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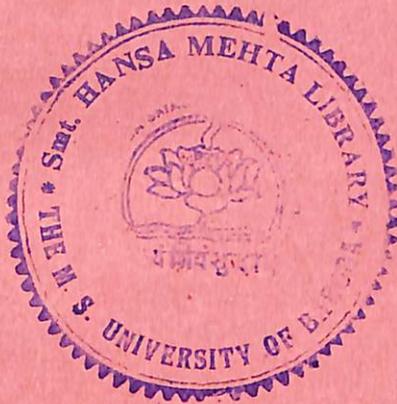
GN S University of Baroda
Thirty second
Annual Report

1980-81

ANNEXURE 4
Enclosure To Senate Item No. 7
Senate

21 DEC 1981

annual report 1980-81



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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

32

OFFICERS OF THE UNIVERSITY

Chancellor
Vice-Chancellor
Pro-Vice-Chancellor

Deans :

Faculty of Arts

Faculty of Science

Faculty of Education and
Psychology

Faculty of Commerce

Faculty of Medicine

Faculty of Technology and
Engineering

Faculty of Law

Faculty of Fine Arts

Faculty of Home Science

Faculty of Social Work

Registrar

Librarian

Other Officers :

Director, Oriental Institute
Principal, College of Indian Music,
Dance and Dramatics

Principal, Sanskrit

Mahavidyalaya

Principal, Polytechnic

Principal, M. K. Amin Arts
and Science College and

College of Commerce, Padra

In-Charge Director,

Centre for Continuing/

Adult Education and

Community Services

Shri Fatehsinhrao Gaekwad
Professor P. J. Madan (upto 31-12-1980)
Professor S. M. Sethna
(Offg. Vice-Chancellor from 1-1-1981)

Professor J. Birje-Patil (upto 27-7-1980)
Professor V. N. Kothari (from 22-8-1980)
Professor S. S. Merh

Professor D. B. Desai
Professor H. P. Chokshi
Dr. P. T. Acharya (expired on 10-3-1981)

Dr. O. D. Gulati (In-Charge from 10-3-1981)
Professor S. M. Sen (upto 30-11-1980)
Professor O. H. Patel (from 1-12-1980)

Professor H. C. Dholakia
Professor Ratan Parimoo
Professor (Kumari) Padma S. Chari
(upto 30-4-1980)

Professor (Smt.) Amita B. Verma
(from 1-5-1980)

Dr. S. R. Yardi

Shri K. A. Amin

Dr. L. M. Padhya

Professor A. N. Jani

Professor M. J. Bhatt

Professor P. K. Dongre

Shri V. H. Shah

Shri I. A. Dave (upto 31-5-1980)

Kumari Saroj Sinha (from 1-6-1980)

Professor (Kumari) Malathi Chakravorty



Thirty-Second Annual Report

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BARODA

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
1980-81

CONTENTS

CHAPTER	SUBJECT	PAGES
	Introduction	1
I	General	7
II	The Syndicate and the Senate	24
III	Other Authorities of the University	27
IV	Boards and Committees	46
V	Research in the University	51
VI	Visiting Lecturers	61
VII	Faculty of Arts	67
VIII	Faculty of Science	89
IX	(A) Faculty of Education and Psychology	116
	(B) University Experimental School	123
X	Faculty of Commerce	127
XI	Faculty of Medicine	
	(A) Medical College	130
	(B) Sheth Ujamshi Pitambardas Ayurvedic Research Unit	137
XII	Faculty of Technology and Engineering	140
XIII	Faculty of Fine Arts	159
XIV	Faculty of Home Science	164
XV	Faculty of Social Work	182
XVI	Faculty of Law	187
XVII	Oriental Institute	189
XVIII	College of Indian Music, Dance and Dramatics	196
XIX	Baroda Sanskrit Mahavidyalaya	199
XX	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	204
XXI	Polytechnic	207
XXII	(A) Centre for Continuing/Adult Education and Community Services	211
	(B) I.A.S. Training Centre	214
	(C) Computer Centre	216

CHAPTER	SUBJECT	PAGES
XXIII	Shrimati Hansa Mehta Library	.. 219
XXIV	The M. S. University of Baroda Press	.. 224
XXV	The M. S. University Union	.. 226
XXVI	General Education Centre	.. 227
XXVII	Students' Welfare Activities	.. 228

Appendices

I	Number of University Students	.. i
II	Number of Non-University Students	.. ii
III	List of Degrees and Diploma Conferred at the Annual and Supplementary Convocations during the year 1980-81	.. iii
IV	Number of Teachers	.. v
V	List of Candidates qualifying for the Ph.D. Degree in 1980-81	.. vi
VI	Result of University Examinations held in March/April, 1980..	.. xii
VII	Results of University Examinations held in October/November, 1980	.. xx
VIII	Capital Accounts	..xxviii
IX	Revenue Accounts	.. xxx
X	Number of Students Admitted in various Halls of Residence during 1980-81	.. xxxvi
XI	Grants for Development and Research Schemes 1980-81	.. xxxviii



His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THIRTY SECOND ANNUAL REPORT- 1980-81

INTRODUCTION

Almost a hundred years ago, His Highness the Maharaja Sir Sayajirao Gaekwad conceived, the idea of establishing a Centre of higher education in the city of Baroda. That idea, has eventually brought into existence what today is the M. S. University of Baroda, manned by devoted staff and a band of teachers of international fame. It is with a certain sense of pride that we present this thirty Second Annual Report, for the year 1980-81 of this great institution before the Senate.

Under the inspiration provided by His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda, the Baroda University Commission was appointed in 1925. The Commission made out a strong case for the establishment of a Unitary Residential University at Baroda having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration. Following a realization of the need for other fields of higher education, the following institutions of higher learning were established in Baroda during the two decades that followed :

- (1) The Secondary Teacher's Training College in 1935,
- (2) The Sayaji Golden Jubilee Science Institute in 1937,
- (3) The Pratapsinh College of Commerce and Economics in 1942 and
- (4) Government orders were passed for the establishment of Medical and Engineering Colleges, which ultimately began functioning from 1949.

With the dawn of freedom in 1947 the doors of opportunities for learning were swung wide open and the Maharaja Sayajirao University, the Teaching Unitary type, came into existence 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 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 recognized into the six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce and Technology and Engineering and three new Faculties and Fine Arts, Home Science and Social Work were also established. In 1951, the Baroda Sanskrit Mahavidyalaya and 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.

Growth of Student Enrolment

The University started with 2,962 students on its roll. In 1980-81 it had 19,238 University students and 2,242 non-University students. The following table gives student enrolment figures for the year 1975-76 to 1980-81:

Year	Total enrolment	Percentage increase/decrease
1975-76		
1976-77	21,138	-10.9
1977-78	20,664	- 2.3
1978-79	19,486	- 5.7
1979-80	19,247	- 1.24
1980-81	18,972	- 1.43
	19,238	+ 1.40

Sex percentage in the different Faculties: The table below gives the percentage of men and women students in the various Faculties and Institutions of the University for the years 1960-61, 1970-71, 1979-80 and 1980-81:

1	1960-61		1970-71		1979-80		1980-81	
	Men	Women	Men	Women	Men	Women	Men	Women
	2	3	4	5	6	7	8	9
Arts	65.7	34.7	37.5	62.5	56.9	43.1	50.0	50.0
Science	87.5	12.5	72.2	27.8	67.6	32.4	66.5	33.5
Education and Psychology	63.0	37.0	30.7	60.3	34.6	65.4	46.9	53.1
Commerce	82.6	17.4	87.6	17.4	63.9	36.1	62.7	37.3
Medicine	82.6	17.4	84.0	16.0	85.1	14.9	85.4	14.6
Technology and Engineering	99.0	1.0	97.7	2.3	94.9	5.1	96.8	3.2
Fine Arts	83.6	16.4	73.0	27.0	76.0	24.0	73.2	26.8
Home Science	—	100.0	0.1	99.9	0.25	99.75	0.1	99.9
Social Work	75.0	25.0	56.0	44.0	70.1	29.9	57.4	42.6
Law	—	—	89.5	10.5	88.7	11.3	89.8	10.2
College of Indian Music, Dance and Dramatics	63.3	36.7	44.1	55.9	49.0	51.0	45.4	54.6
Baroda Sanskrit Mahavidyalaya	85.7	14.3	80.0	20.0	87.0	13.0	62.7	37.3
Polytechnic	99.6	0.4	99.4	0.6	99.4	0.6	98.9	1.1
Shri M. K. Amin Arts and Science College and College of Commerce, Padra.	—	—	90.8	9.2	82.6	17.4	82.3	17.7

Student Enrolment in post-graduate courses has shown a steady rise from 1950-51. It was 304 to start with and in 1980-81 reached 2172.

In 1950-51 there were 2,161 under-graduate students in the different Faculties and Institutions of the University. The figure for 1980-81 is 13,517.

In 1980-81, 3,549 students were enrolled in the different Diploma courses of the University.

Percentage of Student Enrolment in the different Faculties and Institutions

Faculty and Institutions	1976-77	1977-78	1978-79	1979-80	1980-81
Arts	12.1	14.9	16.1	13.7	12.4
Science	8.0	9.7	10.9	10.5	11.2
Education and Psychology	2.1	2.2	2.3	2.6	2.6
Comemrce	15.8	15.8	18.3	20.3	20.4
Medicine	4.3	4.5	5.0	5.2	5.1
Technology and Engineering	14.8	15.9	16.6	17.3	14.3
Fine Arts	1.6	1.9	1.8	1.9	1.8
Home Science	4.9	4.8	4.1	4.2	4.1
Social Work	0.4	0.6	0.5	0.6	0.6
Law	5.8	7.2	7.0	6.0	6.1
M. K. Amin Arts and Science College and College of Commerce, Padra.	3.1	4.1	5.0	5.6	7.2
College of Indian Music, Dance and Dramatics	0.5	0.5	0.6	0.5	0.6
Sanskrit Mahavidyalaya	0.3	0.2	0.3	0.3	0.3
Polytechnic	9.0	10.5	11.3	11.3	13.3
	100.0	100.0	100.0	100.0	100.0

University Teachers :

Staff-Student Ratio :—The total number of teachers (including Teaching Assistants, Senior/Junior Instructors, Tutors, Honorary, Research and Part-time teachers) in the Faculties and Institutions of the University during the year under report was 1,062 (including 172 teachers of the Medical College) as against the total student enrolment of 19,238. This gives an over-all teacher-student

ratio 1 : 18.1. The corresponding number of University teachers and staff-student ratio over the last five years is indicated below :

Year	No. of University Teachers	Student Enrolment	Teacher-Student Ratio
1976-77	1,013	20,664	1 : 20.1
1977-78	1,037	19,486	1 : 18.8
1978-79	1,022	19,247	1 : 18.8
1979-80	1,046	18,972	1 : 18.1
1980-81	1,062	19,238	1 : 18.1

Hostel and Health Services :

Halls of Residence :—With the rapid increase in student enrolment, the pressure of demand from students for accommodation in the University Halls of Residence has been increasing. 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 2,607 men students and 704 women students in the different Halls. The percentage of students residing in the University Hostels works out at 17.2. The corresponding figures for the five years are as under :

Year	Student residing in Hostels			Percentage of Resident students to the Total Enrolment		
	Men	Women	Total	Men	Women	Total
1976-77	2,533	750	3,283	12.3	3.6	15.9
1977-78	2,473	726	3,199	12.7	3.7	16.4
1978-79	2,551	659	3,210	13.3	3.4	16.7
1979-80	2,588	667	3,255	13.6	3.5	17.1
1980-81	2,607	704	3,311	13.5	3.7	17.2

Health Services :—The University Staffs, their families and the students avail themselves of the Health Centre facilities provided by the University Health Centre. The following are the figures for the patients treated daily average attendance over a period of last five years.

Year	Number of Cases Treated					
	Staff and their families	%	Students	%	Total cases	Daily average attendance
1976-77	9,208	30.2	21,295	69.8	30,503	103.4
1978-77	11,547	35.4	21,033	64.6	32,580	105.0
1978-79	23,871	65.2	12,755	34.8	36,626	121.0
1979-80	26,930	76.5	8,287	23.5	35,217	117.0
1980-81	27,938	80.2	6,879	19.8	34,817	117.0

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 them at two Centres (established in 1973-74) one year Kothi and the other in Bajawada and Pratapnagar localities.

The detailed Statement regarding patients (members of University non-teaching staff) treated at these Centres is as under :

	Raopura Centre	Bajwada and Pratapnagar Centre
1. Number of Families who attended the Clinic	70	90
2. Number of times, member from these families attended the Clinic	1,223	1,800
3. Number of days these members were treated	2,308	3,800

Rules for Medical Reimbursement on the lines of those for Government employees were implemented for the teaching and non-teaching staff and their family members, (covered under the Second Pay Commission's Scales of Pay).

Developments

The development activities during the preceding years have been described in the Thirty One Annual Reports published so far. This the Thirty Second Annual Report covers the period from 1st April, 1980 to 31st March, 1981 and is submitted to the Senate in accordance with Section 24 (2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

CHAPTER I—GENERAL

1. Institutions in the University

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

(1) 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) M. K. Amin Arts and Science College and College of Commerce, Padra, (15) Polytechnic, (16) Museum and Picture Gallery and (17) Centre for Continuing/Adult Education and Community Services.

2. Number of Students

The number of University students during the year was 19,238 (13,950 men students and 5,288 women students) while that of non-University students was 2,242 (1,421 men students and 821 women students). The details of the students are given in Appendices I and II.

3. Special Features of the Year

(1) Convocations :

- (i) The Thirtieth Annual Convocation was held on the University Gardens, Baroda on Saturday, 6th December, 1980. Professor P. J. Madan, the Vice-Chancellor presided. Dr. I. G. Patel, Governor of the Reserve Bank of India delivered the Convocation Address. 3,925 degrees and diplomas were conferred.
- (ii) The Twenty first Supplementary Convocation was held on Sunday, 29th March, 1981 in the General Education Auditorium, Baroda. Professor S. M. Sethna, Pro-Vice-Chancellor presided. 664 degrees and diplomas were conferred. Appendix III gives details of degrees and diplomas conferred.

(2) New Courses :

The details of new courses are given in the reports of respective Faculties.

(3) Conferences, Seminars, Workshops :

- (1) Short term Institute for Teachers in English from 4-5-1980 to 25-5-1980 (Faculty of Arts)

- (2) 2nd All India Symposium on Experimental Zoology from 28-1-1981 to 1-2-1981 (Faculty of Science).
- (3) 3rd National Seminar on Banking from 17-3-1981 (Faculty of Commerce).
- (4) 10th Annual Convocation of Indian Society for Technical Education 28th and 29th December, 1980 (Faculty of Technology and Engineering).

(4) *Special Lectures for the year 1980-81 :*

- (a) The Maharaja Sayajirao Memorial Lectures for the year 1980-81 :
 - (i) Science and Humanity 27-1-1981
 - (ii) Science and Humanity 28-1-1981
- (b) Tagore Chair in Humanities of the M. S. University: Professor John Northam of the Department of Modern and Comparative Drama, University of Bristol, England, spent 10 weeks in the Department of English, Faculty of Arts, as Tagore Chair Professor. From 24th November, 1980 to 30th January, 1981 he delivered lectures and gave seminars to students and members of the Department of English in Images of performance with reference to the plays of Shakespeare, strind has been, Beltter resultant. He also directed and produced for the Department and the S. S. Ibsen's Adult Department House in January 28th and 29th.
- (c) The first inaugural public meeting of the Baroda College Centenary, Celebrations was held on 7-12-'80 and Professor J. M. Mehta (Ex-Vice-Chancellor of the University) delivered the first public lecture.

(5) *The 6th Five Year Plan :*

At the instance of the University Grants Commission the University prepared the 6th Five Year Plan of the University for the Development of the Higher Education during this period. The Plan has been submitted to the University Grants Commission for consideration.

(6) *Development Schemes :*

Various schemes financed by the University Grants Commission, the University, Ministries of the Central Government, Departments of the Gujarat Government, Indian Council of Scientific and Industrial Research (CSIR), Indian Council of Social Science Research (ICSSR), Indian Council of Medical Research (ICMR), Indian Council of Agricultural Research (ICAR), United

States Department of Agriculture (USDA), Indian Space Research Organization (ISRO) and several other agencies, were undertaken by teachers and Departments of the University during the year under report. They registered satisfactory progress. The relevant details are given in Chapter V.

(7) *Computer Centre :*

The Computer Centre was inaugurated by Shri H. C. Sarin, then, the advisor to the Government of Gujarat on 20th April, 1980. The details regarding the development, activities, finance and progress of the Computer Centre are given under Section 'C' of Chapter XXII of this Report.

(8) *Buildings :*

(i) The following new Buildings were completed :

- (a) New Building for Department of History, Economics and Foreign Languages and Special Assistance for History Department.
- (b) Building for the Department of Chemistry and Zoology.
- (c) New Building for the Department of Museology.
- (d) Renovation of the Play Box in Music College.
- (e) Shed for the Electrical Engineering Department.

(ii) The following buildings are under constructions :

- (a) Additions and Extension to the Faculty of Science Building for accommodating additional area for the Department of Mathematics, Statistics and Botany.
- (b) Building for Central Instrumentation Facilities and the Architecture Department.
- (c) Building for the Department of Textile Chemistry and Shed for the Department of Textile Engineering Department.
- (d) Shed for the Civil Engineering Department over the first floor of P. G. Hydraulic Department.
- (e) New Building for Library at the Faculty of Technology and Engineering.
- (f) Shed for the Applied Mechanics and Architecture Departments.
- (g) Work for Ground Floor at Computer Centre Building.

(9) *Silver Jubilee Fund* :

A. During the year 1-4-1980 to 31-3-1981, a total amount of 11,51,595-23 was received as donations. The details are as follows:

- (a) Baroda Rayon Corp. Ltd., Bombay donated a sum of Rs. 7,50,000 for the establishment of 'Baroda Rayon Centre for Research in Business Management'. The proposal for setting up the centre was submitted to the Syndicate of Feb. 1981. The Syndicate formed a 3 members Committee headed by Ex V.C. Prof. P. J. Madan, to prepare a Scheme in all details. The report of the Committee is awaited.
- (b) M. S. U. Silver Jubilee Bhagwat Saptah (1979) donated a sum of Rs. 2,53,129-91, out of which Rs. 1,00,000 was earmarked as Bhagwat Saptah Food Subsidy Fund and the receiving amount was deposited in the General Fund.
- (c) A sum of Rs. 40,428-32 was received from Reserve Bank of India for Research Cell in Banking which has been functioning in the Faculty of Commerce.
- (d) A sum of Rs. 1,00,000 was received from Shri Nanalal D. Chokshi for the establishment of a Senior Research Fellowship in Research in The Social Impacts of the Teachings: the writings of Shrimad Vallabhacharya Mahaprabhuji.
- (e) A sum of Rs. 5,000 was received from Indian Aluminium Co. Calcutta for the expenditure two research projects being conducted in the Department of Metallurgy at Faculty of Technology and Engineering.
- (f) A sum of Rs. 3,000/- was received from Surajaba Charitable Trust Fund, Bombay for 'Catch them Young Scheme' of the I.A.S. Training Centre.
- (g) During the year, the interests earned in general and special funds were Rs. 2,00,142-84 and 2,45,921-38 and a small sum of Rs. 36, was also collected.

Thus the total amounts in general funds, special fund and total fund (including interests) amount

General Rs. 22,43,891-05

Special Rs. 69,14,983-88

Rs. 46,71,092-83

B. During the year 1980-81, the total expenditure incurred was Rs. 1,90,707-37, which consisted of

- (a) Rs. 53,838-10 towards I.P.C.L. Centre for Studies in National and International Industrial Development in the Department of Economics, Faculty of Arts.
- (b) Rs. 47,097-43 towards, Research Cell in Banking in Banking Department, Faculty of Commerce.
- (c) Rs. 30,000 for G.S.F.C. Chain in Chemistry Engineering Department, Faculty of Technology and Engineering.
- (d) Rs. 18,026-16 towards, Puja Dongre Ved Adhyayan and Veddotkarsh at Sanskrit Mahavidyalaya.
- (e) Rs. 10,642-69 towards, Research Projects sponsored by Indian Aluminium Co., at Metallurgy Department, Faculty of Technology and Engineering.
- (f) Rs. 7,999-17 towards, O.N.G.C. Senior Research Fellowships at Applied Chemistry Department, Faculty of Technology and Engineering.
- (g) Rs. 5,905-76 towards, Bhagvat Saptah Food Subsidy.
- (h) Rs. 3,196-90 towards, Office expenses including Salary T.A., Contingency etc.
- (i) Rs. 3,000 towards, 'Catch them Young Scheme' at I.A.S. Training Centre.
- (j) Rs. 2,869-84 towards, Shri Ambalal Sarabhai Research Centre in Pharmacy Department, Faculty of Technology and Engineering.
- (k) Rs. 2,185-65 towards, Shri K. H. Patel Gold Medal.
- (l) Rs. 2,205-65 towards, Shri S. K. Roy Gold Medal.
- (m) Rs. 1,440-00 towards, Prince Dhairyashilrao Gackwad Scholarships at Faculties of Arts, Social Work and Home Science
- (n) Rs. 880-00 towards, Sayaji Iron Gold Medal.
- (o) Rs. 800-00 towards, Visnagar Taluka Majoor Sahakari Mandals
- (p) Rs. 720-00 towards, Paramount Gold Medal.

	Expenditures		
	General Funds	Special Funds	Total
upto 31-3-1980	94,820-47	2,13,723-63	3,08,544-10
From 1-4-80 till 31-3-81	3,196-90	1,87,510-47	1,90,707-37
Grand Total	98,017-37	4,01,234-10	4,99,251-47

C. **Balance Account as on 31-3-1981**

	General Fund	Special Fund	Total
Total Receipts	22,43,891-05	46,71,092-83	69,14,983-88
Expenditures	98,017-37	4,01,234-10	4,99,251-47
Balance	21,45,873-68	42,69,858-73	64,15,732-41

(10) *Visitors :*

The following distinguished people visited the M. S. University during the year under report :

- (1) Shri H. C. Sarin, then the advisor to the Government of Gujarat, 20th April, 1980.
- (2) Dr. I. G. Patel, Governor of the Reserve Bank of India, 6th December, 1980.

(11) *Visiting Committees :*

- (i) The expert Committee from the University Grants Commission visited the University in August, 1980, to assess the work and activities of our Computer Centre.

4. **Teaching Staff**

The teaching staff (excluding that in Medical College) consisted of 85 Professors, 163 Readers, 584 Lecturers, 13 Senior Instructors and Ustads, 45 Honorary, Part-time and others, the total being 890. (Appendix IV).

5. **Facilities to the Teaching Staff for further studies**

- (i) Teachers who were granted facilities for participation in International Conferences and Seminar, etc. in India and Abroad during the year 1980-81.

