	96	2	94	—	94	—	—	—	91	91	—	—	—	—	—	91	96.59%

\* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*89	I Sem. of B.E. V (Elect.)	59	—	59	—	59	—	—	—	—	59	59	—	—	—	—	59	100.00%
*90	I Sem. of B.E. V (Chem.)	39	2	37	—	37	—	—	—	—	37	37	—	—	—	—	37	100.00%
*91	I Sem. of B.E. V (Met.)	34	2	32	—	32	—	—	—	—	31	31	—	—	—	—	31	96.85%
*92	I Sem. of B.E. V (Electro.)	30	—	29	1	30	—	—	—	—	29	29	—	—	1	1	30	100.00%
93	II Sem. of B.E. V (Mech.)	1	—	1	—	1	—	1	—	—	—	1	—	—	—	—	1	100.00%
94	II Sem. of B.E. V (Elect)	5	—	5	—	5	—	1	4	—	5	—	—	—	—	—	5	100.00%
95	II Sem. of B.E. V (Met.)	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
96	B.Tech. (Mech.)-5½ year Degree Course	8	—	8	—	8	5	3	—	—	8	—	—	—	—	—	8	100.00%
96	B.Tech. (Elect.)-5½ year Degree Course	8	—	8	—	8	4	4	—	—	8	—	—	—	—	—	8	100.00%
*97	I Sem. of B.E. I (Electro.)	11	—	11	—	11	—	—	—	—	9	9	—	—	—	—	9	81.8%
98	II Sem. of B.E. I (Electro.)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	2	100.00%
*99	I Sem. of B.E. II (Electro.)	19	—	18	1	19	—	—	—	—	14	14	—	—	1	1	15	78.9%
100	II Sem. of B.E. II (Electro.)	4	—	4	—	4	—	—	—	—	3	3	—	—	—	—	3	75.68%
101	I Sem. of B.E. III (Electro.)	22	3	19	—	19	—	—	—	—	14	14	—	—	—	—	14	73.68%
*102	M.E. (Civil)-Part I	3	—	3	—	3	—	—	—	—	2	2	—	—	—	—	2	66.66%
*103	M.E. (Mech.)-Part I	3	—	3	—	3	—	—	—	—	1	1	—	—	—	—	1	33.33%
*104	M.E. (Elect.)-Part I	4	1	3	—	3	—	—	—	—	1	1	—	—	—	—	1	33.33%
*105	M.E. (Civil.)-Part II	11	1	10	—	10	—	—	—	—	7	7	—	—	—	—	7	70.50%
*106	M.E. (Mech.)-Part II	9	1	8	—	8	—	—	—	—	7	7	—	—	—	—	7	87.00%
*107	M.E. (Elect.)-Part II	7	2	5	—	5	—	—	—	—	5	5	—	—	—	—	5	100.00%
*108	M.E. (Civil)-Part III	1	—	1	—	1	—	—	—	—	1	1	—	—	—	—	1	100.00%
*109	M.E. (Civil)-Part IV	3	1	2	—	2	—	2	—	—	2	—	—	—	—	—	2	100.00%
110	M.E. (Mech.)-Part IV	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	2	100.00%
111	M.E. (Elect.)-Part IV	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
*112	M.E. (Met.)-Part IV	3	1	2	—	2	—	2	—	—	—	—	—	—	—	—	2	100.00%
113	I Sem. of F. Text. (Engg. & Tech.)	93	5	87	1	88	—	—	—	—	49	49	—	—	1	1	50	56.18%
114	II Sem. of F. Text. in (Engg. & Tech.)	28	1	27	—	27	—	—	—	—	16	16	—	—	—	—	16	55.55%