<i>Sr.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
1.	Kum. Asha Nagwekar, Lecturer in Education and Extension (Field Supervisor) Faculty of Home Science	To attend the course on Methodology of Rural Social Research at National Institute of Rural Development, Rajendra Nagar, Hyderabad 16-6-1980 to 5-7-1980.
2.	Dr. (Miss) M. V. Asnani, Lecturer in Zoology, Faculty of Science	Vth All India Sumposium on Comparative Animal Physiology, Department of Zoology, University of Poona, Pune 16-6-1980 to 19-6-1980.
3.	Dr. D. C. Joshi, Reader in Education, Faculty of Education and Psychology	5th Indian Social Science Congress at Udaipur 6-7-1980 to 8-7-1980.
4.	Prof. A. N. Jani, Director, Oriental Institute and Head, Department of Sanskrit, Faculty of Arts	All India Oriental Conference 30th Session, Santiniketan (West Bengal).

<i>Sr.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
5.	Shri J. P. Thaker, Dy. Director, Oriental Institute	All India Oriental Conference 30th Session, Santiniketan (West Bengal).
6.	Dr. (Mrs.) R. K. L. Padmini Agrawal, Reader in Applied Physics, Faculty of Techno- logy and Engineering	10th International Congress for Acoustics a Sydney, Australia 7-18 July, 1980.
7.	Dr. B. B. L. Mathur, Sr. Professor of Pathology and Superintendent S.S.G. Hospital	XIII Congress of the International Academy of Pathology and 4th World Congress of Academic and Environmental Pathology Paris 14-19, September, 1980.
8.	Prof. H. V. Bhavnani, Professor of Civil Engg. (P.T.D.), Faculty of Techno- logy and Engineering	Vth International Clean Air Congress Buenos Aires, Argentina 20-26 October, 1980.
9.	Dr. (Miss) Malti Chakra- vorty, Director, Centre for Continuing/Adult Education and Community Services	Linking Extension Education with Curri- culum, University of Poona, Pune 30-8-1980 to 1-9-1980.
10.	Prof. M. Sreehari, Department of Statistics, Faculty of Science	Second Conference of the Indian Society for Theory of Probability and its applications, I.I.T. Bombay 2-4 December, 1980.

- (ii) Teachers granted Sabbatical leave during the year from 1-4-1980 to 31-3-1981 under O. 209-E :

1. Shri H. Prapanna,
Lecturer in Philosophy,
Faculty of Arts
 2. Prof. V. K. Chavda,
Professor of History,
Faculty of Arts
- To have knowledge of Special Study of various types and techniques of Yoga at Lonawala and Poona.
- To enable him to complete the following three jobs :
1. 19th Century Culture in Gujarat. A Cross Regional Study.
 2. Co. Alexander Walkur. A Mirfian of peace in Gujarat., 1799-1810.
 3. Ediling work of wl. million Miles History of Gujarat. The micro-film MSS was procured from the Indian office Library, London.

Sr.No.	Name and Designation	Purpose
11.	Prof. V. K. Chavda, Professor of History, Faculty of Arts	19th Annual Conference of Institute of Historical Studies Calcutta at Almoda (U.P.) 23-27 October, 1980.
12.	Kum. Sunayana H. Divatia, Reader in Philosophy, Faculty of Arts	Indian Philosophical Congress Bhagalpur (Bihar) 26-29 October, 1980.
13.	Dr. S. D. Joshi, Reader in Education, Faculty of Education and Psychology	XV Indian Sociological Conference, Meerut 2-4 November, 1980.
14.	Dr. (Miss) Malti Chakravorty, Centre for Continuing Adult Education and Community Services	Involvement of University and Colleges in the Programme of Continuing Education for the weaker Section in the Society, Waltair A.P. 2-4 October, 1980.
15.	Prof. V. M. Shah, Department of Mathematics, Faculty of Science	Sixty Eighth Session of the Indian Science Congress Association, Varanasi (B.H.U.) 3-7- January, 1981.
16.	Prof. M. D. Sharma, Department of Banking and Business Finance, Faculty of Commerce	1980 Conference of I.A.M.D. and IUCCER at Punjab University Patiala 29-9-1980 to 1-10-1980.
17.	Shri J. Sanjeeva Raddy Temporary Teaching Asstt. Bio-chemistry Department, Faculty of Science	(1) to attend the Neuro-Science of India meeting at Hyderabad 10-12 December, 1980. (2) and at the Society of Biological Chemistry meeting at Bangalore 14-18 December, 1980.
18.	Prof. A. P. Rana, Department of Political Science, Faculty of Arts	40th Annual Conference of the Indian Political Science Association, Mysore 27-29 December, 1980.
19.	Dr. K. K. Rao, Reader in Microbiology, Pharmacy Department, Faculty of Technology and Engineering	21st Annual Conference of the Association of Microbiologists of India at Bombay from 31-10-1980 to 2-11-1980.
20.	Dr. N. K. Jain, Reader in Pharmacy Department, Faculty of Technology and Engineering	Indian Pharmaceutical Conference, Nagpur 29-31 December, 1980.

Sr.No.	Name and Designation	Purpose
21.	Shri S. M. Khanna, Lecturer, Department of Pharmacy, Faculty of Technology and Engineering	Indian Pharmaceutical Conference, Nagpur 29-31 December, 1980.
22.	Dr. P. J. Dave, Reader, Department of Microbiology, Faculty of Science	Golden Jubilee Meeting of Society of Biological Chemists (India) and Federation of Bian and Oceanian Bio-chemistry, Bangalore 14-18 December, 1980.
23.	Dr. M. P. Patel, Tutor (Jr. Lecturer), Department of Pharmacology, Medical College, Baroda	XIII Annual Conference of the Indian Pharmacological Society of Regional Research Laboratory, Jammu-Tavi 30-9-1980 2-10-1980.
24.	Shri H. C. Shukul, Lecturer, Department of Political Science, Faculty of Arts	Indian Political Science Association XXL Annual Conference at Mysore 27-29 December, 1980.
25.	Dr. Thomas Pantham, Reader, Department of Political Science, Faculty of Arts	Indian Political Science Association XXL Annual Conference at Mysore 27-29 December, 1980.
26.	Dr. V. G. Nandedkar, Reader, Department of Political Science, Faculty of Arts	Indian Political Science Association XXL Annual Conference at Mysore 27-29 December, 1980.
27.	Shri S. M. Desai, Lecturer in Chemistry, Faculty of Science	Annual Convention of Chemists, I.I.T. Powai, Bombay 9-13 December, 1980.
28.	Prof. K. N. Trivedi, Department of Chemistry, Faculty of Science	Annual Convention of Chemists, I.I.T. Powai, Bombay 9-13 December, 1980.
29.	Dr. Amrish Shah, Reader, Department of Chemistry, Faculty of Science	Annual Convention of Chemists, I.I.T. Powai at Bombay 9-13 December, 1980.
30.	Prof. P. K. Bhattacharya, Department of Chemistry, Faculty of Science	Annual Convent on of Chemists, I.I.T. Powai at Bombay 9-13 December, 1980.
31.	Prof. C. H. Pathak, Department of Botany, Faculty of Science	Indian Science Congress, 68th Session, at Varansi in the month of January, 1981.

Sr.No.	Name and Designation	Purpose
32.	Dr. (Mrs.) Yogini Pathak, Lecturer, Department of Child Development, Faculty of Home Science	Indian Science Congress, 68th Session, at Varansi in the month of January, 1981.
33.	Dr. N. G. Sanghvi, Professor in Medicine, Faculty of Medicine	Indian Society of Hematology at Bombay 5-7 December, 1980.
34.	Prof. Jeram Patel, Department of Applied Arts, Faculty of Fine Arts	First National Seminar on Design Education at Indian Institute of Technology, Poiwai, Bombay 15-17 January, 1981.
35.	Shri P. M. Shah, Lecturer, Department of Physics, Faculty of Science	Ninth All India Symposium on Optics, Madurai 29-31 December, 1980.
36.	Shri N. R. Shah, Lecturer, Department of Physics, Faculty of Science	Ninth All India Symposium on Optics, Madurai 29-31 December, 1980.
37.	Dr. A. B. Daraji, Reader, Department of Physics, Faculty of Science	Ninth All India Symposium on Optics, Madurai 29-31 December, 1980.
38.	Dr. (Miss) S. D. Telang, Reader in Bio-chemistry, Faculty of Science	Symposium on Nutrition and Brain Develop- ment at Hyderabad 10-12 December, 1980.
39.	Shri D. M. Shringerpure, Lecturer in Geology Faculty of Science	Three Decades of Development in Palaento- logy and Stratigraphy in India at Hyderabad 10-12 December, 1980.
40.	Shri Chittaranjan N. Daftuar, Reader, Depart- ment of Psychology, Faculty of Education and Psychology	68th Session of the All India Science Congress at Varanasi 3-7 January, 1981.
41.	Prof. (Mrs.) Amita Verma, Department of Child Development, Faculty of Home Science	Biennial Conference of the Home Science Association of India Seminar on Ruralising Home Science Curriculum at Tirupathy, 10-13 December, 1980.
42.	Dr. V. H. Sonawane, Lecturer, Department of Archaeology, Faculty of Arts,	Indian Society for Prehistoric and Quater- nary Studies at Allahabad for 29-11-1980 to 3-12-1980.

Sr.No.	Name and Designation	Purpose
43.	Prof. M. D. Sharma, Department of Banking and Business Finance, Faculty of Commerce	Seminar on "Forecasting Methodology in Banking Industry at N.I.B.M., Bombay 6-8 December, 1980.
44.	Prof. A. R. Mehta, Department of Botany, Faculty of Science	68th Session at Indian Science Congress at Varanasi 3-7 January, 1981.
45.	Dr. J. P. Singhal, Reader, Department of Mathematics, Faculty of Science	Indian Mathematical Society, 46th Annual Meeting at Bangalore 27-29 December, 1980.
46.	Shri V. D. Pathak, Lecturer, Department of Mathematics, Faculty of Science	Indian Mathematical Society, 46th Annual Meeting at Bangalore 27-29 December, 1980.
47.	Dr. (Smt.) M. A. Padhya, Lecturer, Department of Botany, Faculty of Science	Third Botanical Conference Department of Botany, Lucknow University at Lucknow 28-30 December, 1980.
48.	Prof. M. Sreehari, Department of Statistics, Faculty of Science	9th Annual Conference of Gujarat Statistical Association at Bhavnagar 26-28 Decem- ber, 1980.
49.	Dr. K. N. Momin, Lecturer, Department of Archaeology, Faculty of Arts	XII Annual Congress of Indian Archaeo- logical Society and Indian Society for Pre- historic and Quaternary Studies University of Allahabad at Allahabad 29-11-1980 to 4-12-1980.
50.	Prof. Piyush Parikh, Department of Applied Mechanics, Faculty of Technology and Engineering	Geotech-80 at I.I.T. Bombay-76 18-21 December, 1980.
51.	Shri R. K. Rawal, Reader, Department of English, Faculty of Commerce	All India English Teachers' Conference at Banaras Hindu University, Varanasi 29-12- 1980 to 1-1-1981.
52.	Dr. M. H. Siddiqui, Reader, Department of Persian- Arabic, Faculty of Arts	Anjuman-i-Ustadan-i-Farji Hind, Alligarh University at Alligarh 29-31 December, 1980.
53.	Dr. (Miss) M. Gon, Reader, Department of Psychology, Faculty of Education and Psychology	Vth International Conference of International Association of Cross Cultural Pruch, Utkal University at Bhubaneswar 28-12-1980 to 1-1-1981.

<i>Sr.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
54.	Dr. D. R. Shah, Department of Business Economics, Faculty of Commerce	40th Annual Conference of the Indian Society of Agricultural Economics at Poona 30-12-1980 to 1-1-1981.
55.	Dr. Shirish J. Panchal, Lecturer, Department of Gujarati, Faculty of Arts	Gujarati Adhyapak Sangh at Adipur (Dist. Kutch) 29-30 October, 1980.
56.	Dr. S. M. Dave, Reader, Department of Gujarati, Faculty of Arts	Gujarati Adhyapak Sangh at Adipur (Dist. Kutch) 29-30 October, 1980.
57.	Prof. S. C. Misra, Department of History, Faculty of Arts.	Indian History Congress, at Bombay 26-28 December, 1980.
58.	Prof. V. K. Chavada, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
59.	Dr. S. K. Desai, Reader, Department of History, Faculty of Arts.	Indian History Congress, at Bombay 26-28 December, 1980.
60.	Dr. G. D. Sharma, Reader, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
61.	Dr. K. S. Mathew, Reader, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
62.	Mrs. Gita Bajpai, Lecturer, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
63.	Shri Ravindra Kumar, Lecturer, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
64.	Miss Urmila Patel, Lecturer, Department of History, Faculty of Arts	Indian History Congress, at Bombay 26-28 December, 1980.
65.	Dr. Y. K. Agrawal, Reader in Analytical Chemistry, Faculty of Technology & Engineering	32nd Indian Pharmaceutical Congress Asso- ciation at Nagpur 24-26 January, 1981.

<i>Sr.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
66.	Shri A. P. Gujjar, Reader, Department of Applied Arts, Faculty of Fine Arts	1st National Seminar on Design and Educa- tion at Bombay 15-17 January, 1981.
67.	Shri P. Y. Mandey, Lecturer, Department of Applied Arts, Faculty of Fine Arts	1st National Seminar on Design and Educa- tion at Bombay 15-17 January, 1981.
68.	Shri Jyoten P. Vyas, Lecturer, Department of Geography, Faculty of Science	Second National Cartography Conference at Pune 12-14 December, 1980.
69.	Mrs. Vimla Rangaswamy, Lecturer, Department of Geography, Faculty of Science	Second National Cartography Conference at Pune 12-14 December, 1980.
70.	Dr. V. P. Bhatt, Reader, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
71.	Dr. G. R. Pandya, Lecturer, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
72.	Shri V. R. Mathrubhute- swaran, Lecturer, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February 1981.
73.	Shri R. C. Shah, Lecturer, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
74.	Shri M. C. Vyas, Lecturer, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
75.	Shri Arvind J. Shah, Lecturer, Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.

<i>Sr.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
76.	Dr. N. L. Kekani, Lecturer Department of Physics, Faculty of Science	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
77.	Dr. J. R. Pandya, Reader, Department of Applied Physics, Faculty of Techno- logy and Engineering	XII National Conference on Crystallography to be held at Physics Department, Osmania University at Hyderabad (A.P.) 18-21 February, 1981.
78.	Dr. S. M. Dave, Lecturer, Department of Gujarati, Faculty of Arts	Gujarati Sahitya Parishad at Sanosara, Dist. Bhavnagar 27-28 December, 1980.
79.	Prof. P. M. Modi, Department of Civil Engg., Faculty of Technology and Engineering	Conference on Water Management Resources Engineering of a very high Standard at New Delhi 31-1-1981 to 7-2-1982.
80.	Dr. G. N. Dave, Lecturer, Department of English, Faculty of Arts	To attend ECLALS International Conference Frank Furt, Germany 20-3-1981 to 24-4-1981 Sufficing Summer Vacation.
81.	Dr. G. N. Dave, Lecturer, Department of English, Faculty of Arts	Western Response to Indian Inter-disciplinary and Comprehensive Approach at Mysore 11-15 January, 1981.
82.	Prof. R. N. Mehta, Department of Archaeology and Ancient History, Faculty of Arts	Second Annual Conference of the Place Names Society of India at Bangalore 6-8 March, 1981.
83.	Dr. D. R. Darji, Reader, Department of Education and Administration, Faculty of Education and Psychology	XXII Annual Conference of the Indian Association of Teacher Educator Hosted by the University of Kanpur at U.S.S.D. College, Kanpur 8-11 March, 1981.
84.	Dr. H. S. Desai, Reader, Department of Physics, Faculty of Science	Third National Workshop on Atomic and Molecular Physics University of Roorkee 9-14 March, 1981.
85.	Prof. P. K. Bhattacharya, Department of Chemistry, Faculty of Science	Seminar on Recent Trends in Metal Organic Chemistry of University of Jaipur, Jaipur. 26-28 March, 1981.

6. University Examination Results

68 Candidates were declared qualified for the award of Ph.D. degree of this University during the year 1980-81. The statement showing the names, subjects and titles of the theses is given in Appendix V.

The statements showing the University examinations results of (i) March-April-May-June, 1980 and (ii) October-November, 1980 are given in Appendices VI and VII.

7. Endowments and Donations

The Syndicate accepted the following donations during the year :

<i>Sr. No.</i>	<i>Name of the Fund</i>	<i>Amount of Donation</i>	<i>Purpose</i>
1	2	3	4
1.	Prof. (Miss) P. S. Chari Scholarship Fund donated by the Treasurers of the Committee to institute Scholarship, Faculty of Home Science, Baroda.	6,000/-	For awarding a Scholarship in Cash to a regular Student who after passing B.Sc. (Home) Final Degree Examination held by any recognised University of India in March/April with Specialization in Home Science Education and Extension obtaining at best 'B' Grade at the first attempt and has secured admission in M.Sc. (Home) degree Programme in the Home Science Education and Extension, Department of Faculty of Home Science.
2.	Vaidya Narayanrao Wamanrao Hardikar Gold Medal Fund donated by Vaidya Shri Dattubhai Hardikar, Baroda	8,000/-	For awarding a Gold Medal to a regular Student who has passed the M.Sc. (Botany) 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.
3.	Smt. Maniben Ranchhodlal Shah Prize Fund donated by Shri Padmakant R. Shah, Baroda	2,500/-	For awarding a prize in cash to a regular 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 'Foods and Nutrition' obtaining highest quality Points in the Category not less than 'A' grade of the

1	2	3	4
			first attempt as communicated by the Dean of the Faculty and the Head of the Department of Foods and Nutrition.
4.	Shri Nandlal Laxmidas Dholakia Memorial Prize Fund donated by Dr. H. L. Dholakia, Baroda	2,500/-	For awarding a Cash Prize to a Regular Student who has passed the final year B.Com. Degree Examination offering performed Management and Industrial Relations as his special subject held by the M. S. University of Baroda in March/April, with atleast Second Class at first attempt obtaining the highest number of marks but not less than marks in the special subject 'Personnel Management and Industrial Relations' i.e. in these papers of 'Personnel Management and Industrial Relations' taken highest at the said examination.
5.	Shri I. N. Patel Memorial Gold Medal Fund donated by the President, the society of Metallurgical Engineering Students, Department of Metallurgy, Faculty of Technology and Engineering, Baroda	8,000/-	For awarding a Gold Medal to a regular student who has passed B.E. or B.Tech (Metallurgical Engineering) Final Year Examination held by the M. S. University of Baroda in March/April, in First Class with distinction and at first attempt and has obtained cumulatively the highest percentage of marks at the Final and pre-final year examinations in the above courses of study.
6.	Shri Kamalashanker Pandya Oration on some aspects of sovereignty of Human Rights Fund donated by the Chairman, Local Committee, Shree Kamalashanker Pandya Sanman Samiti, Baroda	15,000/-	For inviting bi-annually a reputed scholar and thinker to deliver the Oration in some aspects of "Sovereignty of Human Rights".

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-Graduates Instruction and Research Fund, during the financial year 1980-81 are given in Appendix VIII.

(2) Revenue Accounts :

The receipts and disbursements during the financial year 1980-81 were Rs. 3,92,69,923-14 and Rs. 4,11,90,924-35 respectively having a deficit of Rs. 19,21,001-21. Details of the Accounts are given in Appendix IX.

(3) Grants :

The University received grants totalling Rs. 78,64,473-78 for development Schemes from the University Grants Commission and the Government of Gujarat and for various research Schemes, from the Central Ministries, State Government and outside agencies. The details are given in Appendix X.

9. Construction Division

(1) Capital Works :

The Division supervised the works of various buildings, additions and alternations and an amount of Rs. 13,53,263-48 was spent during the year on capital works.

(2) Ordinary and Special Repairs :

The expenditure on ordinary repairs during the year was Rs. 2,99,226-87 and Special Repairs was Rs. 3,28,824-11.

10. Obituary

The University expresses its deep sense of sorrow at the sad and sudden demise of the following employees who died in harness :

Name	Designation
1. Dr. P. T. Acharya,	Dean, Medical College,
2. Dr. (Miss.) S. Nachane	Reader in Sanskrit.
3. Smt. Kantaben Parikh	Class IV Servant Arts Faculty.

CHAPTER II—THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 15 members. The following persons were 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. Professor H. P. Chokshi
5. Shri Nanalal D. Chokshi
6. Dr. N. A. Dave
7. Shri P. C. Hathi
8. Shri S. B. Kulkarni
9. Dr. C. P. Munshi
10. Shri F. H. Palejwala
11. Shri N. M. Pandya
12. Shri D. K. Patel
13. Dr. T. V. Patel
14. Shri A. L. Redey
- *15. Professor S. M. Sen

During the year, the Syndicate held 24 meetings at which 1058 items were considered and resolutions passed on them. The following statement shows the attendance of the members at the Ordinary and Special Meetings of the Syndicate during the year :

Sr. No.	Name	No. of meeting held	Class of meetings O. = Ordinary S. = Special	Present
1	2	3	4	5
†1.	Professor P. J. Madan, Vice-Chancellor	15	O. 8 S. 7	O. 7 S. 4
2.	Professor S. M. Sethna Pro-Vice-Chancellor	24	O. 11 S. 13	O. 11 S. 11
3.	Director of Education or his nominee	24	O. 11 S. 13	O. 1 S. —

†Ceased to be the Vice-Chancellor and member from 1-1-1981

*Ceased to be the Dean and a member from 1-12-1980.

1	2	3	4	5
4.	Professor H. P. Chokshi	24	O. 11 S. 13	O. 11 S. 11
5.	Shri N. D. Chokshi	24	O. 11 S. 13	O. 8 S. 10
6.	Dr. N. A. Dave	24	O. 11 S. 13	O. 11 S. 9
7.	Shri P. C. Hathi	24	O. 11 S. 13	O. 11 S. 9
8.	Shri S. B. Kulkarni	24	O. 11 S. 13	O. 11 S. 12
9.	Dr. C. P. Munshi	24	O. 11 S. 13	O. 11 S. 11
10.	Shri F. H. Palejwala	24	O. 11 S. 13	O. 11 S. 10
11.	Shri N. M. Pandya	24	O. 11 S. 13	O. 11 S. 12
12.	Shri D. K. Patel	24	O. 11 S. 13	O. 11 S. 12
13.	Dr. T. V. Patel	24	O. 11 S. 13	O. 10 S. 9
14.	Shri A. L. Redey	24	O. 11 S. 13	O. 11 S. 12
*15.	Professor S. M. Sen	14	O. 7 S. 7	O. 6 S. 6

2. The Senate

The Senate consisted of 93 members. The changes in the membership during the year were as under :

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

1. Professor J. Birje-Patil
2. Dr. P. T. Acharya
3. Professor S. M. Sen
4. Shri I. A. Dave
5. Shri Chhaganbhai P. Patel
6. Shri V. H. Shah
7. Dr. A. R. Patel
8. Shri M. P. Parekh
9. Professor A. R. Desai
10. Shri I. J. Patel
11. Professor D. N. Pathak
12. Dr. P. C. Vaidya

* Ceased to be the Dean and member from 1-12-1980.

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

1. Shri Prabodhchandra C. Raval
2. Professor V. N. Kothari
3. Professor O. H. Patel
4. Kum. Saroj Sinha
5. Shri S. C. Shelat
6. Shri J. R. Shah
7. Professor K. S. Shastri
8. Shri R. B. Shukla
9. Shri S. R. Dave
10. Dr. Shirish M. Purohit

The Senate met twice during the year on 24th August, 1980 and 29th November, 1980. Forty-one members attended the meeting on 24th August, 1980 and Fifty-four on 29th November, 1980. The meeting of the Senate convened on 29th March, 1981 could not be held.

Meeting of August, 1980

The proposal to amend Statute 209-A regarding gratuity was passed.

Meeting of November, 1980

The election of two fellows on the Board of Extra Mural Studies and three members on the Board of Accounts was held. Six fellows were assigned to faculties. Replies to Questions and supplementary Questions were given. Supplementary grant amounting to Rs. 16,96,500/- was sanctioned. Ordinances mentioned in Pamphlet No. 25 of Hand Book Part II-1967 and Ordinance relating to the examinations, Syllabi of the Faculty of Commerce mentioned in Pamphlet No. 1 of Hand Book Part III and the text-books prescribed for examinations in Arts and Sanskrit Mahavidyalaya (Pamphlet No. 4 of Hand-Book Part IV—1974) were considered and noted. The proposal to amend statute 128 was referred back to the Syndicate for reconsideration. The proposal to amend statute 199 and Statute 200 was passed. The Thirty-First Annual Administrative Report and Thirty-First Annual Accounts for the year 1979-80 were considered and the excess expenditure over the revised estimates for the year 1979-80 was sanctioned. The resolution of Shri K. K. Leuva for observing centenary celebrations of the Baroda College in 1981 was passed. Shri Leuva's resolution for inclusion in the minutes of the Senate meetings all the important suggestions made by the members was withdrawn. The Report of the Board of Accounts for the year 1979-80 submitted to the Senate was noted. The proposal for the institution of posts in M. K. Amin Arts and Science College and College of Commerce, Padra and conversion of one post of Lecturer in German into the post of Reader in German in the Faculty of Arts was considered and passed. The proposal for institution of medals, prizes and scholarship was passed.

The Government of Gujarat promulgated an Ordinance on 16th October, 1980 for amending the Section 10 of the M. S. University of Baroda Act 1949 relating to the procedure of appointment of the Vice-Chancellor of the University.

The Syndicate of the University was to consider the question of framing a panel for appointment of the Vice-Chancellor at its meeting to be held on 18th October, 1980 on item No. 28. As the Ordinance as stated above was promulgated on 16th October 1980, the said item was required to be withdrawn from consideration of the Syndicate.

A Special meeting of Syndicate was convened on 11th November, 1980, when the following resolution was passed :

After the meeting was called to order the following motion signed by Shri S. B. Kulkarni and Shri N. D. Chokshi was moved which was seconded by Shri P. C. Hathi.

The question of amending the M. S. University Act is under the consideration of State Government since long and yet nothing was done in that direction so far. Even if the Government wanted to amend only Section 10 of the said Act and introduce a special statute by amending Section 32 of the Act, the Government could have easily done so by bringing an Amendment Bill for the purpose while State Assembly was in session. Instead of doing that, shortly after the Assembly session ended and just before the meeting of the Syndicate of the University for recommending a panel of three persons for the election of the Vice-Chancellor by the Senate out of that Panel, an Ordinance temporary amending the M. S. University Act was promulgated, notice of which was given only at the time of the meeting by placing copies of the Ordinance on the table. This is clearly an encroachment on the democratic right of an autonomous institution like the University by a last minute Ordinance. Therefore, resolved that this Syndicate of M. S. University, Baroda, declines to nominate a member on the Committee to be appointed by the Chancellor under Sub-section (2) of Section 10 as mentioned in the Ordinance."

Before the motion was taken up for discussion Shri A. L. Redey raised the following point of order :

"That the Syndicate being an authority created under the Act, can not refuse to perform its functions under the amended Section 10 of the same Act and hence the resolution was out of order."

After discussion, the Vice-Chancellor ruled out the point of order :

"Thereafter the motion was taken up for discussion. After discussion, the motion was carried by majority. Shri A. L. Redey was totally against the motion while three members, Shri F. H. Palejwala, Shri D. K. Patel, and Dr. C. P. Munshi, were in favour of nominating a member subject to recording their protest to the manner in which the Ordinance was promulgated."

CHAPTER III—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-Graduate Studies and Research

The Council for Post-Graduate Studies and Research met on 7th April, 1980 ; 24th September, 1980 and 17th December, 1980. The following were the main items considered and recommended by the Council and approved subsequently by the Syndicate.

- (i) The appointment of a Committee 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 1981-82.
- (ii) Grant of Rs. 6,000/- for the year 1981-82 towards the research work done by the Textile and Allied Industries Research Organisation, Baroda.
- (iii) Grant of Rs. 2,000/- for the financial year 1980-81 and an amount of Rs. 3,000/- for the year 1981-82 for the purchase of MSS., Micro-films etc. for the Vishnu Purana Project in the Oriental Institute.
- (iv) Panels of names of referees to examine the theses of 84 students for the award of Ph.D. degree in the various subjects.
- (v) Recognition of 21 teachers as Post-graduates teachers for guiding students for Ph.D. degree in the different subjects for various post-graduates courses including the Faculty of Medicine.
- (vi) Extension of period to 6 students to submit their theses late under provision of O.Ph.D. 4(iii).
- (vii) Permission to two teachers to do Ph.D. independently and act as their own guide under O.Ph.D. 3 (ii).
- (viii) Permission to nine students from different Faculties for Ph.D. registration in related subjects under O.Ph.D. 1 (vii).
- (ix) Cancellation of registration of one student.
- (x) Amendment of the existing O.Ph.D. 3 (i) as under in order to be effective from the academic year 1980-81. This amended O.Ph.D. 3 (i) was approved vide S.R.No. 69 (3) dated 25-4-1980. A candidate for Ph.D. degree after his registration, must have worked for

a period of two academic/calender years under the guidance of a recognised teacher. Every registrant for the Ph.D. degree of the University except those permitted to work in recognised Laboratories/Institutions etc. shall be required to attend the Department regularly and work directly under the guiding teacher during at least the first two terms or two semesters or one calender year from the date of registration as the case may be. The phrase 'academic year' applies to candidates who register within one calender month of the first-day of an academic year and 'Calender year' to candidates who register at any other time.

(xi) Under Syndicate Resolution No. 4 (5) dated 21-11-1980 the rules relating to the recognition of persons as University Teachers for the Post-graduates course in the Faculty of Medicine were revised to read as under :

Rules relating to the recognition of persons as University Teachers for the Post-graduate course in the Faculty of Medicine (Approved vide S.R.No. 4, (5) dated 21-11-1980).

(1) Each Clinical Unit, under the different Departments of the Medical College, Baroda be considered as a whole for purpose of registration of post-graduate students and imparting instruction for the post-graduate courses. While the Head of such a Unit should share the responsibility for Post-graduate instruction with other recognised teachers of the Unit, he should have overall responsibility of certifying attendance statement dissertations etc.

(2) The Professor in each full-time department be deemed recognised as a University teacher for imparting instruction for the post-graduate courses.

(3) The minimum requirements for recognition as University teachers for the Post-graduate courses in respect of teachers other than two Senior-most Professor as stated in 2 above be as under .

(i) A post-graduate teacher in the Faculty of Medicine should have at least 7 year's undergraduate teaching experience or 7 year's post-graduate teaching and training experience or both combined.

(ii) 7 year's teaching experience as Honorary or Asstt. Hon. Medical Officer in any Medical College in Clinical Department.

(xii) Eligibility of M.Sc. degree holder in any branch of Chemistry for registering for Ph.D. in Applied Chemistry.

It was further resolved that in modification of Syndicate Resolution No. 74 (30) dated 21-7-1979 each case for registration for Ph.D. in Applied Chemistry (other than M.Sc. Applied Chemistry degree holders) be not required to be referred to the Council of Post-graduate Studies and Research for its consideration in view of the above provision.

(xiii) Recognition of the National Institute of Nutrition, Indian Council of Medical Research, Jainai-Osmania, P.O. Hyderabad-500 07 (A.P.) as a Recognised Centre for carrying on Research and Development work for the Ph.D. degree in Bio-Chemistry under the Faculty of Science for the benefit of eligible students of this as per existing O. Ph.D. 1 (viii).

Recognition of Dr. Bagepalli Subbarao Narsinga Rao, Deputy Director, National Institute of Nutrition, Hyderabad for guiding eligible students of this University for the Ph.D. degree in Bio-Chemistry at the Institute for the award of the said degree under the Faculty of Science of this University so long as Dr. N. Rao continues to work at this Institute.

(xiv) Rejection of Shri Amit Dhruv for registration as a Post-graduate student for the Ph.D. degree in Commerce and Business Administration in the Faculty of Commerce, under the guidance of Professor G. C. Beri, a recognised teacher on the strength of his having passed (i) B.Tech. degree examination, with Chemical Engineering in Grade A from Indian Institute of Technology, Delhi University in 1975, (ii) M.B.A. from University of Pittsburgh, U.S.A. with grade average 3.93 on scales of 4.0 in 1977 under provision of O. Ph.D. 1 (vii) as the M.B.A. Examination passed by him within the duration of one year from the University of Pittsburgh in 1976-77 cannot be considered equivalent to the M.Com. Examination of this University of two years duration.

(xv) Rules for sanctioning (i) the Financial Assistance for Research Schemes especially the stipend paid to the Research Assistants, (2) O. 221 (ii) regarding Research Scholarships to be awarded to deserving students doing research in the University, and (3) Rules regarding post-doctoral Fellowships were amended vide S. R. No. 67 (14) dated 17-1-1981 in view of the recent upgrading of the value of Junior Research Fellowships and the contingent grant by University Grants Commission as per their letter No. F.00-1/80(RF) Review dated 12-11-1980.

The following amendments be made in the relevant rules/Ordinance :

(i) Rules and conditions for sanctioning the Financial Assistance for Research Scheme would remain the same except that rule 3 (e) be substituted to read as follows :

“ A Research Assistant may be paid consolidated salary of Rs 400/- per month in case the incumbent who has a Master's Degree ”.

(ii) The rule so amended may also replace rule No. 3 of Rules relating to Research Assistants in Chapter XLVII of Hand Book Part II (Page No. 263).

(iii) The existing O. 221 (ii) be substituted as under, other conditions remaining the same :

“ (a) Every year Three Research Scholarships of the value of Rs. 400/- per month each, tenable for a period of 3 years with an annual contingent grant of Rs. 1,000/- towards expenses on apparatus, chemicals, equipment, books journals, photostat copies, micro films, typing (including thesis), stationery postage, field work/travel etc. may be awarded ”.

(b) Every year two post-doctoral Fellowships of the value of Rs. 600/- p.m. each tenable for a period of one year only may be awarded. The post-doctoral Fellowship will carry a contingent grant of Rs. 2,000/- per annum for approved contingent expenditure.

2. Faculties

Of the ten Faculties in the University the following held their meetings during the year as shown below :

Sr.No.	Name of the Faculty	Date of the meeting
1.	Faculty of Arts	22-1-1981
2.	Faculty of Science	17-1-1981
3.	Faculty of Commerce	30-12-1980
4.	Faculty of Education & Psychology	31-12-1980
5.	(i) Medicine	19-5-1980
	(ii) Medicine	24-1-1981
6.	Faculty of Technology and Engineering	10-3-1981
7.	Faculty of Fine Arts	10-1-1981
8.	Faculty of Home Science	27-1-1981

The Faculties of (i) Law and (ii) Social Work could not meet during the period under report as there was no agenda. The following recommendations were made by the Faculties.

(1) Faculty of Arts :

- * (i) The existing syllabi, text books prescribed for F.Y.B.A. and S.Y.B.A. Major and Minor examinations in Sanskrit be revised and approved as proposed and the same be made effective progressively from the academics year 1981-82.
- * (ii) A new certificate course in Persian and Arabic be introduced from the academic year 1981-82 and details regarding admission requirements, syllabi, schemes of teaching and examination, standard of passing etc. be approved as proposed.
- * (iii) Persian, Hindi, Gujarati, English, Marathi be allowed to be offered as a minor subject alongwith Political Science as a major subject at F.Y.B.A. and S.Y.B.A. level.
- * (iv) The text-books in Persian and Urdu from F.Y.B.A. to M.A. Examinations and for Arabic Language for F.Y.B.A. (Optional) and S.Y.B.A. (Minor) Examinations for the year 1982 be approved as proposed.
- * (v) The proposed broad outlines for the M.Phil degree course in Hindi be revised and approved.
- * (vi) The following 3 Kavis be specified from the textual portion of the new edition of ' Kavitarantar ' of Shri Jagdish Gupt prescribed for M.A. (Hindi) Part II Paper—VII :
(a) Mukti-bodh, (b) Agneya, and (c) Sarveshvar.
- * (vii) The text-book ' Padmavati Samay ' be continued for M.A. (Hindi) Part I, Paper III in place of text-book ' Gajsingh Prabandha ' by Nemi Kunjar prescribed for the academic years 1976 to 1980.
- * (viii) The Syllabus etc. for the M.Phil degree course in Gujarati be approved as proposed.
- * (ix) The existing syllabus for papers Nos. 1, 2 and 3 (Principal and Entire) and 4A (Entire) for M.A. Part I course in Gujarati be revised and approved as proposed.
- * (x) The existing syllabus for Papers 1 and 2 for M.A. Part I and M.A. Part II (Subsidiary) course in Gujarati be revised and approved as proposed.
- * (xi) Students reading for Principal Gujarati at M.A. Part II be allowed to choose any one paper out of papers No. 7A and 7B as their paper number seven.

- *(xii) Students reading for principal Gujarati at M.A. Part I be allowed to choose any one paper out of papers Nos. 3A and 3B as their paper number three.
- *(xiii) The text-books in English for various subjects on the Faculty of Technology and Engineering and Polytechnic be approved as proposed.
- *(xiv) The existing details of syllabi of S.Y.B.A. (English) Major Paper II, entitled "Chaucer and the History of English Language" be revised and approved as proposed.
- *(xiv) A-The details of syllabi text-books etc. in the subjects of English for the newly proposed 4 years B.E. Degree course in Computer Science be approved as proposed.
- *(xv) The proposed Post-graduate Diploma in Epigraphy (Dip. Epg.) be approved as recommended and the same be instituted at the Department of Archaeology and Ancient History under the Faculty of Arts.
- *(xvi) The proposed rearrangement of Group A Papers at M.A. Part I and Group B Papers at M.A. Part II be revised and approved.
- *(xvii) The existing details of syllabi of 'Introduction to Indian Culture' Paper I taught at F.Y.B.A. level in Archaeology be revised and approved as proposed.
- *(xviii) The existing paper "State Government and Politics" prescribed for S.Y.B.A. (Major), Paper III, Option 2, be replaced by the paper "Indian Government and Politics" and the proposed details of syllabi, books etc. be revised and approved.
- *(xix) The existing paper entitled "Contemporary International Relations" prescribed for S.Y.B.A. (Major) Paper II, be renamed as "Introduction to contemporary International Relations" and the existing details of syllabi, list of recommended books, etc. be revised and approved.
- *(xx) The existing details of syllabi etc. of the paper entitled "World order in the Twentieth Century" prescribed for T.Y.B.A. Paper VI be revised and approved.
- *(xxi) The following books be added in the list of books recommended for "Politics and Economics change in India" prescribed for T.Y.B.A. Paper V, Option 2.
- (a) C. Bettelheim, India Independent
- (b) G. Rosen, Democracy and Economic Change in India.

- *(xxii) The proposed changes in the Syllabi, text-books etc. for Diploma and Post-Diploma in Russian Language and Literature be approved.
- *(xxiii) The proposed M.A. (Subsidiary) Course in German Language and Literature be introduced from the academic year 1981-82 and the details regarding syllabi, text-books, financial implications etc. be approved as proposed.
- *(xxiv) One paper on Logic be introduced instead of the existing Paper I entitled "Elementary Philosophy" prescribed at F.Y.B.A. Examination and the details of syllabi, text-books etc. be approved as proposed.
- *(xxv) The existing syllabi for F.Y.B.A. (Linguistics) be revised and approved.
- *(xxvi) The book entitled 'Personality' by Shri Jagdish Patel, Department of Psychology be added in the list of reference books for S.Y.B.A. Psychology.
- *(xxvii) The existing syllabi, books of Paper No. IV entitled "Political Geography" for T.Y.B.A. in the subject of Geography be revised and approved.
- *(xxviii) The student reading in second and third year B.A. Class be permitted to offer one of the major subjects from amongst the optional subjects in which he has passed at the First Year B.A. examination and the same be made effective from the academic year 1981-82.
- Note:*—The recommendations marked with * are approved by the Syndicate.
- (2) Faculty of Science :
- *(i) The existing provision containing details of practicals for M.Sc. (Previous) Bio-Chemistry be modified and approved as proposed.
- *(ii) The existing scheme of examination, the provision of award of classes for the Diploma in Laboratory Techniques course be revised and approved as proposed.
- *(iii) The addition of Soil Biology as a special subject at the M.Sc. (Final) syllabi in Botany be approved as proposed.
- *(iv) The existing syllabi for the S.Y.B.Sc. and T.Y.B.Sc. (Principal and Subsidiary) in the subject of Chemistry be revised and approved as proposed.

- *(v) The new paper entitled "Rural Geography" be introduced as an optional paper for M.Sc. (Final) along with Paper II. Historical Geography of India and the details of Syllabi, books etc. for the same be approved as proposed.
 - *(vi) The existing syllabi, books of Paper No. V entitled "Political Geography" for T.Y.B.Sc. in the subject of Geography be revised and approved as proposed.
 - *(vii) The proposed one year Post-B.Sc. Diploma Course in Mining Geology, its details regarding syllabi, schemes of teaching and examination, admission requirements, standard of passing, award of classes etc. be approved academically.
 - *(viii) The proposed changes in respect of the language and distribution marks for practicals at M.Sc. (Previous) and M.Sc. (Final) be approved.
 - *(ix) The students of S.Y.B.Sc. and T.Y.B.Sc. Statistics be permitted to use their private battery operated electronic Pocket Calculators. However, the Department of Statistics will continue to supply the usual Facit Calculators in the laboratory for those who wish to use them.
 - *(x) The students of all classes of Statistics be permitted to use their private battery operated electronic pocket calculators in the theory examinations.
 - *(xi) The report of the Committee containing the recommendations in respect of the proposed frame work of the B.Sc. and M.Sc. teaching under the Semester system in the Faculty of Science alongwith the financial implications therefor as spelt out by the Committee be approved.
 - *(xii) The Dean's proposal in the matter of making the practical examination fully internal at all M.Sc. Courses and retaining the existing total marks allotted for practicals for being given on the basis of Internal assessment throughout the year be referred to respective Boards of Studies under the Faculty of Science.
- Note:—The recommendations marked with * are approved by the Syndicate.
- (3) Faculty of Commerce :
- *(i) The existing details of syllabi in respect of S.Y.B.Com., T.Y.B.Com., M.Com. Part I and M.Com. Part II Courses be revised and approved as proposed.

- *(ii) The existing details of syllabi, books recommended etc. for Paper No. I entitled as "Principles of Economics" of S.Y.B.Com. course be revised and approved as proposed.
- *(iii) The existing syllabi of the (a) Post-graduate Diploma in Co-Operation, and (b) Under-graduate Diploma in Co-operation be revised and approved as proposed.
- *(iv) Students passing any Bachelors degree examination of this University or an examination recognised as equivalent thereto be considered eligible for seeking admission to the Post-graduate Diploma Course in Banking and the entrance test as proposed be conducted by the Department for regulating admissions to the said diploma course.
- *(v) The existing O.Com. 45, O.Com. 46 and O.Com. 49 be amended as proposed.
- *(vi) The existing syllabi in Statistics for (i) S.Y.B.Com. and (ii) T.Y.-B.Com. courses be revised and approved as proposed.
- *(vii) The report of the Committee for restructuring of M.Com. Part I and M.Com. Part II courses with a view to introducing specialization in streams or group of compulsory and optional papers be approved with the addition that the details regarding numbering minor/major papers, titles of papers etc. in the subject of Statistics be also incorporated as proposed.
- *(viii) The existing O.Com. 8 governing the provision for the admission requirements of the F.Y.B.Com. class be revised and approved as proposed.

Note: The recommendations marked with * are approved by the Syndicate.

(4) Faculty of Education and Psychology :

The recommendation made by the Board of Studies in Education and Educational Administration in the matter of maintaining status quo about the medium of instruction in the University be referred back to the Board for making specific recommendation in the matter in the light of discussions that took place in the Faculty meeting.

(5) Faculty of Medicine :

- *(i) The recommendations contained in the report of the committee regarding syllabi, scheme of examination etc. for Anatomy, Bio-Chemistry, Physiology for the 1st M.B.B.S. examination be approved as proposed.

- *(ii) The status quo be maintained in the matter of introduction of the semester system for M.B.B.S. degree course and the present system of conduct of examinations for the M.B.B.S. degree course be continued.
- *(iii) The existing O. M.1 governing the provision of admission requirements for the First M.B.B.S. class be amended and approved as proposed.
- *(iv) The status quo be maintained as far as the selection of students to the First M.B.B.S. class of the Faculty of Medicine is concerned and the present provision as laid by the State Government in the matter be adhered to.
- *(v) The existing provision viz. "Non-appearance will be considered as an attempt" be deleted from the existing O. M. 7 and four actual chances be given for passing the First M.B.B.S. examination and the existing provision as contained in the O. M. 7 in the matter be amended and approved as proposed.
- *(vi) Three internal and three external (i.e. total six examiners) be appointed for M.Sc. (Medical) Part I examination.
- *(vii) The existing provision of O. M. 79 and O. M. 81 governing admission requirements for F.Y.B.Physio course as well as examination be reamended and approved as proposed.
- *(viii) The present name of the Board of Studies in Pathological Sciences, Pharmacology and Forensic Medicine be changed as proposed.
- *(ix) The nomenclature of the existing Diploma in Industrial Health (D.I.H) be changed to Diploma in Environmental Health (D.E.H.) as suggested by the Medical Council of India.
- *(x) The report of the committee appointed by the Board concerned in the matter of recommending the proposed list of Industrial establishments and Institutions for being recognised for the Post-graduate Diploma in Industrial Health (D.I.H.) course be approved.
- *(xi) The existing O. M. 64 be amended and approved as proposed with retrospective effect from June, 1979.
- *(xii) The holders of M.D. Medicine degree be given six months exemption from two years studies of the post-graduate Diploma in Tuberculosis Diseases course and they be allowed to appear at the said examination after completion of one and half year studies from the date of their registration for the said course and the said provision be made effective from the examinations of March/April, 1981.
- *(xiii) The changes in the syllabus for the subject of Physiology of M.Sc. Part I (Medical) degree course be approved as proposed.