\* No Class is awarded.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*115	I Sem. of S.Text. (Engg. & Tech.)	86	—	86	—	86	—	—	—	68	68	—	—	—	—	—	68	79.07%
116	II Sem. of S.Text. (Engg. & Tech.)	24	1	23	—	23	—	—	—	16	16	—	—	—	—	—	16	69.56%
117	I Sem. of T.Text. (Engg.)	18	—	18	—	18	—	—	—	16	16	—	—	—	—	—	16	88.88%
118	I Sem. of T.Text. (Tech.)	37	—	37	—	37	—	—	—	26	26	—	—	—	—	—	26	70.27%
119	II Sem. of T.Text. (Engg.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
120	II Sem. of T.Text. (Tech.)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
121	T.Text. (Tech.)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%
*122	I Sem. of B. Text. (Engg.)	5	—	5	—	5	—	—	—	5	5	—	—	—	—	—	5	100.00%
*123	I Sem. of B. Text. (Tech.)	40	1	39	—	39	—	—	—	38	38	—	—	—	—	—	38	97.43%
124	B.Text. (Engg.)—O.C.	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
125	B. Text. (Tech.)—O.C.	5	—	5	—	5	—	—	—	5	5	—	—	—	—	—	5	20.00%
*126	M.Text. (Engg.)—Part II	5	—	5	—	5	—	—	—	5	5	—	—	—	—	—	5	100.00%
127	M.Text. (Engg.)—Part IV	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*128	I Sem. of M.Sc. (Applied Physics)	9	—	9	—	9	—	—	—	7	7	—	—	—	—	—	7	77.77%
*129	II Sem. of M.Sc. (Applied Physics)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100.00%
*130	III Sem. of M.Sc. (Applied Physics)	5	—	5	—	5	—	—	—	3	3	—	—	—	—	—	3	60.00%
*131	I Sem. of M.Sc. (Applied Maths.)	5	1	3	1	4	—	—	—	1	1	—	—	—	—	—	1	25.00%
*132	III Sem. of M.Sc. (Applied Maths.)	5	—	4	1	5	—	—	—	3	3	—	—	—	—	—	4	80.00%
*133	I Sem. of F.Y. B.Sc. (Tech.)— Text. Chem.	9	—	9	—	9	—	—	—	9	9	—	—	—	—	—	9	100.00%
134	I Sem. of B.Pharm. I	29	—	17	12	29	—	—	—	16	16	—	—	—	—	—	28	96.5%
135	II Sem. of B.Pharm. I	4	—	3	1	4	—	—	—	3	3	—	—	—	—	—	4	100.00%
*136	I Sem. of F.Y. B.Pharm. II	33	—	26	7	33	—	—	—	26	26	—	—	—	—	—	23	100.00%
137	II Sem. of B.Pharm. II	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100.00%
*138	I Sem. of B.Pharm. III	33	—	26	7	33	—	—	—	26	26	—	—	—	—	—	32	96.66%
*139	I Sem. of Final Y. B.Pharm.	27	—	21	6	27	—	—	—	21	21	—	—	—	—	—	27	100.00%
*140	I Sem. of B.Arch. I	34	—	21	13	34	—	—	—	19	19	—	—	—	—	—	32	94.11%
141	II Semester of B.Arch.	13	—	10	3	13	—	—	—	8	8	—	—	—	—	—	9	69.23%
*142	I Sem. of B.Arch. II	36	—	26	10	26	—	—	—	15	15	—	—	—	—	—	25	69.44%
143	II Sem. of B.Arch. II	12	—	10	2	12	—	—	—	4	4	—	—	—	—	—	6	50.00%

\* No Class is awarded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*144	I Sem. of B.Arch. III	39	—	27	12	39	—	—	—	—	21	21	—	—	10	10	31	79.48%
145	II Sem. of B.Arch. III	9	—	7	2	9	—	—	—	—	6	6	—	—	2	2	8	88.88%
*146	I Sem. of B.Arch. IV	40	—	29	11	40	—	—	—	—	25	25	—	—	10	10	35	87.50%
147	II Sem. of B.Arch. IV	6	2	3	1	4	—	—	—	—	1	1	—	—	—	—	1	16.66%
*148	I Sem. of Final Year B.Arch.	36	—	26	10	36	—	—	—	—	24	24	—	—	10	10	34	94.44%
149	II Sem. of Final Year B.Arch.	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	00.00%
150	B.Arch. (O.C.)	3	1	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%
151	First LL.B. (General)	244	67	166	11	177	—	1	5	50	56	—	—	1	3	4	60	34.09%
152	Second LL.B. (General)	110	21	76	13	89	—	—	9	27	36	—	—	—	8	8	44	49.42%
153	LL.B. (Special)	52	11	38	3	41	—	—	5	9	14	—	—	—	2	2	16	39.02%
*154	P.G. Diploma in Labour Laws	19	8	10	1	11	—	—	—	6	6	—	—	—	—	—	6	54.54%
*155	P.G. Diploma in Taxation Laws	27	13	14	—	14	—	—	—	6	6	—	—	—	—	—	6	37.50%
*156	LL.M. (Part I)	11	6	5	—	5	—	—	—	3	3	—	—	—	—	—	3	60.00%
157	M.Sc. (Home)	8	—	2	6	8	—	—	—	—	—	—	—	—	—	—	8	100.00%
158	B.Sc. (Home)	17	1	—	16	16	—	—	—	—	—	—	—	—	—	—	9	56.25%
*159	P.G. Diploma in Industrial Relation & Personnel Management	15	—	13	2	15	—	—	—	—	13	—	—	—	—	2	15	100.00%
*160	Ph.D. (Arts)	3	—	1	2	3	—	—	—	—	—	—	—	—	—	2	3	—
*161	Ph.D. (Science)	16	—	12	4	16	—	—	—	—	12	—	—	—	—	4	16	—
*162	Ph.D. (Edu. & Psy.)	9	—	5	4	9	—	—	—	—	—	—	—	—	—	4	9	—
														</				