- *(xiv) The previous provision for admission to the M.Sc. (Medical)—Br. V—Bio-Chemistry degree course be reintroduced and the relevant ordinance in the matter be reamended as proposed.
 - *(xv) There should be one internal test for credit marks (30 marks) in practicals in the subject of Forensic Medicine in addition to the existing Internal Test of 30 marks in Theory and the existing O. M.4. be amended and approved as proposed.
 - *(xvi) There should be 3 papers for the Post-graduate Diploma in Clinical Pathology Examination (D.C.P.) instead of 2 papers as at present. The details of the schemes of examination and teaching, syllabi etc. for D.C.P. examination be approved as recommended by the Committee.
 - *(xvii) The minimum requirements for admission to the F.Y. Physio Course must be passing of the qualifying recognised examination with 50% marks in the aggregate and not 49.5% marks in the aggregate.
- Note :* The recommendations marked with * are approved by the Syndicate.
- (6) *Faculty of Technology and Engineering :*
- *(i) The existing provision contained in O.T.E. III-4 regarding direct admission to F.Text. (Engg.) from Pre. T.T. and D.T.C. I be deemed to have been deleted with effect from the academic year 1978-79.
 - *(ii) The existing schemes of working and examinations for the B.E. V Metallurgical Engineering and the existing details of syllabi for the respective semester of B.E. V (Met.) and B.Tech. V (Met.) degree courses be revised and approved as proposed.
 - *(iii) The existing schemes of working and examination, details of syllabi etc. for the M.E. (Industrial) Metallurgy degree course be revised and approved as proposed.
 - *(iv) The details of syllabi in the subjects of (a) Applied Mechanics prescribed at IInd Semester of B.E. I (Computer Science) new course and (b) Fluid Mechanics prescribed at IInd Semester of B.E. II (Computer Science) New Course be approved as proposed.
 - *(v) The syllabi of certain newly introduced elective subject/s of B.E. V (Civil) 5 year's course and B.E. IV (Civil) 4 year's course be approved as proposed.
 - *(vi) The existing 25 marks prescribed for the term work including viva in the subject of Applied Mechanics at Second Semester of B.E. II

- be raised to 50 marks and the said provision of raising of marks from 25 to 50 be made applicable to all relevant courses of B.E. (CME) 5 years as well as B.E. (CME) 4 years degree courses.
- *(vii) The existing 25 marks prescribed for the term work including viva at the First Semester of B.E. IV Civil in the subject of Theory of Structures I and Advanced Hydraulics be raised to 50 marks so as to full in line with similar term work marks prescribed for other subjects at this level.
 - *(viii) The subject of elective entitled "Numerical and Computer Methods in Civil Engineering" be continued as elective for B.E. V (Civil) degree course and the benefit of the said elective be given to the final year Civil students in Second Semester of the academic years 1980-81 and 1981-82.
 - *(ix) The existing subject entitled as "Numerical and Computer methods in Civil Engineering" of B.E. III Civil Second Semester be renamed as "Elementary for Programming with Numerical Applications" as it is the same course as being offered as Elective for B.E. (Civil) degree course and it is obtaining Syllabi be revised and approved as proposed.
 - *(x) The existing details of syllabi for the subjects viz. (a) Theory of Structures: II—at Second Semester of B.E. IV (Civil), (b) Structural Mechanics in B.E. V (Civil) Elective and (c) Matrix Methods of Structural Analysis at B.E. (Civil) Elective, be revised and approved as proposed.
 - *(xi) The existing name of the elective subject entitled "Matrix methods of Structural Analysis" of B.E. V (Civil) be renamed as Matrix Analysis of Framed Structure".
 - *(xii) The duration of the question paper entitled "Matrix Methods of Structural Analysis" at M.E. Part III be raised from 3 hours to 4 hours keeping in view the amount of Computational Work involved for the said paper.
 - *(xiii) Three additional elective subjects be prescribed for B.E. V (Civil) in the Group of Geotechnical Engineering and details of syllabi etc. for the said subjects be approved as proposed.
 - *(xiv) The existing Scheme of teaching and examination in the subject of Thermodynamics at B.E. II (CME, Ch. Met.) Five years degree courses and B.E. I (CME, Ch. Met.) Four Year degree courses be revised and approved by dropping the "Practicals" from the said Schemes of teaching and examination.

- *(xv) The candidates who have passed B.E. (Metallurgy, Electrical and Chemical) degree examinations in Engineering and B.Text. (Engg.) of this University with at least 55% marks in the aggregate be considered eligible for being admitted to Master's degree courses in Mechanical Engineering in the branches of Production Engineering as well as Thermal Engineering of the Faculty.
- *(xvi) The newly proposed 4 years B.E. (Computer Science) degree course, its schemes of working and examinations, details of syllabi, the minimum admission requirements, standard of passing, award of classes, A.T.K.T. provisions etc. be approved academically.
- *(xvii) The proposed additional subjects be introduced at the M.Sc. (Applied Physics) degree course.
- *(xviii) The existing scheme of teaching and examination of M.E. (ACE) Part III be modified and approved as proposed.
- *(xix) The existing course entitled 'Net Work Synthesis' for the M.E. (ACE) Part III be replaced by the new course entitled "Micro-processor Applications" and the details of syllabi etc. for the said course be approved as proposed.
- *(xx) The provision of "Practicals" and "Term Work" be introduced in the subject of Communication Engineering" at the IInd Semester of Final Year Diploma in Electrical Engineering of the Polytechnic and the existing details of syllabi therefor be revised and approved as proposed.
- *(xxi) The Report of the Committee for the newly proposed Part-time degree course in Chemical Engineering be approved academically and it be implemented only after the necessary sanction for financial implications required therefor are received from the Western Regional Committee and the Director of Technical Education of the Gujarat State in the matter and the details of syllabi for the relevant subject/s of the Part-time degree course are got approved by the Boards in the subject/s concerned, Faculty and the Syndicate.
- *(xxii) The existing provision regarding admission of Diploma holders in Architecture to the degree course in Architecture be modified and approved as proposed.
- *(xxiii) The details of syllabi in the subject of Physics for the newly proposed B.E. (Computer Science) degree course be approved as proposed.
- *(xxiv) The existing teaching and examination Schemes for M.Sc. (Applied Physics) Course be revised and approved as proposed.

- *(xxv) The details of Syllabi in the subject of Mathematics for the newly proposed B.E. (Computer Science) degree course be approved as proposed.
- *(xxvi) The details of syllabi of Discrete Matrine marks at M.E. (Computer Science) be approved as proposed.
- *(xxvii) The details of syllabi for Chemistry of newly proposed B.E. (Computer Science) degree course be approved as proposed.
- *(xxviii) The subject of "Industrial Management" presently taught and examined at Forth Semester of Second Year of the M.Sc. (Applied Chemistry) course of Study, be shifted for teaching and examining to the third semester of second year of the M.Sc. (Applied Chemistry) course.
- *(xxix) Topic No. 23 "Drugs and antibiotics" be added at the end in subject of 2.3 Chemical process Industries prescribed for First Year of the M.Sc. (Applied Chemistry) degree course.
- *(xxx) The syllabus of Mathematics and Statistics for M.Pharm I be approved as proposed.
- *(xxxi) The details of syllabi for the subject entitled "Textile Costing" to be taught at the 1st Semester of the Final Year D.T.T. Course be approved as proposed.
- *(xxxii) The details of syllabi in the subject of "Economics" to be taught at the B.E. III Computer Class for the newly proposed 4 years degree course in Computer Science and Engineering be approved as proposed.

Note:—The recommendations marked with * are approved by the Syndicate.

(7) Faculty of Fine Arts :

- *(i) The B.A. (Fine) Applied Arts Degree be awarded to students concerned only after the completion of a minimum of 6 weeks of professional training in an Advertising Agency or Design studio of at least 5 years' standing. The professional training should be completed during the period of vacations in the 3rd year of the degree course at the cost of the students themselves.
- *(ii) The existing course No. 121, 'Graphic Design' shown on Page No. 34 of the prospectus of the Faculty of Fine Arts of 1980-81 be divided into two parts as proposed and the same be approved.

- *(iii) The existing admission requirements for the Diploma courses in Painting, Sculpture, Applied Arts of the Faculty of Fine Arts be revised and approved as proposed and Rules of Admission for Diploma course be revised and approved accordingly.
- *(iv) Students admitted to M.A. (Fine) and Post-Diploma in Applied Arts courses from other streams like Painting or from other institutions of different States should be required to undergo certain subsidiary courses study programme made by the Department.
- *(v) Course No. 214 the subjects of "Piece moulding" should be taught as a part of the composition.
- *(vi) Pottery as subject be made compulsory for the students of Sculpture Department in II year having two credit points.
- *(vii) The additional subject of Specialization: "Ceramics Sculpture" be introduced at the M.A. (Fine) Sculpture level under the Department of Sculpture with the modification that the existing provision governing admission requirements of M.A. (Fine)/Post-Diploma Ceramics Sculpture courses be reworded as proposed. The details of the course etc. be approved as recommended by the committee.
- *(viii) The existing scheme of examination for the B.A. (Fine) Art History course be revised and approved as proposed. It was also recommended that Ist and IInd year Art History students be required to clear the prescribed "Studio Practice" in the year concerned.
- *(ix) The provisions for direct admission to IInd year Degree course in Dramatics, Music and Dance under certain conditions as laid down by the Faculty.
- *(x) Students who have completed B.Mus. degree course in one specialization subject and who have also completed a Diploma course in another subject be considered eligible for admission to the final year B.Mus. course with the subject in which they have obtained their diploma.
- *(xi) The existing syllabi, scheme of examination for Theory, Practical, Tutorials etc. for B.Mus. (Dance) and M.Mus. (Dance) degree course be revised and approved as proposed.
- *(xii) The newly proposed Post-Diploma in Dance in 3 respective branches each of one year's duration, admission requirements, details of syllabi, scheme of teaching and examinations, financial implication etc. therefor be approved academically.
- *(xiii) The proposed syllabus and note on examination system in the subject of Indian and Western Aesthetics to be taught at the Final Year B.Mus. course be revised and approved as proposed.

Note: The recommendations marked with * are approved by the Syndicate.

(7) Faculty of Home Science

- *(i) The scheme of the B.Sc. (Home) Child Development examination consisting of the five heads of passing be approved as proposed.
- *(ii) The course entitled "Population Education" be introduced at the B.Sc. (Home) Child Development Programme.
- *(iii) The new numbers allotted to Departmental courses for the three year B.Sc. (Home) Child Development Programme be approved as proposed.
- *(iv) The outlines of the courses for the two year undergraduate Diploma Course in Child Development be approved as proposed.
- *(v) The three year B.Sc. (Home) Child Development Programme be revised and approved as proposed.
- *(vi) The scheme of B.Sc. (Home)—Foods and Nutrition examination consisting of Five Heads of passing be approved as proposed.
- *(vii) The existing courses offered as electives to B.Sc. (Home)—Foods and Nutrition students be revised and approved as proposed.
- *(viii) The existing courses, their outlines and credits assigned to M.Sc. (Home) Foods and Nutrition and M.Sc. (Home) Dietetics courses be revised and approved as proposed.
- *(ix) The list of Institutions for Internship for M.Sc. (Home)—Foods and Nutrition and M.Sc. (Home) Dietetics be expanded and approved as proposed.
- *(x) The allotment of numbers to the courses offered by the Department of Foods and Nutrition be approved as proposed.
- *(xi) The scheme of the B.Sc. (Home) Clothing and Textiles examination consisting of the five heads of passing be approved as proposed.
- *(xii) The revision of course Nos. CT-140 (N), CT-348 (N) and C.T. 645 (A) of B.Sc. (Home) Clothing and Textile Programme be approved as proposed.
- *(xiii) The new course numbers of Clothing and Textiles Courses for the three year B.Sc. (Home) degree Programme be approved as proposed.
- *(xiv) The scheme of B.Sc. (Home)—Home Science Education and Extension examination consisting of five heads of passing be approved as proposed.

- *(xv-A) The new course numbers of Education and Extension Courses for the 3 year B.Sc. (Home) degree programme be approved as proposed.
- *(xv-B) The Semesterwise B.Sc. (Home) degree programme for the specialization of Home Science Education and Extension be approved as proposed.
- *(xv) The scheme of B.Sc. (Home)—Home Management examination consisting of five heads of passing be approved as proposed.
- *(xvi) The outlines of the courses of three year B.Sc. (Home)—Home Management Degree Course be revised and approved as proposed.
- *(xvii) Certain provision for regulating admissions to the M.Sc. (Home)—Home Management Degree Course.
- *(xviii) Six to ten candidates be admitted to the Jr. M.Sc. (Home) Home Management Course subject to satisfying certain conditions.
- *(xix) A common pattern of examination consisting of two heads of passing at the M.Sc. (Home) examination for all the Departments of the Faculty of Home Science.
- *(xx) The examination scheme of B.Sc. (Home) General Home Science Programme be approved as proposed.
- *(xxi) In the Final B.Sc. (Home) Degree Certificate/s the Major subject as well as the Final Grade be mentioned.

Recommended that the Semesterwise B.Sc. (Home) degree Programme for the Specialization of Home Science Education and Extension be approved as proposed.

Note:—The recommendations marked with * are approved by the Syndicate.

3. Board of Studies

There are 57 Boards of Studies in different subjects. The following 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 Languages and Literature	15-9-1980
(2)	Persian, Urdu and other Asian Languages and Literature	15-9-1980
(3)	Hindi Languages and Literature	27-10-1980
(4)	Gujarati Language and Literature	16-9-1980
(5)	Marathi Language and Literature	15-9-1980
(6)	English Language and Literature	28-10-1980

1	2	3
(7)	Modern and Ancient European Languages and Literature	16-9-1980
(8)	Archaeology and Ancient History Culture	23-9-1980
(9)	History	10-10-1980
(10)	Philosophy	19-9-1980
(11)	Linguistics	17-9-1980
(12)	Library Science	16-9-1980
(13)	Political Science	20-9-1980
(14)	Economics	22-9-1980
(15)	Physics and Meteorology	24-9-1980
(16)	Chemistry	30-9-1980
(17)	Botany	6-10-1980
(18)	Zoology	27-9-1980
(19)	Bio-Chemistry	26-9-1980
(20)	Microbiology	29-9-1980
(21)	Geology	25-9-1980
(22)	Mathematics	29-9-1980
(23)	Statistics and Acturial Science	27-9-1980
(24)	Geography	26-9-1980
(25)	Education and Educational Administration	1-12-1980
(26)	Psychology	1-10-1980
(27)	Banking and Business Finance	29-10-1980
(28)	Accounts	6-10-1980
(29)	Commerce including Business Administration	3-10-1980
(30)	Co-operation	6-10-1980
(31)	Business Economics	4-10-1980
(32)	Anatomy and Physiology	7-10-1980
(33)	Pathological Science, Pharmacology and Forensic Medicine	8-10-1980
(34)	(i) Medicine, Surgery, Mid-wifery etc.	19-5-1980
	(ii) Medicine, Surgery, Mid-wifery etc.	7-10-1980
(35)	Physiotherapy	11-10-1980
(36)	Technology (Textile)	15-10-1980
(37)	Civil Engineering and Applied Mechanics	23-10-1980
(38)	Mechanical Engineering	16-10-1980
(39)	Metallurgical Engineering	22-10-1980
(40)	Electrical Engineering and Electronics	17-10-1980
(41)	Chemical Engineering	17-10-1980
(42)	Architecture	18-10-1980
(43)	Applied Chemistry	21-10-1980

1	2	3
(44)	Applied Physics	21-10-1980
(45)	Applied Mathematics	22-10-1980
(46)	Pharmacy	16-10-1980
(47)	Law	25-10-1980
(48)	Painting, Sculpture, Applied Arts, Arts History and Graphic Arts	9-10-1980
(49)	Music, Dance and Dramatics	10-10-1980
(50)	Museology	9-10-1980
(51)	Child Development	10-10-1980
(52)	Foods and Nutrition	13-10-1980
(53)	Home Science Education and Extension	13-10-1980
(54)	Clothing and Textiles	14-10-1980
(55)	Home Management	14-10-1980
(56)	Social Work	23-10-1980
(57)	The Board of Studies in Sociology could not meet for want of quorum	

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

CHAPTER IV—BOARDS AND COMMITTEE

1. University Board of Sports

Two meetings of the Board of Sports were held during the year. The Board recommended that (i) the University team should participate in various Inter-University tournaments after selection of the teams by the Selection Committee, (ii) the cap from Shri P. N. Thakore for Athletics and shield and cups from Shri V. R. Naidu for Inter-Faculty Hockey and Football tournaments be accepted for the award of the same and (iii) the payment of Daily Allowance for the players from Rs. 10/- to Rs. 12-50 and for Managers/Coaches from Rs. 12 to Rs. 15 be raised and for cities of Bombay, Delhi, Calcutta and Madras, Daily allowance be paid at Rs. 15 and Rs. 18 per player and Manager/Coach respectively with effect from 1-7-1980.

2. Publications Board

One meeting of the Board was held during the year. It recommended and/or sanctioned grants for publication of the following : (i) two Journals of the Department of Zoology Animal Morphology and PAVO, Ornithology for the year 1980-81. (ii) the work 'Vasto Vishvamberkrit Padasamgraha' under Prachin Gurjar Granthmala. (iii) the work 'Professor Balwantraji Thakorni Kavita' under Prof. B. K. Thakore Publication Series. (iv) the work 'Economic Factors Explaining Literacy Rates Variation in Rural Areas—A case study of Gujarat' published in the M. S. University Economics Series No. 7 (v) the book 'The Pratisakhya Tradition and Modern Linguistics.'. (vi) the three works (a) 'Researches in class room climate and pupil motivation'. (b) 'Developing concern for Excellence and (c) Studies in Innovations and changes in Education (vii) revised edition of the book 'Museums Today' (viii) the work 'An enquiry into management of District Central Co-operative bank in Gujarat'.

3. Library Committee

Two meetings of the Committee were held during the year on 9-9-1980 and on 13-1-1981. It recommended allocation of funds to various departments, appointments of vendors etc.

4. Standing Committee on Equivalence of Examinations

The Committee met on 7th April, 1980. It considered a number of items regarding equivalence of various examinations. The decisions taken in its above meeting are as under :

- (i) The B.A. Part-I examination conducted by the Maharshi Dayanand University, Rohtak, be recognised as equivalent to the F.Y.B.A. Examination of this University on reciprocal basis for purposes of admission to available higher courses of studies in this University.
- (ii) The B.B.A. degree examination conducted by the Sardar Patel University, Vallabh Vidyanagar, be recognised as equivalent to the B.Com. degree examination of this University on reciprocal basis for purposes of admission to the M.S.W. course of this University.
- (iii) The two year Intermediate course in Arts examination conducted by the Sambalpur University, Burla (Orissa) be recognised as equivalent to the Higher Secondary Certificate examination (XII Std.) of the Gujarat Secondary Education Board, Gandhinagar, Gujarat State for purposes of admission to available higher courses of studies in this University, provided it is passed with atleast five subjects including "English" as one of the subjects as required as per existing rules.
- (iv) The Higher School Certificate Examination/General Certificate of Education (Advanced level) examination of Cambridge/Oxford/London University or of the different examining bodies in United Kingdom as mentioned in our O.175 after passing the School/General Certificates of Education (Ordinary level) of Cambridge University or of other recognised examining bodies in U.K. or similar recognised examinations conducted by the foreign examining bodies, be recognised as equivalent to the Higher Secondary Certificate examination (XII Std.) of the Gujarat State for purposes of admission to available higher courses of studies in this University, provided they have qualified for the award of the said Certificate/s and the said examination/s are passed with atleast 4 subjects including "English" and from amongst the remaining subjects atleast 3 respective stream subjects either Arts (including English) or Science or Commerce as the case may be and with the required percentage of marks where necessary as a regular candidate, if the students concerned are otherwise eligible for admission to the available higher courses of studies as per existing rules.
- (v) The Report of the action taken by the Vice-Chancellor/Pro-Vice-Chancellor under section 11 (5) (a)/and 12 (2) of the Act and O.177 in deciding the eligibility of 78 students for admission to the various courses of this University, be noted.

- (vi) The Intermediate Science, Intermediate Arts and Intermediate Commerce examinations conducted by the Board of High School and Intermediate Education, U.P. Allahabad, be recognised as equivalent to the Higher Secondary Certificate examination (XII Std.) of the Gujarat State, provided these are passed as regular candidates with atleast 5 subjects including "English" and including required stream subjects as the case may be and with the required percentage of marks where necessary as per existing rules for purposes of admission to available higher course of studies in this University as per existing rules.
- (vii) The various Intermediate examinations in Arts, Science and Commerce conducted by the Statutory Boards/Examining bodies in India after undergoing two years of instructions after passing High School examination or its equivalent examination of 10 years duration, be deemed to have been recognised as equivalent to the Higher Secondary Certificate examination (XII Std.) of the Gujarat State, provided these are passed as regular candidate with atleast 5 subjects including "English" and including required stream subjects as the case may be and with the required percentage of marks where necessary for purposes of admission to available higher courses of studies in this University as per existing rules.
- (viii) Made certain provisions for grant of eligibility certificates to Iranian Students for admission to available higher courses of studies for the academic year 1980-81.
- (ix) Mr. O.E.O. Ekpa be considered eligible for admission to the 1st Year M.A. (Fine) Museology course on the strength of his having passed the Bachelor of Arts with History and Archaeology from the University of Nigeria in 1975 under O. 177 as a special case, subject to the condition that his actual admission be decided only if he is in prior possession of student visa issued by the Indian Embassies Abroad.

5. Committee of Deans and Heads of Institutions :

The Committee met on 16th June, 1980 and recommended qualifications for teachers in Geology Department, Faculty of Science.

6. Finance and Establishment Standing Committee :

Eleven 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, contract for various items and requests from the staff members regarding study leave.

The Committee met as Budget Committee on 29th January, 1981. On scrutinizing various proposals received from the Faculties, Institutions and offices of the University and submitted to the Syndicate the revised estimates for the year 1980-81 and estimates for the year 1981-82.

7. Investment Committee :

The Committee held eleven meetings during the year, and its recommendations in respect of investment of the University funds were approved by the Syndicate.

8. Press Supervisory Committee :

Six meetings of the Committee were held during the year. At these monthly reports of the Press Manager regarding the working of the Press, Stationery Unit, Publications and Sales Unit and also Printing programme and made recommendations regarding purchase of paper, stationery, equipment etc. were considered.

9. Warden's Committee :

Two meetings of the Committee were held during the year and it recommended facultywise and hallwise allocation of seats for students in the first and second terms of the academic year.

10. National Service Scheme :

One meeting of the Advisory Committee for National Service Scheme was held during the year. It approved the report of (i) the special camping programme and (ii) General Activities of NSS if recommended (i) to print work diaries for NSS volunteers as per Government specifications and necessary modification from the University Press and (ii) to reimburse the medical expenses work Rs. 1,319-40 from the Regular NSS grant as a very special case to the persons who were injured at accident to the NSS vehicle when on duty for selecting the site for the NSS camps.

11. Selection Committee :

During the Period from 1-4-1980 to 31-3-1981 there were 59 meetings of the Selection Committee appointed under Section 48 (2) of the Act and they recommended 53 candidates for appointments to the posts of Professors and/or Readers in various Faculties and Institutions in the University. There were 57 meetings of the Standing Selection Committee for Junior Posts and 26 meetings of the Standing Committee for Class III posts and recommended 89 and 33 candidates respectively for appointment to various posts in the University.

12. M. S. University Students' Aid Fund Committee :

The Committee met on 5th January, 1981. The total amount of help given to students by way of tuition fees, examination fees, drawing materials, medical aid etc. during the year 1980-81 was Rs. 35,511-80.

13. Board of Extra Mural Studies :

The Board met on 29th August, 1980 and recommended a programme of extension lectures by the University teachers and outside experts. An amount of Rs. 9,900/- was sanctioned for this purpose.

14. Advisory Committee for the University Health Centre :

The Committee met on 9th March, 1981 for considering the constitution of Medical Board for Physical Fitness for University Services, the purchase of colorimeter, estimation of Blood Chemistry, Installation of water Cooler, treatment of non-dependents etc. and other related matters.

15. Board of Accounts :

The Board met on 6th October, 1980 and submitted its report on the accounts of the University for the year 1979-80 as required under Statute 105 to the Senate at its meeting held on 29th November, 1980. The Board met again on 14th March, 1981 for consideration of the programme of the Test Audit of University Accounts for the year 1980-81.

CHAPTER V—RESEARCH IN THE UNIVERSITY

1. During the year : 88 new students were registered for the Ph.D. degree. Their Facultywise break-up is :—24—Arts; 31—Science; 2—Commerce; 11—Education and Psychology; 1—Home Science; 4—Technology and Engineering and 2—Fine Arts (including Music College).

During the year 1980-81 the number of students actively pursuing Ph.D. Research work in various Faculties was as under

<i>Sr.No.</i>	<i>Faculty</i>	<i>Number</i>
(1)	Faculty of Arts	131
(2)	Faculty of Science	79
(3)	Faculty of Commerce	15
(4)	Faculty of Education and Psychology	110
(5)	Faculty of Home Science	20
(6)	Faculty of Medicine	22
(7)	Faculty of Technology and Engineering	43
(8)	Faculty of Law	10
(9)	Faculty of Fine Arts (including Music College)	23
(10)	Faculty of Social Work	5
	Total	458

2. Research Schemes Financed by the University

<i>Sr.No.</i>	<i>Name of the Teacher/s</i>	<i>Title of the Research Scheme</i>
Faculty of Arts		
1.	Dr. (Mrs.) Ranu Vanikar	Text Books materials and Teaching aids for First Year Compulsory English in Faculties of Home Science and Fine Arts: The New materials propose a communicative approach to English Language Teaching.
2.	Dr. Parukant Desai	An intensive study of Hindi Novels of the 8th Decade with special reference to language and new techniques of the Novel.

Sr.No.	Name of the Teacher/s	Title of the Research Scheme
3.	Dr. M. S. Oza	Gujarati Khanda Kavyona Chhando Vidhanma Padpurako.
4.	Dalal Bharati Ramanlal	Preparation of the source Material for the study of Comparative Literature.
5.	Dr. Desai Lovekumar M.	Experimental plays in Gujarati since 1960.
6.	Dr. Shirish J. Panchal	The concepts of creativity, originality and the concept organic whole in Sanskrit Poetics (with special reference to Kuntak).
7.	Dr. M. H. Siddiqui	Virtues of Quran and its influences on Human Society.
8.	Shri N. Rajaram	The Maithili Language Movement in North Bihar -A Sociolinguistic investigation.
9.	Dr. Maya Shah	An analysis of levels and rates of growth of Enrolment of children below the age of 14 years in the States of India.
Faculty of Science		
10.	Dr. S. J. Bedi	Ecology of Plants growing in the vicinity of mineralized Zones (Copper-Zinc-Lead Deposits near Ambaji (N. Guj.) with a view to fixing their indicator values.
11.	(i) Smt. Vimala Rangaswamy and (ii) Shri J. P. Vyas	Dediapada Taluka—A Study of Tribal Area.
12.	(i) Prof. S. S. Merh, and (ii) Dr. N. M. Vash	Geologic and Geomorphic Evaluation of the terraced plains of Kathmandu Valley in Nepal.
13.	(i) Dr. R. N. Sinha (ii) Dr. C. N. Gupta (iii) Dr. J. K. Parmar	Diagnostic Survey for integrated planning of Sinor Taluka (Baroda District).
14.	Dr. A. V. Ramchandran	Pineal in general metabolism and health.
15.	Dr. Gopinath N. Menon	Histophysiology and Ultrastructural studies on Avian Incubation Patch.
16.	Dr. D. M. Shringar- pure	Biostratographical and Palesecological Investigations of the Neogene Sedimentary Rocks of Kutch.
17.	Dr. H. S. Desai	Scattering of slow Electrons by Molecullles.

Sr.No.	Name of the Teacher/s	Title of the Research Scheme
Faculty of Education and Psychology		
18.	(i) Dr. (Miss) Manjuli Gon and (ii) Mr. Nirajan Vora	Thing person Orientation and alienation.
19.	(i) Prof. P. K. Dongre and (ii) Dr. D. R. Darji	A study of school Renewal with respect to organisational Health.
20.	Dr. (Smt.) Pillo M. Buch	A Comprehensive Study of Higher Secondary Schools of Baroda District.
21.	Dr. (Miss) Jyoti A. Christian	A Study of Papilo Psychic Processes, Leadership, Behaviour and Managing their Potential in Class-Rooms.
22.	Dr. (Miss) Manjuli Gon	A study of the effects of Sex-Roles on Anxiety.
Faculty of Technology and Engineering		
23.	Dr. J. M. Lohar	Synthesis of New Mesogens and Study of their Characteristics.
24.	Dr. J. R. Pandya	Optical study of Plastic Deformation of Ionic Crystals.
25.	Dr. D. K. Basu	The Morphology and Crystallography of Unidirectionally Solidified Eutetic Alloys.
26.	Dr. A. V. Shroff	Rheological aspects of fine and Course grout mixes.
27.	Mr. Krishna Kumar Rambilas Biyani	Failure of Mechanism of Rocks.
28.	Dr. A. K. Shah	Vibrating of wire Vis a vis Resistance type instruments for Geotechnical Structures.
29.	Dr. Subhesh Chand Patodi	Development of Discrete Energy Method for Irregular Orthogonal Mesh.
30.	(i) Dr. C. M. Patel and (ii) Dr. S. R. Agrawal	Convergence Summability and Approximation Problem of General Orthogonal Series.
31.	Dr. R. A. Vora	Liquid Crystalline Polymers.
32.	Dr. Y. K. Agrawal	Studies on Hydroxamic Acids and their metal complexes.
33.	(i) Mr. Vasdev Singh (ii) Dr. A. N. Roy	Studies in Pipe Line flow of solid liquid Mixtures (Hydrotransport of Coal, Lignite etc.).
34.	Dr. S. K. Agrawal	Effect of New Assitives on Foundry Moulding Sands.

Sr.No.	Name of the Teacher/s	Title of the Research Scheme
35.	Ranjit Kaur	Acute Phas Globating and Enzymes as an Index of Wound Healing.
36.	Mr. M. C. Gandhi	Investigation of Scisoric Rock movements by Slip-stock Phenomenon.
37.	Prof. Piyush V. Parikh	Floods, Cyclones and Earthquakes.
Faculty of Medicine		
38.	(i) Dr. S. Akolekar and (ii) Dr. H. C. Srivastava	Cytogemetic Study of Infertility.
Faculty of Home Science		
39.	Dr. (Smt.) Yogini Pathak	Anthropometric measurements of Children in Gujarat.
40.	Dr. (Miss) Jyoti K. Parikh	Parent Education Programme for Parents of Mentally Retarded Children.
41.	Mrs. Aruna P. Dave	Development of Curriculum for Social Studies for young children.
42.	Dr. (Miss) Sunder Gujaral	Effect of varied levels of Dietary Fat and Larvel doss on Lipod profile of the Host in Hookworm Infection.
Faculty of Fine Arts		
43.	Prof. C. C. Mehta	Bibliography of Drama Project.
44.	Shri Mahendra D. Pandya	Photographic Documentation of Wooden Sculpture and its relation in the Architecture of Sojitra, Vaso and Bhadran.
45.	Shri Ramesh Pandya	Documenting through tracing and Photographs in Colour of the murals of Shri Kashi Vishwanath Temple of Chandod.

3. Research Schemes sponsored by Outside Agencies

The following schemes in progress have been sponsored by the University Grants Commission, Ministries of the Central Government, Department of Government of Gujarat, Planning Commission and other Agencies like ICAR, CSIR, I.C.S.S.R., I.C.H.R., I.C.M.R., PL. 480, D.S.T. etc. :

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
Geography Department			
1.	Prof. V. A. Janaki, Retired Professor Retired Teachers under U.G.C. Scheme	(i) Commerce of Broach upto 19th Century (ii) Regional Approach to Rural Settlement Study (Area: Jambughoda, Sankheda, Naswadi) (iii) Urbanisation in South Gujarat	U.G.C. New Delhi U.G.C., New Delhi U.G.C., New Delhi
2.	Smt. V. C. Ranga- swamy and Shri J. P. Vyas	Dediapada Taluka A Study of a Tribal Area (Financed Rs. 1,500/- under U.G.C. Contingency Grant)	U.G.C., New Delhi
Hindi Department			
3.	Dr. P. K. Desai	The study of Hindi Novel written in the 6th Decade	U.G.C., New Delhi
History Department			
4.	Dr. V. K. Chavda	19th Century Culture in Gujarat. A Cross Regional Study	Indian Council of Historical Research.
5.	Dr. G. D. Sharma	Agrarian relations and economy of Western India, during the 18th Century with special reference to South Gujarat and Western Rajasthan.	U.G.C.
6.	Dr. K. S. Mathew	(i) The Portuguese in Gujarat and Maharashtra 1500-1707 (ii) Portuguese trade with India 1530-1600	I.C.H.R. U.G.C.
7.	Mrs. Gita Bajpai	A Short term project. Economic development in the two selected districts of British Gujarat—Surat and Broach during 18 years 1881-1956	U.G.C.
8.	Prof. S. C. Misra	Tarikh-i-Mahmud Shahi and Urban History Documents	U.G.C.

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
Political Science Department			
9.	Dr. V. G. Nandedkar	A study of Agricultural Administration in District Panchayats Finalisation of the questionnaire: Primary sources—notes in progress	U.G.C., New Delhi
Faculty of Science			
10.	Dr. L. J. Parekh	Studies on the Metabolism of Organic acids and their relationship to quality in Citrus fruits	U.S.D.A.
11.	Dr. S. D. Bhandari	Studies on the effects of Nutritional and Physiological stress on Phosphoinositide Metabolism in Rat intestine	U.G.C.
12.	Prof. C. V. Ramkrishnan	(i) Studies on Indian fermented foods	U.G.C.
		(ii) Studies on bacteria involved in the decomposition of industrial wastes	D.S.T.
		(iii) Studies on Kwashiorkor and Marasmus Children in Trivandrum and Madurai	U.G.C.
13.	Dr. S. K. Srivastava	(i) Role of polyamines in the development and maturation of seeds and fruits and germination of seeds	I.C.A.R.
		(ii) Studies on Polyamines and Phytate in relation to their role in seed physiology	U.G.C.
14.	Prof. S. S. Merh	Geological investigations of the quaternary terrains of Gujarat with special reference to their Geomorphology and Geochronology	Department of Science and Technology
15.	Dr. D. R. Gadekar	(i) Analysis of Satellite imagery of Gujarat with special reference to Sedimentology Geomorphology and Hydrology	I.S.R.O.

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
		(ii) Textural Characteristics of know recent Geolian Littoral and fluvial Sediments in Gujarat and their utility in reconstruction of Quaternary depositional environments.	U.G.C.
16.	Prof. S. S. Merh and Dr. N. M. Vashi	Grant in aid Project on Regional Terrain Evaluation of the coastline between Okha-Madhi (Gujarat) and Ratnagiri (Maharashtra)	Ministry of Defence
17.	M. M. Gandotra and Narayan Das	Infant Mortality and its Causes in Gujarat	Gujarat State
Faculty of Technology and Engineering			
18.	S. K. Agrawal and V. L. Gadgel	"Grain Refinement of Aluminium"	M/s. Indian Aluminium Co., Calcutta
19.	R. R. Vishvakarma and V. L. Gadgel	"Metallurgical Problems of Thermal Power Plants"	M/s. Gujarat Electricity Board, Baroda
20.	Dr. K. K. Rao	(i) Studies on the bacteriophages of pseudomonas and its pigments	C.S.I.R.
		(ii) Studies on degradation of cellulosic and lignocellulosic substrates by Fungi	C.S.I.R. (Scheme)
21.	Dr. J. M. Lohar	Exploration in the field of Flow Improvers: Synthesis of Polymer additives and evaluation of their characteristics	Silver Jubilee Fund (ONGC) M. S. University, Baroda.
22.	Dr. R. A. Vora	Studies in Thermotropic Liquid crystals	C.S.I.R.
Faculty of Home Science			
23.	Prof. Amita Verma	(i) Home Science and Population Education	F.P.A.I.
		(ii) Contact Home Economics: An International Family Planning Project of the AHEA-IFPP	A.H.E.A.-I.F.P.P.

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
24.	Prof. Amita Verma and Mrs. Chandra Agnihotri	Children's services and sources of Traditional Child Care	UNICEF
25.	Prof. Amita Verma and Dr. T. S. Saraswathi	The Child Development Curriculum and its relevance to job competencies	I.C.S.S.R.
26.	Prof. Amita Verma, Dr. Yogini Pathak, Miss Kiran Parekh and Mrs. Aruna Dave	Readiness for First Grade	Baroda Municipal Corporation
27.	Prof. Amita Verma and Mrs. Parul Dave	Utilization of services and programs planned by Government and voluntary Agencies with special reference to infants and Pre-schoolers at Sampoi, Panchmahal District	Adijati Peta Vistar Yojana Government of Gujarat, Dahod, Panchmahal.
28.	Prof. Amita Verma, Dr. Tara Gopaldas, Dr. T. S. Saraswathi (Chief Planners)	Social Inputs in Area Development Plan for Vadodara District	UNICEF and Gujarat Government.
29.	Dr. T. S. Saraswathi	(i) Understanding the Child in his community setting. An ecological perspective (ii) Understanding of the Adolescent girl in the slum community. An Ecological perspective (iii) Development of competence, related personality characteristics and coping strategies of school boys and girls	I.C.S.S.R. I.C.S.S.R. N.C.E.R.T.
30.	Dr. Veena Mistry and Mrs. Prerna Mohite	Learning Disabilities in Early Years	I.D.R.C., Canada
31.	Miss Kiran Parekh	To study the Social and cognitive abilities of pre-school children in multi-age group	U.G.C.

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
32.	Dr. Atula Derasari	A study to determine difference if any, in the scores obtained on Bayley scales of Infant Development by substituting different types of indigenous materials	U.G.C.
33.	Mrs. Parul Dave (Research Guide)	(i) Practices and Services related to Economic aspects Health, Dietary patterns and Family Planning in a Tribal Village of Gujarat (ii) An exploratory study of some socio cultural practices and beliefs of a tribal village in Gujarat	Government of Gujarat
34.	Miss Indira Mallya	Special Play Sessions: A Play-way method for children with special needs	I.C.S.S.R.
35.	Dr. Jyoti Parikh	Developing, implementing and evaluating home bound programme for non-institutionalized mentally retarded children	U.G.C.
36.	Prof. Tara Gopaldas	(i) Training Research in Nutrition Health Education for SNP field workers (ii) Training Field workers to execute the Special Nutrition Programme in Baroda (iii) Utilization of non-traditional food (Bassia latifolia) for feeding tribal population	Baroda Municipal Corporation. UNICEF Gujarat State Forest Development Corporation.
37.	Prof. Tara Gopaldas, Mrs. Subhadra Shesadri	Knowledge and practices of Doctors with respect to Young Child nutrition concept	I.C.M.R.
38.	Dr. Sunder Gujaral	(i) Protein quality of Chaisathi as compared with that of casein 2% fat milk and skimmed milk (ii) Nutritional status of the Host in Hookworm injection	N.D.D.B. Mrunalini Devi Charities.

Sr. No.	Name of the Teacher/s	Title	Name of the Financing Agency
39.	Mrs. Jayaprabha Patel	Nutrition, Health Education and Environmental Sanitation in Primary School.	N.C.E.R.T.
Faculty of Education and Psychology			
40.	Prof. D. B. Desai Prof. M. S. Yadav Dr. R. Govinda T. K. Sundaralakshmi	Evaluation of NAEP	Government of India.
41.	Prof. M. S. Yadav Dr. S. Roy Mr. M. B. Menon Mr. S. Kumar	Evolving Instructional Modules in the Methodology of Educational Research	U.G.C.
42.	Prof. M. S. Yadav Mr. S. Kumar	Study of Non-formal Education in Baroda and Bharuch	NCERT and CASE
43.	Dr. G. R. Sudame Prof. M. S. Yadav and Dr. S. Roy	A study of School Broadcast in Baroda District	E.R.I.C., N.C.E.R.T.
Faculty of Medicine			
44.	Dr. O. D. Gulati Dr. (Mrs.) K. G. Hemavathi and Dr. K. K. Shah	Investigations of some autonomic effects of tetramisole, a broad spectrum anthelmintic	Government of Gujarat.
45.	Dr. O. D. Gulati	Synthesis and Pharmacology of Fusaric Acid Analogues	C.S.I.R.
46.	Dr. P. T. Acharya (Deceased)	A study on Biochemical Composition of viscera collected from the foetus aborted (and still birth) at different ages of gestation	U.G.C.
47.	Dr. R. V. Bhatt	(i) Long term Sequelae of Tubal sterilization (ii) Effect of long acting NET-enenthate for conception control	I.C.M.R. I.C.M.R.
48.	Dr. Miss M. N. Hazra	Cytology for Early Detection of General Tract Malignancy High Risk Pregnancy Epidemiological and Management	Government of Gujarat.

CHAPTER VI—VISITING LECTURERS

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 Schemes of Exchange of Teachers or National Lectureship

Sr.No.	Name of the Lecturer	Dates	Subject/s
Faculty of Arts			
(1)	Professor P. V. Sukhatme, Maharashtra Association for Cultivation of Sciences, Poona	13-10-80 14-10-80 14-10-80 14-10-80 15-10-80	(i) Dandekar—Rath Method of Estimating Poverty. (ii) On Auto-Regulatory Nature of Energy Requirements in Man and the determination of Minimum Income. (iii) The Threshold Relationship between intake, body weight and mortality. (iv) The Type of Poverty and their implications for poverty.
College of Indian Music, Dance and Dramatics			
(1)	Dr. Ram Rao, Head, Dept. of Music, Bharatiya Vidyabhavan, Bangalore	20-9-80	Gharanas of Sitar playing with special reform to the style of Pt. Ravi Shankar.
(2)	Shri Shivkumar Joshi, Calcutta	10-12-80 11-12-80	(i) Gujarati Theatre in Calcutta (ii) Original Drama and its need on Gujarati Theatre (iii) Reading of a New Play written by Shri Joshi and discussion of its various aspects.
(3)	Shri Ambalal Sitari Bombay	29-12-80	Sitar
(4)	Shri Chudamani Vrindavan, Mathura	7-1-81	“ Ram Krishna Leela ”

Sr.No.	Name of the Lecturer	Dates	Subject/s
(B) Lectures under Extra Mural Grant or other Schemes Faculty of Arts (Archaeology Dept.)			
(1)	Prof. S. B. Deo, Director, Deccan College Post Graduate Research Institute, Poona.	24-9-1980	Fresh Evidence of Megalithic Culture
Economics Dept.			
(2)	Prof. P. M. Visaria, Sardar Patel Institute of Economic and Social Research, Ahmedabad	1-12-80	Two Lectures on "Poverty and Un-employment."
Sanskrit Dept.			
(3)	Dr. (Mrs.) Chitraben P. Shukla, Head, Dept. of Sanskrit, Sardar Patel University, Vallabh Vidyanagar	29-1-1981	The element of courses in the Vikramorvasiyam and Abhijnanaśākuntalam of Kalidasa.
Faculty of Science			
(1)	Professor Shanmugam	14-10-80	"The Chemistry of New Heterocyclic ring Systems".
(2)	Professor K. C. Joshi	8-12-80	"Some Aspects of Chemistry of Organic Flourine compounds".
(3)	Prof. P. V. Sukhatme	15-10-80	Nutritional Requirements of Elderly People.
Faculty of Technology and Engineering			
(1)	Prof. S. R. Palit, Emeritus Professor of Physical Chemistry, Indian Association for the Cultivation of Science Jadavpur	22-4-1980	Non-Faradaio Electrolysis and anomalous migration of Ions.
(2)	Prof. R. D. Patel, Ex-Vice-Chancellor, Sardar Patel University, Vallabh Vidyanagar	22-8-80	Polymer Progress in India.

Sr.No.	Name of the Lecturer	Dates	Subject/s
(3)	Dr. K. K. Khatu, Project Director, Operations Research Group, Baroda	5-9-80	Environmental Impact Assessment of Irrigation Projects.
(4)	Mr. Mchael, Phylwani of U.S.A.	17-1-1981	Scope and Prospects of Higher Education in Engineering and Technology in U.S.A. and Immigration Laws of U.S.A.
(5)	Dr. R. K. Ghosh, Dy. Director and Head, Rigid and Semi-Rigid Pavement Division, Central Road Research Institute, Delhi	29-1-1981	Present trends in Research Works in Rigid and Semi-rigid pavement.
(6)	Shri V. A. Wakankar, General Manager, R& D, Star Textile Engineering Works Ltd., Bombay	28-3-81	(i) Design Parameters of open and spinning system. (ii) Inchno-Electronics of open-end-spinning under Indian conditions.
(7)	Dr. L. F. Boswell, City University, London	6-1-81 7-1-81	(i) Soil Foundation open end spinning system. (ii) Geometric Nonlinear Analysis of Structures
		8-1-81 9-1-81	(iii) Offshore structural Analysis (iv) Computer Analysis of Tall Buildings.
Faculty of Education and Psychology			
(1)	Dr. S. M. Divekar Ex-reader Educational Administrator, Faculty of Education and Psychology	18-9-80	Goals of Education in Modern India and the role of a teacher in achieving them.
(2)	Shri K. S. Nagraj Principal, I.P.C.L., Jawaharnagar, Baroda.	18-9-80	Relevance of the present school curriculum.
(3)	Dr. (Miss) Saraswati Pandit Ex-lecturer, Dept. of Edu- cational Adviser, Faculty of Edu. & Psy.	9-10-80	Rethinking Women's Education.

Sr.No.	Name of the Lecturer	Dates	Subject/s
(4)	Dr. Ambubhai Patel District Ed. Officer, Baroda, Head, Deptt. of Faculty of Edu. & Psy.	29-12-80	Problems of school administration.
(5)	Prof. D. C. Kar Education, Gauhati University	30-12-80	Betterment of Teacher Education Programme.
(6)	Shri Bhogilal Bhansali Station Director, All India Radio, Baroda	31-12-80	Mass-media in Education
(7)	Shri S. N. Banerji Program Director, ORG Group, Sarabhai Chemical	12-1-81	Psychology of changing pattern of society.
(8)	Shri Ramanlal Joshi Prof. of Gujarati, Bombay University	22-1-81	Influence of Gujarati Literature among the present pupils.
(9)	Shri A. L. Shastri Industrial Consultant Manisha Society, Baroda	28-1-81	Role of Social Sciences in the Industry
(10)	Dr. P. N. Sheth	28-1-81	Campus Unrest: Social and Educational environment.
(11)	Shri M. V. Prasad Principal, Bharati Vidyalaya Baroda	29-1-81	School as a preserver and promotor of culture.