\* No Class is awarded.

† Passed with A Grade.

‡ Passed with B Grade.

§ Passed with C Grade.



# CAPITAL ACCOUNTS

Appendix VIII

## I—University General Fund

(Subject to Audit)

1976-77

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1976	9,76,400-75		Building Works	4,19,661-19	
Interest	78,909-43		Advance to Press	—	
Grant from the State Government for Water Supply scheme in the University Campus	2,31,000-00		Purchase of Furniture, Equipment etc.	—	
Grant from the State Government towards works of original nature approved by the Government	1,17,000-00		Closing Balance	9,83,648-99	
<b>Total</b>	<b>14,03,310-18</b>		<b>Total</b>	<b>14,03,310-18</b>	

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## II—Ayurvedic Research Fund

(Subject to Audit)

1976-77

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1976	10,91,696-34		Amount transferred towards the excess recurring expenditure over the State Government Grant for Sheth U.P.A.R. Unit	44,960-08	
Interest	1,04,956-54		Closing Balance	11,51,692-80	
<b>Total</b>	<b>11,96,652-88</b>		<b>Total</b>	<b>11,96,652-88</b>	

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### III—Post-graduate Instruction and Research Fund (Subject to Audit)

1976-77

Receipts		Payments	
Sr. No.	Particulars	Rs. P.	Rs. P.
	Opening Balance as on 1-4-1976	37,91,715-98	
Interest	(i) Expenditure on Research Schemes (including Research Assistants)		54,623-34
	(ii) Two Post-Doctoral Fellowships @ Rs. 400/- p.m. each and Contingent Grant @ Rs. 1,000/- p.a. each	3,78,987-99	
	(iii) 12 Scholarships of Rs. 250/- p.m. each and Contingent Grant of Rs. 500/- p.a. per scholar		25,405-17
	(iv) Amount transferred towards the expenditure on the introduction of Post-graduate Courses in Technology & Engineering		34,500-00
	(v) Closing Balance		40,56,175-46
Total		41,70,703-97	41,70,703-97

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### REVENUE ACCOUNTS

(Subject to Audit)  
1976-77

Appendix IX

Sr. No.	Particulars	Receipts Rs. P.	Sr. No.	Particulars	Disbursements Rs. P.
1	2	3	1	2	3
I (A) Grants from the State Government (1 to 2)			I Administration		
(1) Block Grant from the State Government		1,36,29,660-00	II Examination Charges (1 to 13)		8,56,667-72
(2) Additional Block Grants from the State Government		1,34,15,000-00	III Publications		10,18,066-04
(a) Towards the expenditure on development Plan, Schemes which have completed five years or stipulated period and hence become 100% liability of the State Government		2,14,660-03	IV Remuneration to Lecturers		8,167-67
(b) 100% Grant towards the additional Expenditure on the increase in the rates of Dearness Allowance, House Rent Allowance and Compensatory Local Allowance during the currency of the Triennium			V Travelling Allowance		—
			VI Printing, Stationery and Postages		55,237-11
			VII Interest on Bank Overdraft and Loans and Repayment of Loans		1,23,981-82
			VIII Maintenance of Buildings and Roads (including Residential Quarters and N.C.C. Buildings)		9,62,453-88
			IX Maintenance of Gardens		4,32,556-21
			X Games, Sports and Students' Welfare and Other Activities		79,032-37
			XI Miscellaneous (A, B and C)		7,18,771-56
			(A) Memberships and Contributions		2,35,533-98
			(B) Office Equipment		16,939-58
			(C) Other Items		14,705-13
					2,03,889-27