College of Indian Music, Dance and Dramatics

(1)	Shri G. G. Ranade, Scholar from Dombivali	18-10-80	"Shruti"
(2)	Smt. Uma Sharma, Lecturer in Sitar, Meerut University	8-1-81	Sitar Recital

(C) Lectures delivered on the premises of the Institution by Lecturers invited by the Institution concerned

Faculty of Arts

(1)	Prof. Catherine Free Visiting American Scholar at Music College	9-10-80 22-10-80	(ii) Greek Theatre (ii) Greek Theatre
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Sr.No.	Name of the Lecturer	Dates	Subjects
(2)	Prof. D. Goodyear, Fulbright Professor, University of Madras	15-10-80	The Language of the Theatre
(3)	Prof. Peter Alcock, Newzeland	2-2-81	The Non-European Writing of the South Pacific.
(4)	Prof. (Miss) Maria Renee Cura, Prof. of Geography at National Teachers Training Institute, Argentina	3-12-80 4-12-80	(i) "Argentina : Land & people" (Illustrated with colour slides) (ii) "Countries of Latin American"
Faculty of Science			
(1)	Prof. A. V. Juorio, Saskatoon, Canada	8-12-80	(i) Is Tyramine involved in Psychosis?
		19-12-80 22-12-80	(ii) On Role of neurotransmitters in Psychological disorders.
(2)	Dr. Sanghavi, Medical College, Baroda	24-1-81	Blood cancer
(3)	Prof. L. A. Horrocks, Ohio, U.S.A.	6-1-81	(i) Activities of Choline & ethanolamine Phosphotransferases during development of brain.
		13-1-81	(ii) Mechanism of demyelination and myelin structures.
		20-1-81	(iii) Ether lipid in brain synthesis, turnover, function.
		27-1-81	(iv) Metabolism of glycerophospholipids in brain during paralytic stroke (ischemia).
(4)	Shri Ravi Jadhav, Space Research Organization, Ahmedabad	8-9-80	Geobotanical Studies.
(5)	Dr. R. D. Antao, Alembic Chemical, Baroda	9-9-80	The Story of Antibiotics.
(6)	Dr. Sverker Hogberg	27-2-81	Synthesis of Macrocyclic.
(7)	Prof. (Miss) Maria Rence Cura, Prof. of Geo- graphy, National Teachers Institute, Argentina	3-12-80 4-12-80	(i) Argentina : Land & People (Illustrated with colour slides). (ii) Countries of Latin America.

Sr.No.	Name of the Lecturer	Dates	Subject/s
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Faculty of Home Science

Child Development

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|-----|--|-------------------------------|---|
| (1) | Mrs. Armitry Desai,
Prof., Social Work
at the Nirmala Niketan,
Bombay | 22-9-80 | Seminar on the Readiness Project
being conducted with the Bombay
Municipal Corporation. |
| (2) | Dr. Richard Lansdown,
Clinical Psychologist
from the Hospital for
sick children, Great
Ormond Street, London | 24-11-80
and
25-11-80 | Lectures on children in Need of
Special Care |
| (3) | Dr. S. M. Shah,
IES Jt. Sec. and Chief
of the Programme
Evaluation Organization | October,
1980 | The P.E.O. with particular reference
to programme on Health, Education,
Nutrition, Child Development and
Social Sciences. |
| (4) | Dr. Kamala Sohoni,
Former Director,
Institute of Science,
Bombay University | June 80 | Community Guidance in Food adul-
teration on home. |
| (5) | Mr. S. A. Shah,
Chairman and Managing
Director, Gujarat State,
Forest Development
Corporation | August
80 | Food from the forest. |
| (6) | Dr. Malcolm Parry,
Home Economics Dept.,
University of Surrey,
U.K. | 17-7-80
18-7-80
18-7-80 | (i) Scope of Ergonomics as a
subject of study.
(ii) Research Techniques in Ergo-
nomics
(iii) Noise Pollution and prospects
of Dealing with noise pollution. |

Faculty of Law

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|-----|--|----------|------------|
| (1) | Shri Harubhai Mehta,
Central Govt. Counsel
and Advocate,
Gujarat High Court,
Ahmedabad | 20-12-80 | Legal Aid. |
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CHAPTER VII—FACULTY OF ARTS

1. Courses of Studies

- (a) The Courses of Studies remained the same as in the previous year :
(b) New courses started:

- (1) Political Science Department
S.Y.B.A. Major—International Relations.
(2) Geography Department

(The following new papers at the S.Y.B.A. (Special and Sub.) S.Y.B.Sc. (Spe. and Sub.) were introduced consequent upon new pattern of education (10 + 2 + 3)

- (i) S.Y.B.Sc. (Spl. and Subs.) :

Paper I—Principles of Economic Geography
Paper II—India
Paper III—Practical Geography

- (ii) S.Y.B.A. (Spl.)

Paper I—Principles of Economic Geography
Paper II—India
Paper III—Elementary Cartography

- (iii) S.Y.B.A. (Subs.)

Paper I—Principles of Economic Geography
Paper II—India

2. Number of Students

The following number of students enrolled in various classes during the year 1980-81 was as under :

Class	Men	Women	Total
(1) F.Y.B.A.	323	426	749
(2) S.Y.B.A.	242	281	523
(3) T.Y.B.A.	276	226	502
Total	841	933	1774

Class	Men	Women	Total
(4) M.A.—Part I	145	118	263
(5) M.A.—Part II	137	78	215
(6) Library Science	7	40	47
(7) Ph.D.	9	10	19
Total	298	246	544
(8) Post-Diploma in German	2	2	4
(9) Post-Diploma in Russian	1	—	1
Total	3	2	5
(10) Diploma in German	31	12	43
(11) Diploma in French	17	4	21
(12) Diploma in Russian	5	—	5
Total	53	16	69
(13) Certificate Course in German	208	50	258
(14) Certificate Course in Russian	4	—	4
(15) Certificate Course in French	115	28	143
Total	327	78	405
Grand Total	1522	1275	2797

3. Staff

(a) Present Position :

During the year the staff consisted of 12 Professors, 22 Readers, 63 Lecturers, 19 Class III Staff including Technicians and 24 Class IV Employees.

(b) New Appointments :

- (1) Smt. Sudha P. Pandya, Lecturer in English
- (2) Dr. R. H. Dholakia, Reader in Economics
- (3) Dr. M. K. Nath, Lecturer in Linguistics
- (4) Shri Samsuddin Siddiqui, Lecturer in Persian
- (5) Smt. A. A. Siddiqui, Lecturer in Persian
- (6) Shri Faizanullhas S., Lecturer in Arabic
- (7) Dr. G. N. Devi, Lecturer in English
- (8) Dr. S. R. Bhatt, Professor of Philosophy
- (9) Dr. K. N. Momin, Lecturer in Archaeology
- (10) Dr. Smt. S. S. Srinivasan, Lecturer in Archaeology
- (11) Miss E. Manickam, Lecturer in English

(c) Teachers upgraded to Higher Position :

- (1) Dr. M. H. Siddiqui, —Reader in Persian
(Lecturer in Persian)
- (2) Dr. S. G. Kantawala —Professor of Sanskrit
(Reader in Sanskrit)
- (3) Dr. D. Srinivasan —Reader in German
(Lecturer in German)
- (4) Dr. (Smt.) L. A. Rede —Reader in Economics
(Lecturer in Economics)
- (5) Dr. K. S. Mathew —Reader in History
(Lecturer in History)

(d) Teachers who left the University :

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|------------------------------------|-------------------------|----------|
| (1) Dr. S. R. Bhatt, | Professor of Philosophy | Resigned |
| (2) Smt. S. N. Joshi, | Lecturer in English | Retired |
| (3) Miss E. Manikam, | Lecturer in English | Resigned |
| (4) Dr. U. N. Singh | Lecturer in Linguistics | Resigned |
| (5) Professor K. C. Panchanandikar | Professor of Sociology | Retired |

(e) Non-Teaching employee expired :

- | | |
|-----------------------|--------------------|
| Smt. Kantaben Parikh | Class IV Servant |
| Dr. (Miss) S. Nachane | Reader in Sanskrit |

4. Professional Growth of the Staff :

(a) Published Articles/Papers :

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
Archaeology Department			
(1)	R. N. Mehta	(i) Puratattvani Aradhana	(1) Pathik - June 1980
		(ii) Paschimabharatna Nagaro - Eka Vaignanik Drastibindu	(2) Puratan -Porbandar 80-81 Vidyapith - June, 1980
		(iii) Anhilwad Patan and Meru Tungachary	Pathik - Sept./Oct. 1980

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
		(iv) Sahastraling Talav	Swadhaya - Sept./Oct. 1980
		(v) Nistar Puravastu Vidya	Vidyapith - Sept./Dec. 1980
		(vi) Itihasama Antar Vidyashakhiya	Vidyapith - Sept./Dec. 1980
		(vii) Champener-An Experiment in Mediaeval Archaeology	Madhu - Agan Kala Prakashan, New Delhi 14-1-1981
(2)	R. N. Mehta & Dr. C. Margabandhu	Sahasraling Tank, Patan	Purana, July 1980
(3)	K. T. M. Hegde	(i) Ancient Pottery Kilns	Indian Puratattava, The Journal of Archaeological Society of India, No. 9, 1980
		(ii) Therolumine - seone Dating of Kankar nodules from Buried Soil in the Lower Narmada Valley	Proceeding of the Special symposium of Natural Radiation Environment, Bhabha Atomic Research Centre, Bombay, 1981
(4)	D. R. Shah	Animal remains at Kanewal	Excavation of Kanewal - A Report, M.S. University Series No. 17, March 1981
(5)	R. N. Mehta and V. H. Sonawane	A Pre-historic Engraving	Man and Environment, Vol. V, 1981
(6)	V. S. Parekh	Gujaratani Ketalika Bhairava Pratimao	Vidyapith (Gujarat), No.105, May/June 1980,
(7)	V. H. Sonawane	Matariyana Guptakal in Matruka Shilpo (Gujarati)	Swadhyaaya (Gujarati)
		Economics Department	
(8)	S. R. Hashim	(i) "Estimating Real National Income	<i>Economic Analyst</i> , Punjab School of Economics, Vol. I, June 1980.

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
		(ii) "Regional Variations in Industrial Development since Independence"	<i>Journal of the M. S. University of Baroda</i> , Vol. XXVII-XXVIII, Social Science Number 1978-79 Issue (Number actually published in March 1981)
(9)	N. M. Pandya	"Evolution of the International Monetary System since 1971"	<i>Journal of the M. S. University of Baroda</i> , Vol. XXVII-XXVIII, Social Science Number 1978-79 Issue (Number actually published in March 1981).
(10)	R. H. Dholakia	(i) "On Estimating Net Fixed Capital Formation at Constant Prices in Registered Manufacturing Sector at State Level (Jointly with Shri P. M. Patel)	<i>Journal of Income and Wealth</i> , Vol. IV, No.1, December 1980
		(ii) "State Income Inequalities and Interstate Variations in Growth of Real Capital Stock" (Jointly with Dr. B. H. Dholakia)	<i>Economic and Political Weekly</i> Vol. XV, No. 88, September 20, 1980
		(iii) "Project Appraisal of Minor Irrigation Tanks - A Study of Panchmahals" (Jointly with Shri Sudayshau Iyengar)	<i>Vishlisan</i> October, 1980
		Gujarati Department	
(11)	S. H. Joshi	(1) Kasmal Devay Harisha Vidhema	૧. કાશ્મીર ટ્રૌમાસિક-એપ્રિલ, ૧૯૮૦
		(2) Sartre in Modern Context	૨. કાશ્મીર ટ્રૌમાસિક-નવેમ્બર ૧૯૮૦

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
		(3) Literature and Philosophy	3. ફાળસ ત્રૈમાસિક-માર્ચ, ૧૯૮૧
(12)	H. M. Trivedi	(૧) અંધકારની આસ્વાદ્ય રૂપલીલા	“સંસ્કૃતિ” ત્રૈમાસિક-ઓક્ટો.-નવે.-ડિસે. ૧૯૮૦
(13)	S. M. Dave	(૨) તુલનાત્મક સાહિત્ય સ્વરૂપ, પ્રકૃતિ અને ગુજરાતી સાહિત્યના સંદર્ભમાં	“પરબ” માસિક-ફેબ્રુઆરી, ૧૯૮૧
(14)	S. J. Panchal	(૧) સુરેશ જોષીકૃત “વરપ્રાપ્તિ”	૧. “કંકાવટી”, જૂન, ૧૯૮૦
		(૨) હેમિંગ્વેની બે વિશિષ્ટ વાર્તાઓ	૨. “ફાળસ ત્રૈમાસિક-જૂન, ૧૯૮૦
		(૩) સાહિત્યની સાધના	૩. “એતદ્”-જૂન, ૧૯૮૦
		(૪) ધૂમકેતુકૃત “સ્ત્રી હૃદય”	૪. “કંકાવટી”, સપ્ટેમ્બર, ૧૯૮૦
		(૫) વિવેચનના વ્યાકરણથી વિવેચનના તત્ત્વજ્ઞાન સુધી	૫. ફાળસ ત્રૈમાસિક-સપ્ટેમ્બર, ૧૯૮૦
		(૬) રા. વિ. પાઠકકૃત “મુકુન્દરાય”	૬. “કંકાવટી”-ઓક્ટોબર, ૧૯૮૦
		(૭) ગુલામ મોહમ્મદ શેખકૃત “એલું થાય છે કે”	૭. સંસ્કૃતિ-ડિસેમ્બર, ૧૯૮૦
		(૮) જયંતિ દલાલકૃત “આભલાનો ટૂકડો”	૮. “કંકાવટી” ડિસેમ્બર, ૧૯૮૦
		(૯) ગુલાબદાસ શ્રોત્રકૃત “નીલીનું ભૂત”	૯. “કંકાવટી”-નવેમ્બર, ૧૯૮૧
Hindi Department			
(15)	M. G. Gupta	(i)	Suraj Mal Journal, Calcutta Volume, Vol. Sam. 2037
		(ii)	Premchand Centenary Special Number, December 1980
(16)	B. D. Sharma		
History Department			
(17)	G. D. Sharma	(i)	Proceedings of Indian History Congress. Waltair Session—New Delhi, 1980

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
		(ii) A Book Review on the Kacchawahas of Ambar by V. S. Bhargava	Indian Archives, 1980
(18)	K. S. Mathew	First Mercantile Battle in the Indian Ocean—The Afro-Asian Front, against Portuguese 1508-1509	Proceedings of the Second International Seminar on Indo-Portuguese History—Lisbon 1981.
(19)	Gita Bajpai	Some aspects of the changing Agrarian Economy in some of the talukas of the Gaekwad State during the years 1860—1880	Proceedings of the Indian History Congress, Waltair, 1980
(20)	G. A. Pandor	Muslim Leadership—a problem on article in Gujarati	A ab-e-Hayat—November, 1980
Sanskrit Department			
(21)	S. G. Kantawala	(i) Sraddhasukta (RV)	Navabharati, Diwali Issue, Oct./Nov. 1980
		(ii) Rgveda : eka Samiksatmaka Parichaya	Souvenir — Brahmana Sabha, Baroda, Feb. '81
		(iii) Matsya Purana : A Brief Review	Dr. K. V. Sarma Facilitation Vol., Dec. 1980
		(iv) Review of “Vaidika-Sahitya ane Samskriti by Gautam V.	Svadyaya, Vol. 17, No. 4
(22)	S. M. Dave	Shri Ranga-Avadhuta Manasa Puja-Prayogah-Transaltion	Nareshwar to Nada, April 1980 to Oct. 1980
(23)	U. S. Deshpande	(i) Pandita-Kavisti Ranga-vadhutah (in Sanskrit)	Samvid—May 1980
		(ii) Samaveda-eka Parichaya	Souvenir, Brahmana Sabha, Baroda, Feb. '81
			Sanmargamitra, March 1981
(24)	J. A. Jani	Snehacakarm (Play in Sanskrit)	Samvid, Bombay, Aug. 1980

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
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German Department

- (25) D. Srinivasan
Der Einsatz von Grammatiken im Fremdsprachenunterricht
German Studies in India, September, 1980
Trivendrum
- Deutsche Literaturgeschichte von den Anfängen bis zur Gekonwart-Rezension
German Studies in India, December, 1980
Trivendrum.

Political Science Department

- (26) A. P. Rana
(i) "Decoronization and Nonalignment : My the and Relaties"
"World Focus", September, 1980
- (ii) "Foreign Policy and National Capability : The Paradigmatic Dilemma of Contemporary Nonalignment"
Surendra Chopra ed. Studies in India's Foreign Policy Amritsar : Univ. Press, 1980
- (iii) "The Development of International Studies in India . A Profile of Some Critical Constraints"
K. P. Misra and Richard Smith Real, eds. International Relations Theory : Western and Non-Western Perspectives (New Delhi : Vikas, 1980)
- (iv) Political Science Review April-June 1980
- (v) "Nonalignment as a Developmental foreign Policy Strategy : A conceptual enquiry into its systemic capabilities"
Indian Journal of Political Science, October-December, 1980

(b) Published Books and Brochures

Sr. No.	Name of the Author/s	Name of the Books	Name of the Publisher
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- Archaeology Department**
- (1) R. N. Mehta and K. N. Momin
Excavations at Kanewal — A report
M. S. University Series, Vol. No. 17, March, 1981.

Sr. No.	Name of the Author/s	Name of the Books	Name of the Publishers
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- (2) R. N. Mehta
Ithasni Vibhavana
Gujarat Vidyapith, Ahmedabad, March 1981

Economics Department

- (3) S. R. Hashim and M. M. Dadi
Report on Block Development Plan for Chhotaudepur Taluka
M. S. University Press, September, 1980
- (4) V. N. Kothari (Jointly with P. R. Panchmukhi)
Research of Edu. Survey of Economics
ICSSR, New Delhi

Gujarati Department

- (5) S. H. Joshi
(i) तथापि (काव्यसंग्रह)
(ii) એકદા નૈમિષારણ્યે (દૂંકા વાર્તા સંગ્રહ)
- (i) સાહિત્ય સંગમ, સુરત, જુલાઈ-૧૯૮૦
(ii) સાહિત્ય સંગમ, સુરત, જુલાઈ-૧૯૮૧

Hindi Department

- (6) D. S. Shukla
(7) B. D. Sharma
(8) P. K. Desai
- रीति साहित्य, समीक्षा और शोध
(Translated from Gujarati)
छिन्नपत्र
(Collection of Hindi Poems)
(१) मिजनि के फूल
(२) युग निर्माता प्रेमचन्द्र तथा कुछ अन्य निबंधः
- प्रकाशक साहित्यभारती, मथुरा

History Department

- (9) V. K. Chavda
Modern Gujarat
Vision Books, New Delhi, 1981

Sanskrit Department

- (10) S. M. Dave
Translation in English of the Sanskrit Text of Std. VIII
Gujarat State School Text-Book Board May-1980

Sociology Department

- (11) J. M. Panchanandikar
(i) "Democratic Structure and Socialization in Rural India : Analysis of Participation Alienation and Consensus"
pp :—Xlix and pp. 1 - 332, Price Rs. 120-00
Popular Prakashan, Bombay — December, 1980

Sr. No.	Name of the Author/s	Name of the Books	Name of the Publishers
(12)	P. J. Patel	Industrial Front, Seminar (Ed. Ramesh Thapar, New Delhi), 250, June 1980	pp. 21-25, January, 1980

(c) Papers presented at All Level Seminars/Conferences etc. :-

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
(1)	R. N. Mehta	(i) Saurashtra Itihas Parishad (3rd) at Porbandar on 17, 18 & 19-5-80	Puratatvani Aradhana
		(ii) Gujarat State Universities Teachers History Conference at Vallabh Vidyanagar on 16 and 17-8-80	Ithasma Antarvidyashakhiya Abhigam
		(iii) Sixth Gujarat Itihas Parishad at Rajpipla on 14-15/11-80	Bharuch Jilla nu Puratattva
		(iv) Centenary celebrations of 1400th Hijra Era International Seminar on Islam's contributions to the culture and civilization of world with special ref. to India at Delhi on 28-29/1-81	Muslim towns and Architectures in Western India
		(v) Second Annual Conference of the Place Names, Society of India at Bangalore on 6-7-8/3/81	Place Names and undertaking the past
(2)	V. H. Sonawane and K. N. Momin	All India Conference of Archaeological Society of India and Indian Society of pre-historic quaternary at Allahabad on 29-11-80 to 3-12-80	The Harappans in Kheda Dist. of Gujarat
		do	The Harappans in Kheda Dist. of Gujarat

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
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English Department

(3)	R. K. Raval	All India English Teachers' Conference, Varanasi	December 28-29 and 30, 1980
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Economics Department

(4)	V. N. Kothari jointly with Dr. M. M. Dadi and Dr. B. B. Patel	Second Indo-French Seminar of Economics of Education (Equity Efficiency Problem in Education) 16-20, December, 1980 University of Madras, Madras	"Access to Higher Education and Equalization of Educational Opportunities through Freshships"
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(5)	S. R. Hashim	Gujarat Economic Conference, Sardar Patel Institute, Ahmedabad, November, 1980	"Block Development Planning in Gujarat"
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(6)	R. H. Dholakia	Seminar on District Project Planning held at Institute for Financial Management and Research, Madras, 22-23 September, 1980	"On Short-cut Methods of Calculating"
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Geography Department

(7)	V. C. Rangaswami and J. P. Vyas	II National Cartography Conference at Pune from 12th December, 1980 to 14 December, 1980 sponsored by INCA, New Delhi, Survey of India, Dehradun and University of Pune	Maps as Tools of Analysis and Communication
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(8)	S. M. H. Rizavi	Symposium on "Urban and Regional Development" at the Department of Geog., University of Bombay, Bombay from 18th to 21st February, 1981	Pattern of Seasonal Migration — A case study of a tribal area.
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History Department

(9)	S. C. Misra	(i) At the U.G.C. Sponsored Seminar on Political change and Socio-Economic Structure, in the 18th Century India, Amritsar April, 1980	Literature in the century of <i>Criata</i>
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Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
		(ii) Western Zonal I.C.A.R. Seminar in the Socio-Economic History of Western India, with Special reference to Sea. February, 1981. Panjim Goa	Urbanization and Maritime History
(10)	V. K. Chavda	(iii) Indian History Congress December, 1980, Bombay.	The Sultans of Delhi, Secularist Critique
		(i) International Seminar on Trade and Urbanization in Western India during the 16th-19th centuries. M. S. University, Baroda, October, 1980	Mandvi (Kutch)—an idea of Town and Trade in 1936-37
		(ii) XII Conference of Indian Institute of Historical Research, Calcutta held at Almora, 1980	Nanji K. Mehta, An Early 20th Century Gujarati Entrepreneurship in East Africa
(11)	S. K. Desai	(iii) Indian History Congress, Bombay 1980	19th Century Social Reform: A Contemporary Evaluation
		Indian History Congress, Bombay 1980	Some aspects of Society in 17th Century Gujarat
(12)	G. D. Sharma	(i) U.G.C. Sponsored Seminar on Political change and socioeconomic structure in the 18th Century. The Guru Nanak Dev University, Amritsar, April, 1980	Political Change and Rajput Nobility during the Eighteenth Century
		(ii) International Seminar on Trade and Urbanization in Western India, M. S. University, Baroda, October, 1980	The Economy of Paragana Towns in Rajasthan during the 17th & 18th Centuries

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
		(iii) Indian History Congress, Bombay, 1980	Vyaparis and Mahajans in Western Rajasthan during the Eighteenth Century
		(iv) Western Zonal I.C. H.R. Seminar on the Socio-economic History of Western India, with special reference to Sea., Goa, February, 1980	Some aspects of the Economy of South Gujarat during the 2nd half of the 18th Century. A case study of the Paraganas of Baroda and Jambusar
(15)	K. S. Mathew	(i) Indian History Congress, Bombay, December, 1980	Commodity composition of the Indo-Portuguese Trade in the early 16th Century.
		(ii) I.C.H.R. Zonal Seminar, Xavier Centre of Historical Research, Goa, February, 1981	The Portuguese Trade on the West Coast of the India in 16th Century and the role of the German Financiers.
(16)	U. R. Patel	Indian History Congress, Bombay, 1980	"Saraswtichandra" as a source for Social History
(17)	Gita Bajapai	(i) American Historiography study course ASRCH-Hyderabad, March 25th to April, 1980	An analysis of the forces and factors affecting the course of Agrarian development in U. S. A. and India in the 19th Century: a comparative study
		(ii) International Seminar on Trade and Urbanization in Western India, 15th to 19th Century, M. S. University, October, 1980	Trade and Urbanization. A case study of the selected regions of the Bombay Presidency and the Gaekwad State in the 2nd half of the 19th Century

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
		(iii) Indian History Congress, Bombay, 1980	The Growth of Baroda city in the 2nd half of the 19th Century A study in Urban History of select Region in Western India
		(iv) The ICHR Seminar, Goa, Xavier Centre of Historical Research, Goa, February, 1981	An Inquiry into the Social and Economic Changes in a select region of Western India during the 2nd half of the 19th Century
(18)	A. P. Rana	(i) All India UGC Workshop on the Revision of International Relations syllabi, Chandigarh, Panjab University, April 1980	"The Study of International Relations in India" (Working paper for the Workshop)
		(ii) 40th Indian Political Science Association's Conference, Mysore, December, 1980	"Strategic Considerations in Indian Foreign Policy." (Panel Chairman's Working Paper)
(19)	V. G. Nandedkar	40th Indian Political Science Association's Conference, Mysore, December, 1980	"Development Administration in Agricultural Areas"
(21)	H. C. Shukul	(i) 40th Indian Political Science Association's Conference, Mysore, December, 1980	"Super Power Crisis Management, the Indian Ocean and India's Diplomatic and Stratific Options."
		(ii) All India Seminar in American Political History, American Study Research Centre, Hyderabad, March 1981	"Domestic Constraints on Wilson's Foreign Policy"

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
Sanskrit Department			
(22)	Prof. S. G Kantawala	A. I. O. H., Shantiniketan, Nov., 1980	Some observations on Vasistha and his Progeny in the Regveda Smrti in the Brahmasutras.
(23)	Smt. U. S. Deshpande	(i) -Do- (ii) Gujarat State Sanskrit Teachers' Association Conference, Nadiad, December 1980	Yaksa as an etymologist

(d) Talks given at different Universities / Institutions :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
Archaeology Department			
(1)	Prof. R. N. Mehta	Kurukshetra University, Kurukshetra, on 6-1-81	Medieval Archaeology
(2)	Prof. V. N. Kothari	Y. S. Arts and K. S. Shah Commerce College, Baria, 21-1-1980	"Poverty in India"
(3)	Professor S. R. Hashim	(i) Sardar Patel Institute of Economic and Social Research, Ahmedabad. December 22-23, 1980 (ii) Railway Staff College, Baroda 28-1-1981	Three Lectures on "Planning for Transport"
(4)	Dr. R. H. Dholakia	B. J. Commerce College, Vallabh Vidya Nagar, 12th September, 1980	"Planning for Transport"
(5)	Dr. R. H. Dholakia	Training Programme on State Planning, Sardar Patel Institute of Economic Research, Ahmedabad, 1st December, 1980	"Discounted Cash Flow Methods in Investment Analysis"
(6)	Dr. R. H. Dholakia	(i) -Do-	"Micro-Level Planning in the Framework of Multi-Level Planning"
		(ii) -Do-	"Formulation of Employment Generating Plans at the Block Level"

Name of the Teacher	University/Institution	Subject of the Lecture
(ii)	Training Course For the District Planning Officials	"Centre and State Five Year Plans"
(iii)	Navjivan Arts and Commerce College, Dahod	"Price Consumption Curve and Elasticity of Demand"
English Department		
(7A) Prof. J. Birje Patil	(1) Boston Fulbright Committee at Harvard Faculty Club, Cambridge, Mass., U.S.A., March, 1981	Problem of Alienation and Identity in Commonwealth Lib.
	(2) Brown Bag, International Club, Providence R. I. U.S.A., Jan. 1981	Problems of Higher Education in India
	(3) English at Brown University R. I., 27,28 Feb., March, 1981	Hagavadane-play in English By G. Karnard
(7) Dr. (Mrs.) R. V. Vanikar	Seminar on D. H. Lawrence at Navjivan Arts, Science College, Dahod, December 5, 1980	Primitivism in the Novels of Lawrence with special reference to "Women in Love"
Gujarati Department		
(8) Professor S. H. Joshi	Five lectures under the auspices of Gujarati Sahitya Parishad, Ahmedabad at Rajkot in April-May, 1980	(i) Contemporary Human Situation (ii) Kafka-Chromic-ter of our times (iii) Samuel Beckett Choiceless Awareness (iv) Thomas Mann—The Magic to Mountain (v) Rainar Maria Rikko His Poetry

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(9)	Dr. H. M. Trivedi	1. પ્રેમાનંદ સાહિત્યભવન, વડોદરા. મે-૧૯૮૦ 2. "કાવ્યગોષ્ઠિ" સત્ર, છોટાઉદેપુર, ડિસેમ્બર, ૧૯૮૦	1. ઉશનસની કવિતા 2. સર્જનાત્મક ભાષા
(10)	Dr. S. M. Dave	1. Arts & Commerce College, Devagadh Baria 2. જ્ઞાનસત્ર, (ગુજરાતી સાહિત્ય પરિષદ સંચાલિત), સણોસરા, બન્યુઆરી, ૧૯૮૧	1. કાવ્યની ભાષા 2. તુલનાત્મક સાહિત્ય : સ્વરૂપ, પદ્ધતિ અને ઉદ્ભવ, ગુજરાતી સાહિત્યના સંદર્ભમાં
(11)	Dr. L. M. Desai	1. "કાવ્યગોષ્ઠિ" સત્ર, છોટાઉદેપુર, ડિસેમ્બર, ૧૯૮૦ 2. સાહિત્ય મિલન, ધાંગધરા, ફેબ્રુઆરી, ૧૯૮૧	1. કૃતિલક્ષી આસ્વાદ 2. છેલ્લા દાયકાના નાટકની ગતિવિધિ
(12)	Dr. S. J. Panchal	(1) The Absurd Theatre (2) ગુજરાતીનો અધ્યાપક સંઘ, વાર્ષિક સભા, ૨૯-૧૦-૧૯૮૦ (3) Arts and Science College, Ider 25-1-1981	Arts & Science College, Disa, 24-12-1980. 2. ગુજરાતી કવિતા અને સંક્રમણનો પ્રશ્ન 3. સ્વાતંત્ર્યોત્તર ગુજરાતી કવિતામાં સંક્રમણ
Hindi Department			
(15)	Dr. M. G. Gupta	(i) Gujarat State Premchand Centenary at Patan, Presided and delivered lecture (ii) Guru Nanak Dev University, Amritsar, Presided 4th Session and delivered the Lecture	પ્રેમચન્દ્ર કે સાહિત્ય કા સામાજિક મહત્ત્વ સુરદાસ-લિલા તત્ત્વ

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(16)	Dr. D. S. Shukla	Railway Staff College, Baroda	हिन्दी तथा अन्य भाषाओं का सम्बन्ध
(17)	Dr. P. K. Desai	Shri Krupal Sarvajanic High School, Eral Dist., Panchamahals History Department	प्रेमचन्द्र
(18)	Prof. V. K. Chavda	Gujarat Vidyapith, Ahmedabad	Hindi Swatantrya Sangram Vibhavana, and Philsufi
(19)	Dr. S. K. Desai	M.T.B. Arts College, Surat. A Seminar under COH. SH. P. Political Science Department	Changing Pattern of Historical Studies
(20)	Prof. A. P. Rana	(i) UGC University of Poona. Talk delivered under University Leadership Programme (ii) University of Rajasthan, Jaipur. Talk delivered under University Leadership Programme of UGC Sanskrit Department	" Indian Foreign Policy " " In study of India's Foreign Policy " : A Teacher's Perspective "
(21)	Professor S. G. Kantawala	Sanskrit Vidvat Sabha, Baroda Sanskrit Department, University of Rajasthan, Jaipur	(i) Agni in the Rgveda (in Sanskrit) (ii) Vedic Interpretation.
(22)	Shri S. M. Dave	(i) Sanskrit Vidvat Sabha, Baroda (ii) Principles of Suddavaita in the Poems of Dayaram (in Sanskrit) (iii) Baroda District Ranga Avadhoota Paritoshika, Sokhada	(i) Kavi Sammelan (Presented four poems) -Do- Beauties of Sanskrit Language.

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
		(iv) Symposium at Nareshwar	Contribution of Ranga Avadhoota to Sanskrit Literature.
		(v) Sanskara, Saurabha Padra	Importance of Sanskrit Language.
(23)	Smt. U. S. Deshpande	(i) Sanskrit Vidvat Sabha, Baroda (ii) Symposium at Nareshwar	Kavi Sammelan, (Presented three poems) रंगपत्र मंजूषामां व्यक्त यत् रंगव्यवहृतं लवनदर्शन.
(24)	Shri J. A. Jani	(i) Shri Amba Ashram, Malsar	अम्बा त्रिपुरानां स्वर्णो. A Play (Written by Dr. Hari-prasad Shastri and presented by J. A. Jani).

(e) Participation in Inservice Programme :

Name of the Teacher	Programme, Place and Date/s	Capacity in which participated
Archaeology Department		
(1) Professor R. N. Mehta (2) Professor K. T. M. Hegde (3) Dr. B. S. Suryavanshi (4) Dr. S. N. Chowdhary (5) Dr. (Smt.) D. R. Shah (6) Dr. V. S. Parekh (7) Dr. V. H. Sonawane (8) Dr. K. N. Momin	Training of Officers of Dept. of Archaeology, Govt. of Gujarat in this department from 17-4-1980 to 23-4-1980	Deputed Officers of Department of Archaeology, Government of Gujarat

English Department

(9) Dr. C. K. Seshadri	Short Term Institute in English, Baroda, May 4, 25-80	Director
(10) Dr. (Mrs.) R. V. Vanikar	"	Joint Director

Sr. No.	Name of the Teacher	Programme, Place and Date/s	Capacity in which participated
Economics Department			
(11)	Dr. R. H. Dhola- kia	Gujarat Economic Con- ference, Sardar Patel Institute, Ahmedabad November, 1980	Repporteur prepared the discussion Report on "Recent Develop- ments in Theories of Inflation"
Political Science Department			
(12)	Professor A. P. Rana	(i) Indo-Yugoslav Collo- quium on "Nonalign- ment" School of Inter- national Studies, Jawa- harlal Nehru University, New Delhi, May 14-15, 1980 (ii) UGC Visiting Fellow- ship Programme, Depart- ment of Political Science, Punjab University, Chandigarh, February, 16 to March 3, 1981.	Participant UGC Visiting Fellow
(f) <i>National Awards :</i>			
Economics Department			
(1)	Professor V. N. Kothari :	Appointed U.G.C. National Lecturer for the year 1980-81	
History Department			
(2)	Professor S. C. Misra	has been elected President of Indian History Congress at Bombay Session, 1980	
Political Science Department			
(3)	Professor A. P. Rana :	Appointed Director (for Gujarat Associated Centre) National Talent Search Examination of the National Council of Educational Research and Training (NCERT) for 1981	

Sr. No.	Name	Designations	Date of Visit
Archaeology Department			
(1)	Shri U. M. Chokshi	Chief Editor Gujarat Dist. Gazetter, Ahmedabad	20-4-1980

Sr.No.	Name	Designation	Date of the Visit
(2)	Dr. Thor	Kon-Tiri Museum Oslo (States)	29-11-1980
(3)	Mr. and Mrs. J. B. Armfrank	American Consulate General	3-12-1980
(4)	K. Tonomura Tomoko Janaka	Students from Japan	12-12-1980
English Department			
(5)	Prof. John Nor- tham, Bristol University, Bristol, U.K.	Visiting Tagore Professor	November '80 —January '81
Geography Department			
(6)	Prof. (Miss) Maria Rence Cura	Prof. of Geography, National Teachers Training Institute, Argentina (Financed by Indian Council of Cultural Relation, New Delhi)	2-12-1980 to 6-12-1980
History Department			
(7)	Mr. Bhanu Adha- waryu	Shri D.M.B.P. School, Bamba, noted Gujarati writer and edu- cationist	Two talks on "The changing face of rural society in Gujarat since last century, Sep- tember 29th, 30th, 1980
(8)	Mrs. Shastri	Maharashtra Archives, Bombay	Conducted a course in Transcribing Modhi documents, September 24th-27th, 1980
(9)	Mr. Pushkar Chadar Vaker	(i) Retired Anthropologist and Folklore Specialist	Two talks on History of Gujarat through folklore in the last cen- tury with special refer- ence to 1857 Revolution in North Gujarat, Dec. 8-9th, 1980
(10)	Professor V. D. Divekar	Reader in History, Gokhale Institute of Politics & Eco- nomics, Poona	Two talks on Trends in Regional Economy of Western India C. 1750 to 1850 A.D.

Sr. No.	Name	Designation	Date of the Visit
(11)	Professor J. S. Grewal	Head, Department of History Guru Nanak Dev University, Amritsar	Regional History
(12)	Dr. Indu Banga	Reader in History, G.N.D. University, Amareli	Some aspects of Agrarian Relation in Punjab during the 18th Century, December 30th, 1980; January 1st, 1981
(13)	Professor Weaver	Professor of Urban History Sanskrit Department	Trends of Historical writings in Canada
(14)	Shri A. V. Subramaniam	Chief Personnel Officer, Southern Railways, Madras Political Science Department	A talk on 'Some Aspects of Sanskrit Literature,
(15)	Shri Mohit Sen	CPI Leader	4 February, 1981
(16)	Mr. James T.L. Dandrige	Deputy Director, International Communication Agency of the United States, Bombay	December 1980

CHAPTER VIII—FACULTY OF SCIENCE

1. Courses of Studies

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

2. Number of Students

The number of men and women students on roll in the various classes in the year 1980-81 was as under :

Class	Men	Women	Total
(i) Diploma in Laboratory Technique			
1st Year	10	—	10
2nd Year	10	—	10
Total	20	—	20
(ii) F.Y.B.Sc.	432	214	646
(iii) S.Y.B.Sc.	314	169	483
(iv) T.Y.B.Sc.	350	168	518
Total	1,096	551	1,647
(v) M.Sc. (Previous)	142	96	238
(vi) M.Sc. (Final)	110	54	164
(vii) M.Sc. (Applied Geology)	16	—	16
Total	268	150	418
(viii) Ph.D.	45	20	65
Total	45	20	65
Grand Total	1,429	721	2,150

3. Staff

(a) Present Position :

The staff of the Faculty consisted of 18 Professors, 36 Readers, 138 Lecturers, 120 Class III and 82 Class IV Employees.

(b) New Appointments :

- (1) Dr. R. N. P. Sinha Professor of Geography
(2) Dr. (Smt.) U. V. Chudasama Lecturer in Chemistry

- (3) Dr. Rajnath Ramdev Ram Lecturer in Chemistry
 (4) Dr. (Smt.) Devi Surekha Ganesh Lecturer in Chemistry
 (5) Dr. B. V. Kamath Lecturer in Chemistry
 (6) Dr. Kaulgu N. N. Lecturer in Mathematics
 (7) Dr. M. Daniel Lecturer in Botany
 (8) Dr. (Smt.) K. A. Bhagwat Lecturer in Botany
 (9) Smt. Sheela Vidwans Lecturer in Statistics

(c) *Teachers upgraded to Higher Positions :*

- (1) Dr. (Smt.) R. Rajalakshmi Professor of Bio-Chemistry
 (Reader in Bio-Chemistry)
 (2) Dr. (Kum.) S. D. Telang Reader in Bio-Chemistry
 (Lecturer in Bio-Chemistry)
 (3) Dr. S. N. Padate Reader in Botany
 (Lecturer in Botany)

(d) *Teachers who left the University :*

- (1) Dr. P. K. Hiradhar Lecturer in Zoology Resigned
 (2) Dr. S. T. Patel Lecturer in Zoology Resigned

4. **Professional Growth of the Staff**

(a) *Published Articles/Papers :*

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
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Nutrition :

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| 1. | Sharma M. Swaminathan U. and Aiyer, M. | Effects of neonatal under nutrition on rat brain phosphoinositides | Ind. J. Biochem. Biophys. 17, 246, (1980). |
| 2. | Horrocks L. A. and Reddy T. S. | Effects of Prenatal undernutrition on phosphocholine and phosphoethanolamine transferase in rat brain | In Multidisciplinary, approach to brain development E. D. Benedattet al. Elsevier/North-Holland Biomedical Press, pp. 343-345 (1980). |
| 3. | Reddy T. S., Sharma M. and Horrocks L. A. | Effect of Cycloleucine on rat CNS lipids | Baroda J. Nut. 7, 21 (1980). |

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
4.	Telang S. D.	Effect of variations in the severity and duration of neonatal undernutrition on brain glutomate dehydrogenase and decarboylase in rat	Baroda J. Nut. 7, 27 (1980).
5.	Rajalakshmi R. and Dave J. R.	Effects of maternal deficiencies of calcium, vitamin A and protein during gestation on the composition of femur in the progeny at birth in the rat.	Baroda J. Nutr., 7, 42, (1980).
6.	Ramakrishnan C. V. and Gandhi, I. A.	Effects of maternal undernutrition on rat intestinal B—galactosidases and reversibility of the same by hormones.	Baroda J. Nutr., 7, 37, (1980).
7.	Bhandari, S. D.	Effects of phytate feeding with and without protein and vitamin D deficiencies on intestinal phytase activities in rat.	Ind. J. Biochem., Biophys., 17, 309,
8.	Bhandari, S. D., Chandrasekhar, R. and Rawal S.	Polyphosphoinositide metabolism in intestine of neonatally undernourished rats.	Nutr. Rep. Int., 21, 551, (1980).
<i>Plant Biochemistry :</i>			
9.	Parekh L. J., Saramma, K. K. and Ramakrishnan, C. V.	Studies on fruit tissues of <i>Citrus acids</i> cultivated in vitro.	Proceedings of symposium from function and structure in plants. Part I. Today and Tomorrows Printers and Publishers, New Delhi, pp. 13-27, (1980).
10.	Naik, B. I. Sharma, V. and Srivastava, S. K.	Interaction between plant growth regulator and polyamine effects on membrane permeability.	Phytochemistry 19, 1221, (1980).

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
11.	Rajalakshmi, R.	(i) Gestation and lactation performance in relation to the plane of maternal nutrition	In : maternal Nutrition during pregnancy and lactation Ed. H. Asbi and R. Whitehead. Hang Humber Publishers, Bern, Switzerland. pp. 184-202 (1980)
		(ii) Some naive questions and thoughts on vitamin D and relatives	Wld. Rev. Nutr. its Diet. 34, 102-132 (1980).
<i>Botany :</i>			
12.	A. R. Mehta	(i) Synthesis of Phenolics in <i>Arachis hypogaea</i> L. Cell Suspensions	Ind. J. Expt. Biol. Vol. 18, Dec. 1980.
		(ii) Enzymes related to Phenolic compounds in <i>Crotolaria juncea</i> L. Tissues cultured <i>in vitro</i>	Ind. J. Expt. Biol. Vol. 8, Mar. 1980, pp. 225-227.
		(iii) Physiological Aspects of organ differentiation <i>in vitro</i>	Proc. of National Symposium on Plant Culture. Tissue Culture Genetic manipulation and Somatic hybridization of plant cell BARC, Bombay, 1980, pp. 100-119.
		(iv) Regulation of nicotine biogenesis : Enzymatic studies during the development and growth of tobacco callus	The Proc. National Symposium on Plant Culture. —do— p. 342.

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
13.	S. D. Sabnis, M. D. Daniel, G. P. Senan	A Phytochemical Survey of the Plants of the Forest of Gujarat for Alkaloids, Saponins and Tannins.	Indian Journal of Forestry Sept. 1980.
<i>Chemistry :</i>			
14.	Suresh Sethna and J. H. Pardani	Synthesis of some furan derivatives from α and γ pyrone.	J. Institution of Chemistry, 52, 61, (1980).
15.	Suresh Sethna and P. Gawande	Bromination of some alkyl compounds with N-Bromosuccinimide	J. Institute of Chemistry, 52, 130, (1980).
16.	Suresh Sethna and J. H. Pardani	Studies on Chromones and Flavones Part-XXI	J. Institute of Chemistry, 52, 229, 1980
17.	K. N. Trivedi and R. J. Patolia	(i) Studies in the synthesis of Furochromones Part-VII (ii) A novel thermal dimerisation reaction of 2-hydroxy chromone derivatives (iii) Studies in the synthesis of furochromes Part-V	J. Ind. Chem. Soc. 57, 532 (1980). Chemistry and Industry, 792, J. Ind. Chem. Soc. 5, 6, (1981).
18.	K. N. Trivedi and P. V. Thakore	Studies in the synthesis of quinoline derivatives Part-IX.	
19.	K. N. Trivedi and R. R. Shah	Studies in the synthesis of 4-hydroxy coumarins Part-V	Asian J. Pharm. Sci. 2, 45, (1980).
20.	K. N. Trivedi and K. P. Sanghvi	Studies in the synthesis of anaxthone derivatives. Part-II.	J. Ind. Chem. Soc., 57, 1011, (1980).
21.	P. K. Bhattacharya and J. D. Joshi	Mixed ligand complexes of Ni (II) with INDA as primary ligand and TGA, and TLA and TMA and corresponding amino acids as secondary ligands	J. Ind. Chem. Soc., 57, 336, (1980).