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1	2	3	1	2	3
<b>(c) 3½% Grant on the Wage Bill of the preceding year on a cumulative basis during each year of the triennium for Annual increments etc.</b>					
(d) Towards filling up of Vacant Posts (Subject to State Government Approval)	—				19,29,389-48 43,28,180-03
(e) Towards Flood damage works of repairs	9,660-00				11,29,100-74 9,18,154-98
(f) Towards the works of Special Repairs Buildings	2,05,000-00				50,91,138-01 2,36,649-88
(B) Grants from the University Grants Commission towards the Grants Commission Unit in the University	10,000-00				8,00,675-71 12,09,968-64 3,55,384-04
<b>D Fees from Students (A + B + C)</b>	74,28,307-57				
(A) Academic :					
(i) Tuition Fees and Miscellaneous Income from Faculties and Institutions	57,48,612-57				
Faculties :					
(a) Faculty of Arts	8,72,260-50				2,26,816-90 7,18,482-75
					1,14,904-49 85,653-25 1,61,693-86
					5,95,966-60

1	2	3	1	2	3
(b) Faculty of Science	10,26,473-88		(p) Polytechnic ( Diploma Courses in Civil, Mechanical and Electrical Engineering)		22,15,627-33
(c) Faculty of Education and Psychology	2,33,090-00		(q) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering		98,935-22
(d) Faculty of Commerce	9,32,260-00		(r) Centre of Advanced Study in Education		1,14,884-65
(e) Faculty of Technology and Engineering	11,67,211-60		XIII (a) Smt. Hansa Mehta University Library		8,18,826-06
(f) Faculty of Law	2,76,730-00		XIV University Guest House		28,222-87
(g) Faculty of Fine Arts	78,486-80		XV University Auxiliary Services		10,14,382-91
(h) Faculty of Home Science	3,86,456-11		(a) M. S. University of Baroda Press (Sadhana Press)		6,70,341-33
(i) Faculty of Social Work	52,593-00		(b) M. S. University Stationary Unit		3,11,501-16 32,540-42
Institutions :			(c) M. S. Uni. Publication Sales Unit		17,46,110-45
(j) College of Indian Music, Dance and Dramatics	61,553-76 34-25		XVI Halls of Residence for Students		77,655-83
(k) Sanskrit Mahavidyalaya			XVII Sheth U. P. Ayurvedic Research Unit		
(l) Shri M. K. Amin Arts & Science College & College of Commerce Padra	2,77,637-30 2,91,722-97		XVIII Net Expenditure on Development Schemes which have completed the matching Share period		—
(m) Polytechnic ( Diploma courses in Civil, Mechanical and Electrical Engineering and Model Diploma courses in Petrochemicals )					
(n) Extended Diploma courses in Civil, Mechanical and Electrical Engineering	41,172-40				



1	2	3	1	2	3
(ii) Fees for Enrolment etc.:					
	(a) For Enrolment Certificates	46,820-00			
	(b) For Post-graduate Registration	4,110-00			
	(B) Examination Fees	12,56,156-60			
	(C) Other Fees	4,23 538-20			
III	Income from Halls of Residence for students	8,85,195-10			
IV	Income from Buildings, Lands and Other Properties	3,81,201-68			
V	Health Services—University Health Centre	18,091-72			
VI	University Auxiliary Services				
	(a + b + c)	10,00,677-16			
	(a) Income from M. S. University of Baroda Press (Sadhana Press)	5,70,064-41			
	(b) Income from M. S. University Stationery Unit	3,20,184-00			
	(c) Income from Publications	1,10,428-75			
VII	Miscellaneous Receipts	2,89,135-98			
VIII	Sheth U.P. Ayurvedic Research Unit	77,655-83			
	(1) State Government Grant	30,000-00			
	(2) Income from Out-patient Ward	2,695-75			
	(3) Excess Recurring Expenditure met from Ayurvedic Research Fund	44,960-08			
1	2	3	1	2	3

IX Transfer from Insurance Fund towards payment of Insurance Premium on insurance of Buildings Equipments, Books etc.

2,11,363-47

Total : Receipts: Rs. 2,39,31,288-21

ADD : Excess of Disbursements  
OVER RECEIPTS i.e.  
DEFICIT

46,25,984-83

Grand Total: Rs. 2,85,57,273-04

Grand Total 2,85,57,273-04



## THE MAHARAJA SAYAJIRAO

## Statement of student residents

Faculty/Institution	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Shri Maharshi Arvind Hall	Shri Sardar Patel Hall	Professor T. K. Gajjar Hall	Dr. Jivraj Mehta Hall	Lal Bahadur Shastri Hall
Prep. Science	23	15	21	13	26	22	13
Prep. Arts.	—	1	1	—	1	—	1
Prep. Com.	4	2	4	1	2	2	2
Arts.	—	1	1	5	11	5	14
Commerce	6	9	11	7	18	15	12
Science	29	12	55	24	15	33	16
Edn. Psy.	1	—	1	1	3	—	7
Tech. Engg.	71	126	66	95	115	73	51
Polytechnic	9	6	2	19	14	5	12
Medicine	19	6	16	10	13	31	6
Social Work	1	—	—	—	—	1	—
Fine Arts	6	4	4	11	8	10	7
Music	—	—	—	—	—	—	1
Law	3	1	2	1	2	1	1
Home Science	—	—	—	—	—	—	—
Total :	172	183	184	187	228	198	143

## UNIVERSITY OF BARODA

during 1976-77

Shri Nusservanji Vakil Hall	Shri Rabindra-nath Tagore Hall	Shri M. Vish-vesaraya Hall	Siddharaj Jaysinh Hall	V. S. Hall	Boys Total	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Kasturba Gandhi Hall	Girls Total	Grand Total
12	36	30	30	—	241	6	3	6	3	18	259
—	2	—	1	—	7	1	—	1	6	8	15
—	3	—	2	—	23	2	2	2	1	7	30
1	6	13	3	14	84	19	20	16	12	76	151
11	25	16	20	5	163	11	4	9	4	28	191
19	28	18	33	52	341	36	28	29	7	100	441
26	—	17	3	7	42	11	15	5	2	33	75
2	—	116	123	28	1073	6	8	4	1	19	1092
53	156	75	—	—	278	—	—	—	—	—	278
30	56	50	4	3	132	28	14	9	3	54	186
5	10	9	3	10	15	4	—	8	2	14	29
—	—	—	12	12	92	20	15	19	5	59	151
7	1	10	4	1	9	3	2	3	2	10	19
—	1	2	10	3	33	4	2	3	1	10	43
—	6	3	10	—	—	99	80	98	46	323	325
—	—	—	—	—	—	—	—	—	—	—	—
166	330	284	323	135	2533	250	193	212	95	750	3283



## Grants for Development and Research Schemes 1976-77

<i>Sr. No.</i>	<i>Name of the Agency</i>	<i>Grant Rs.</i>
1.	University Grants Commission	68,01,207-90
2.	Ministry of Education, Government of India	3,63,710-71
3.	Council of Scientific and Industrial Research	51,805-62
4.	Indian Council of Social Science Research	28,765-50
5.	Government of Gujarat ( Matching Grant )	6,06,902-00
6.	Government of Gujarat ( Research and other Schemes )	1,56,763-50
7.	United States Department of Agriculture ( AM-PL-480 Programmes )	1,38,492-64
8.	Director General, Archaeological Survey of India	50,000-00
9.	Gujarat Electricity Board	5,838-89
10.	Central Social Welfare Board	2,62,700-00
11.	National Council of Educational Research and Training	4,691-43
12.	Indian Council of Agricultural Research	15,140-00
13.	Ministry of Defence Research & Development Organisation	13,900-00
14.	Indian Council of Historical Research	4,000-00
15.	Ministry of Health	1,75,950-00
16.	Jyoti Limited, Baroda	25,000-00
Total		87,46,868-19

PAMPHLETS COLLECTION  
Smt Hansa Technological Library  
BARODA