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
22.	P. K. Bhattacharya	(i) Ring size effect on Cu (II) complexes of cyclic tetraamines (ii) Study of Cu (II) complexes of saturated cyclic tetraamines	Ind. J. Chem., 57, 336, (1980). J. Inorg. Nucl. Che., 43, 41, (1981).
23.	P. K. Bhattacharya B. A. Jani and R. K. Kohli	Study of some new mixed schiff base complex of Cu (II) and Ni (II) containing fused ring systems	J. Ind. Chem. Soc., 58, 18, (1981).
24.	P. K. Bhattacharya K. Gopalakrishnan	Studies in some ternary complexes of Cu (II) involving II bonding ligands	J. Chem. Soc., Dalton Transactions, 2, 543, (1981).
25.	P. K. Bhattacharya, Rakesh Kohli and K. Gopalakrishnan	Studies of II interaction in metal schiff base complexes	J. Inorg. Worl. Chem., 43, 331, (1981).
26.	J. S. Dave, G. Kurian and N. R. Patel	Effect of terminal substitution on liquid crystallinity of some schiff base esters	Ind. J. Chem., 19A, 116, (1980).
27.	S. L. Bafna, N. B. Patel, M. C. Desai and S. S. Kazi	Molecular sorption of ion exchange resins of aliphatic mono and dicarboxylic acid	Journal of Chromatography 20, 131, (1980).
28.	R. N. Kapadia and A. K. Dalal	(i) Preparation and absorption properties of phenol acetaldhyde tupe chelating ion exchange resins (ii) Synthesis and properties of some pheno-furfural tupe of cation exchange resins	Indian J. of Technology, 18, 430, (1980). Indian Journal of Technology, 19,
29.	R. N. Kapadia and M. V. Vyas	Synthesis and physico-chemical studies of some new amphoteric ion exchangers	Indian Journal of Technology, 18,

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
<i>Geology :</i>			
30.	S. S. Merh, D. R. Kansakar, T. Sharma, B. N. Upreti and N. M. Vashi	Terraced plains of Central Nepal Midlands, Typical examples of Neotectonic land forms	Himalayan Landscape and Geomorphology Vol. University of Delhi, 1981.
31.	S. S. Merh, Y. K. Agrawal, M. P. Patel and S. J. Desai	A rapid method of Microgram Analysis of Titanium from Rocks	Chemical Geology, 1980, pp. 167-170.
32.	D. R. Gadekar	(i) Some aspects of diagenesis of Broach Group of Tertiary sediments around Jhagadia, Dist. Baroda (ii) Petrography of Tertiary Rocks around Jhagadia, Dist. Gujarat and its significance in the inference of provenance	Jl. Geol. Soci. of India, Bangalore, Vol 21 (a), pp. 440-445, 1980. Jl. of India Asso. of Sedimentologists, Aligarh, Vol. 2, 1980.
33.	D. M. Shringarpure and A. N. Shah	Microcodium algal remains from the upper Tal Limestone of Phulchatti area Pauri Garhawal Himalaya	Current Science Vol. 50, No. 3, 1981.
34.	A. N. Shah, B. M. Pradhan, M. P. Sharma and Ranbha Chitrakar	Mineralization associated with Palung granite massif	IGCP—Project No. 26 (Nepal National) Committee for UNESCO. His Majesty Govt. of Nepal, Dec., 1980.
35.	P. P. Patel	Polished Granite as ornamental stone in building Industries	Proc. Sem. Mineral Resource of Gujarat and its exploitation, Ahmedabad, Oct. 1980, pp. 111-113.

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
<i>Mathematics</i>			
36.	J. R. Patadia and V. M. Shah	On the absolute convergence of lacunary Fourier series	Journal of Indian Mathematical Society, 44, (1980).
37.	N. N. Kaulgud	Feedback discretise pour un probleme de controle en temps optimal	RAIRO Control Systems, 14, (1980).
<i>Microbiology :</i>			
38.	Ketan Shah, S. Rao, Nair B. and Modi V. V.	Modification of antifungal activity of Econazole in presence of Betamethazone	Ind. J. Med. Res., 73, 965, (1981).
39.	N. S. Govind and V. V. Modi	Regulation of trisporic acid synthesis in <i>B. trispora</i>	Ind. J. Expt. Biol., 19, 544.
40.	Nautiyal C. S. and Modi V. V.	(i) Regulation of Glutamine synthetase I from <i>R. meliloti</i> (ii) The regulation of some enzymes involved in ammonia assimilation	Current Micro-Biology 5, 329, (1981). Experientia 37, 121, (1981).
41.	Satya Dandekar, V. V. Modi and U. K. Jani	Chemical regulators of carotenogenesis by <i>B. Trispora</i>	Phytochem. 19, 795, (1980).
42.	Gopa Majmudar and Modi V. V.	Spoilage of Mango by <i>Aspergillus flavus</i>	Curr. Sci., 49, 821, (1980).
43.	H. B. Mehta and Modi V. V.	The Effect of phosphate of flavinogenesis in <i>E. ashlvii</i>	Eur. J. Appl. Microbiol and Biotech. A1, 131, (1981).
44.	Gill P. P. and Modi V. V.	Induction of extracellular proteases by eggwhite in <i>Asp nidulans</i>	Folia Microbiologica 26, 78, (1981).
45.	H. B. Mehta and V. V. Modi	Regulation of flavin levels by phosphate in flavinogenic <i>E. ashbvii</i>	Biochem. International 2, 181, (1981).

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
46.	Dholakia J. N. and H. S. Chhatpar	Control of some Fungi capable of degrading cellulose and also water based poster colours	Int. Biodet. Bull. 16, 17, (1980).
47.	Renu Massand and H. S. Chhatpar	Biochemical changes in the spoilage of apple by <i>Aspergillus niger</i>	J. Food Sci. and Tech. 17, 368, (1981).
48.	Mrudula Shinde and H. S. Chhatpar	Effect of cycloheximide on isocitrate lyase in <i>N. crassa</i>	Curr. Sci. 50, 368, (1981).
49.	J. K. Buch and P. J. Dave	(i) Influence of aflatoxin on nacteriocinogenic strain of <i>serratia maroescons</i> (ii) Induction of lysis in lysogenic bacteria by liver microsomal metabolites of aflatoxin B.	Current Microbiology, 4(5), 1980. Indian J. Expt. Biol. 18, 1162-1164, Oct. 1980.
50.	K. A. Patel and P. J. Dave	Kappa phage adsorption on thiamine induced pigmented cells of pigmentless <i>serratia marcescens</i> strain 9-3-3	Current Science 49 (23) 912-913, 1980.
51.	K. A. Patel, I. R. Patel, A. M. Mehta and P. J. Dave	Effect of polymixin B on adsorption of Kappa phage on <i>serratia marcescens</i>	Ind. J. Expt. Biol. 18(11), 1353-1354, 1980.
<i>Physics :</i>			
52.	A. B. Darji, S. P. Vaidya	New band syst. of Indium Indide molecule in the region 3490-3604	Current Science Vol. 49, No. 9, May 5, 1980.
53.	A. B. Darji, and N. R. Shah	New spectrum of NiCl molecule in the near ultraviolet region	Indian J. of Pure and Appl. Phys. Vol. 18, Oct. 1980.
54.	H. S. Desai and K. N. Joshipura	Glauber approximation in Nuclei excited feschbch Resonance	Ind. Jour. of Pure and Appl. Phys. 18, 615, (1980).

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
55.	G. R. Pandya and D. D. Vyas	Crystallization of Glycine sulfate	J. Cryst. Growth 50 (1980), 870.
56.	V. P. Bhatt G. R. Pandya and A. R. Vyas	(i) Study of solid-liquid interface of Bismuth Antimony Alloy single cryst (ii) Role of complexing agents on the teaching characteristics of Bi-Sb alloys crystals	Ind. J. Pure and Appl. Phys. 1d8Vol.1 (1980). J. Cryst. Growth, 48, (1980), 483.
57.	V. P. Bhatt and S. B. Trivedi	Etching of Se-Te crystals	J. of Cryst. Growth, 49, (1980), 743-45.
58.	V. P. Bhatt and C. F. Desai	Deformation mole of In single crystals under dynamic indentation	Acta. Metallurgica 28, (1980), 932-938.
59.	V. P. Bhatt and M. D. Trivedi	Shape of thermal etch pits and crystal structure in tellurium crystals	Kristall. Und. Technik, 15, (1980), 109-114.
60.	N. L. Kekani	(i) Thermoluminescence of NaCl: Sr. crystals (ii) Thermoluminescence of X-irradiation NaCl: Sr. crystals (iii) Effect of activator content on the TL of pre-treated NaCl: Sr.	Radiation Effects Letters 57, 73 (1980). Radiation effects Letters, 57, 135 (1980). Radiation Effects Letters, 57 135 (1980).
61.	V. K. B. Kota, S. P. Pandya and V. Potbhare	Comparative study of effective interaction via correlations with quadrupole and pairing operators	Nuclear Physics A280 (1980) 397.
62.	V. K. Kota and V. Potabhare	(i) Low energy level spacing distribution in the atomic table ensemble (ii) Shape of eigenvalue distribution for bosons in scalar space	Physics Letters 80 A (1980) 14. Physical Review C 21 (1980), 2637.

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
<i>Statistics:</i>			
63.	M. Sreehari	On the attraction of convolutions to extreme distributions	Proceeding of Second ISTRA conference, 1980, Ses. 5, pp. 1-3.
64.	M. M. Gandotra	Compulsory Sterilisation An Impact of 1976, Population Policy	Proceedings of the Seminar on Tools and Targets on Population Control Programme organised by Baroda Medical Union, Baroda, March, 1981
65.	Narayan Das	Interrelationship Between Population Growth and Development in India	Journal of Family Welfare Vol. XXVI, No. 4, June, 1980.
<i>Zoology</i>			
66.	Menon G. K., Shah R. V. and Jani N. B.	(i) Observations in integumentary modifications and feathering on head and neck of the saras crane, <i>Grus antigone</i> (ii) Tyroxine induced refeathering of the incubation patch in House crow	Pavo Vol. 18, No. 2, 1-2, 1980. Pavo Vol. 18 Nos. 1-2, 1980.
67.	Panicker R. G. and Shah R. V.	(i) Studies on avian gizzard VIII Histochemical demonstration of lactate, succinate and malate dehydrogenases in the developing pigeon gizzard (ii) Studies on avian gizzard IX. Histochemical demonstrations of glucose-	Pavo Vol. 18, Nos. 1-2, 1980. Pavo Vol. 18, Nos. 1-2, 1980.

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
		6-phosphate, OC-glycero-phosphate and B-hydroxy butyrate dehydrogenases in the developing pigeon gizzard	
<i>Animal Physiology:</i>			
68.	Iyengar S. and Pilo B.	Some metabolic effects glucose load in different areas of the avian brain	J. Biol. Sci. Vol. 21, p. 713-715, 1980.
69.	Pilo B.	(i) Changes in sodium, potassium and water contents of the liver of the migratory starling <i>Sturnus roseus</i> , during pre-and post-migratory periods (ii) Calcium and phosphorus contents of the liver of migratory starling, <i>Sturnus roseus</i> , during pre-and post-migratory periods	Pavo Vol. 18, No. 1-2, 1980. Pavo Vol. 18, Nos. 1-2, 1980.
<i>Developmental Physiology</i>			
70.	Asnani M. V., Kishnani K. T., Kathuria P. D., Pilo B. and Shah R. V.	(i) Wound healing and repair in the liver of alloxan diabetic rats. 6. The activities of certain dehydrogenases during wound healing (ii) Wound healing and repair in the skin of alloxan diabetic rats. 6. Histochemical studies on lipids, lipase and esterase in the healing wounds of diabetic and non-diabetic rat skin	J. Anim. Morph. Physiol., Vol. 27, Nos. 1-2, pp. 78-83, 1980. J. Anim. Morph. Physiol. Vol. 27, Nos. 1-2, pp. 107-112, 1980.

Sr. No.	Name/s Subject	Title	Name of the journal wherein published with month of publication
71.	Shah R. V., Kinariwala R. V. and Ramchandran A. V.	(i) Vitamin C in regeneration: a quantitative evaluation of the changes in the hepatic and renewed ascorbic acid contents during tail regeneration in the scincid lizard, <i>Mabuva carinata</i> (ii) Preliminary observations on endocrine pancreas during tail regeneration in the scincid lizard, <i>Mabuva carinata</i> (iii) Haematopoiesis and regeneration: Changes in the cellular elements of blood and haemoglobin during tail regeneration in the scincid lizard. <i>Mabuva carinata</i> (Boulenger) (iv) Histoenzymology of the regenerating lacertilian tail: Hexo- and glucokinases activity in the scincid lizard <i>Mabuva carinata</i>	J. Anim. Morphol. Physical Vol. 27, Nos. 1-2, pp. 194-200, 1980. J. Anim. Morphol. Physiol. Vol. 2 Nos. 1-2, 1980. Mon. Zool. Italiano Vol. 14, No. 3, pp. 137-150, 1980. Cell. and Mole. Biol. Vol. 26, pp. 43-47, 1980.
72.	Thomas Varughese, Hiradhar P. K. and Shah R. V.	Levels of acid and alkaline phosphatases in the regenerating tail in the normal and hyperphsectomised house lizards <i>Hemidactylus flaviviridis</i>	J. Anim. Morphol. Physiol. Vol. 27, No. 27, pp. 244-254, 1980.
<i>Reproductive Physiology</i>			
73.	Ambadkar P. M. and Vyas D. M.	In vitro characterization of adrenergic receptors mediating extrusion of preformed sebum from preputial gland of rat	Experientia Vol. 36, pp. 307-308, 1980.

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
74.	Ambadkar P. M. and Gangaramani N. F.	A preliminary study on the immediate influence of castration on certain functions of hepatic tissue	J. Anim. Morphol. Physiol. Vol. 27, No. 1-2, 1980.
75.	Ambadkar P. M. and Chauhan B. C.	(i) Observations on influence of pinealectomy on certain aspects of testicular functions in the Indian House crow <i>Corvus splendens</i> (ii) Histometric observations adrenal glands of Indian House crow, <i>Corvus splendens</i> , with reference to annual variations in cortical (interrenal) tissue and its possible zonation	Pavo Vol. 18, Nos. 1-2, 1980. Pavo Vol. 18, Nos. 1-2, 1980.

(b) Published Books and Brochures

Sr. No.	Name of the Author/s	Name of the Book	Name of the publisher
<i>Biochemistry</i>			
1.	Rajalakshmi R.	Applied Nutrition 3rd edition	Oxford and IBH publishing Co., New Delhi
<i>Mathematics</i>			
2.	V. M. Shah	Introductory Calculus (Revised Third Edition)	Acharya Book Depot, Baroda.

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

Sr. No.	Name of the Subject	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
<i>Bio-Chemistry :</i>			
1.	Rajalakshmi R. & Ramakrishnan C. V.	Int. Cong. of Dietetics, Brazil, August, 1980	Malnutrition and fetal development
2.	Rajalakshmi R. Telang S. D. & Ramakrishnan C. V.	Conference on 'Anthropology of food and nutrition: Bad Humburg, G.D.R., October, 1980.	The Nutritional scene in Jamabudweepam (Asia)
3.	Ramakrishnan C. V.	Meeting of Neuroscience Society of India; Hyderabad, December, 10-12, 1980.	Nutrition and Lipids of CNS
4.	Rajalakshmi R.	Meeting of Neuroscience Society of India; Hyderabad, December, 10-12, 1980.	Nutritions and Brain Function
5.	Telang S. D. Khandke K. and Ramakrishnan C. V.	Meeting of Neuroscience Society of India; Hyderabad, December, 10-12, 1980.	Effects of neonatal undernutrition on the development of isozymes of GDH in rat brain.
6.	Telang S. D. Bhawe S. V.	Meeting of Neuroscience Society of India; Hyderabad, December, 10-12, 1980.	Effects of postweaning-malnutrition on norepinephrine turnover in different regions of the rat brain.
7.	Reddy T. S. and Ramkrishnan C. V.	Meeting of Neuroscience Society of India; Hyderabad, December 10-12, 1980.	Effects of neonatal undernutritional and subsequent postweaning rehabilitation of rat brain gray and white matter lipids.
8.	Bhandari S. D.	Meeting of Society of Biol. Chemists of India Bangalore; December, 14-18, 1980.	Effects of nutritional deficiencies during neonatal and postweaning period of rat intestinal enzyme activities.
9.	Aiyer M. and Bhandari S. D.	Meeting of Society of Biol. Chemists of India Bangalore; December, 14-18, 1980.	Effects of neonatal undernutritional on the activity of intestinal brush border enzymes in rat.

Sr. No.	Name of the Subject	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
10.	Reddy T. S. Ramakrishnan C. V.	Meeting of Society of Biol. Chemists of India Bangalore; December, 14-18, 1980.	Lipid composition of rat brain gray and white matter with regard to age and undernutrition.
11.	Ramchand C. N. Parekh L. J. and Ramakrishnan C. V.	Meeting of Society of Biol. Chemists of India Bangalore; December, 14-18, 1980.	Studies on neorotoxin from <i>L. Sativus</i> .
<i>Botany :</i>			
12.	A. R. Mehta	At Lucknow Conference of the Ind. Bot. Soc. 1980.	Production of Phenolics in <i>Aerostichun aursum</i> L. during growth in Vitro.
13.	C. H. Pathak	Indian Science Congress Session at Varanasi, Jan. '81	Organised seminars papers reading at Sci. Congress
<i>Chemistry :</i>			
14.	K. N. Trivedi	Annual convention of Chemists I.I.T., Bombay, Dec., 1980.	Synthesis of psoralene derivative.
15.	P. K. Bhattacharya	(i) Diamond Jubilee symposia on modern trends in coordination chemistry, Bombay, Oct., 1980. (ii) Seminar on recent trends in metal org. Chem. Jaipur, March, 81.	1. Studies in some binuclear Cu (II) Complexes. 2. Study of the effect of the two ligands on ternary complex stability. 3. Study of II intraction and reactivity of some mixed ligand complexes. Study of binuclear Cu (II) complexes with nonequivalent metal centres.
16.	A. C. Shah	Annual convention of Chemists I.I.T., Bombay, Dec., 1980.	Photochemical and thermal transformation of 5-Benzoyl-O-alkyl xanthates.

Sr. No.	Name of the Subject	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
17.	S. M. Desai	Annual Convention of Chemists, I.I.T., Bombay, Dec., 1980.	Synthesis of Furo-Coumarins.
18.	Smt. Surekha Devi	Polymer Science Symposia, Vidyanagar, Feb., 1981 Symposium at B.A.R.C. March, 1981.	Study of prematures gelation in U.V. Light Curable Inks. Trace determination of Cu and Co in refractory oxides.
<i>Geography :</i>			
19.	Smt. V. C. Rangaswamy and J. P. Vyas	II National Cartography Conference at Pune from 12th Dec., 1980. Sponsored by INCA, New Delhi, Survey of India, Dehradun and University of Pune and others.	Maps as Tools of Analysis and Communication.
20.	S. M. H. Rizvi	Symposium on "Urban and Regional Development" at the Department of Geography, University of Bombay, Bombay from 12th Feb., 1981 to 21st Feb., 1981.	Pattern of Sessional migration—A case study of tribal area.
<i>Mathematics :</i>			
21.	J. P. Singhal	46th Annual Conference of Indian Mathematical Society held at Bangalore in Dec., 1980.	Products of several generalised Laguerre polynomials.
22.	V. D. Pathak	46th Annual Conference of Indian Mathematical Society (0, 1). held at Bangalore in Dec., 1980.	On Closed ideals $C^{(n)}$
<i>Microbiology :</i>			
23.	Mrudula Shinde and H. S. Chhatpar	Second FACB & Golden Jubilee Annual Meeting of Society of Biological Chemists, 115, Bangalore, Dec., 14-18, 1980.	Paradoxical effects of cycloheximide.

Sr. No.	Name of the Teacher/s	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
24.	Baxi M. P., Buch J. K. and Dave P. J.	Second FACB & Golden Jubilee Annual Meeting of Society of Biological Chemists, 115, Bangalore, Dec., 14-18, 1980.	Degradation of aflatoxin by Whey.
25.	Shilpa-Malik, R. N. Chakraborty and Dave P. J.	Second FACB & Golden Jubilee Annual Meeting of Society of Biological Chemists, 115, Bangalore, Dec., 14-18, 1980.	Role of alkaline phosphates in prodigiosin biosynthesis.
26.	Mehta A. and Dave P. J.	Second FACB and Golden Jubilee Annual Meeting of Society of Biological Chemists, 115, Bangalore, Dec. 14-18, 1980	(i) Isolation of an antimicrobial substance from <i>Lactobacillus sporogens</i> . (ii) Inhibition of curd contaminants by an inhibitory protein isolated from <i>Lactobacillus acidophilus</i> .
27.	Trivedi J. N., Shilpa Malik and Dave P. J.	—do—	Purification and partial characterization of a bacteriocin from <i>Serratia marcescens</i> .
28.	Brahmbhatt, H. N Shilpa Malik and Dave P. J.	—do—	Mutagenesis and mapping of <i>Serratia</i>
29.	Buch J. K. and Dave P. J.	—do—	A sensitive test for the detection of aflatoxins.
30.	Smita Kapila, Ram Sharma P., Rao N. N., Modi, V. V., Rekha Ekbote and Shah, M. N.	National Symposium on Application of nuclear and allied techniques in public health and pollution control, BARC, Bombay Feb., 12-13, 1981.	Some aspects of radiation hygienisation of sewage sludge.

Sr. No.	Name of the Teacher/s	Name, Place and Dates of the Conference/Seminar	Title of the paper presented
31.	Ram Sharma P., Smita Kapila, Rao N. N. and Modi V. V.	National Symposium on Application of nuclear and allied techniques in public health and pollution control, BARC, Physics : Bombay, Feb., 12-13, 1981.	Radio sensitisation of selected bacterial strains by chemicals
32.	A. B. Darji	(i) 9th All India Symposium on Optics, Dec. 29 to 31 1980 at Madurai (ii) 68th Indian Science Congress at Varanasi, Jan. 1981	(i) Rotational analysis of NiCl molecules. (ii) New band system of NiCl molecule in red region.
33.	N. R. Shah	(i) —do— (ii) —do—	(i) New band system of Nickel chloride (ii) New band system of Ni Brmolecule in near ultraviolet region.
34.	P. M. Shah	(i) —do— (ii) —do—	(i) Spectrum of Cobalt Chloride. (ii) New system of cod molecule in the ultraviolet region.
35.	N. L. Kekan	(i) Paper presented in the Conference at Hyderabad, 12th NCC, 1981. (ii) —do— (iii) —do— (iv) —do— (v) —do— Calcutta, 1980	(i) Centres associated with 410 K in NaCl : Br. (ii) Centres responsible for 340 K and 380 K glow peak in NaCl : Sr. (iii) Centres correlation with 340 K glow peak in NaCl : Sr. (iv) Correlated studies of TL and Z1 centres in X-irradiated NaCl : Sr, crystals (v) Effect of activator content on the TL of pretreated NaCl : Sr

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
		(vi) —do— Hyderabad, 1981	(vi) Dependence of KBr: Tl Thermoluminescence on TL concentration.
<i>Statistics :</i>			
36.	M. Sreehari	(i) Second Conference of the Indian Society for Theory of Probability and its Applications, I.I.T., Powai, Bombay, 2-4 Dec., 1980	(i) On the attraction on convolutions to extreme distributions.
		(ii) Conference on Mathematical Statistics and Probability in Honour of Prof. C. R. Rao, ISI., Delhi Centre, Delhi, 8-13 Dec., 1980	(ii) On the rate of convergence in the in-Variance principle for random partial sums.
		(iii) 9th Annual Conference of Gujarat Statistical Association, Bhavnagar, 26-28 Dec., 1980	(iii) On some probability distributions.
37.	M. M. Gandotra	(i) Seminar on Family Planning for the Weaker Section of the Rural and Urban Poor, Organised jointly by the Indian Institute for Public Administration and Indian Council of Medical Research, New Delhi, August 1, 1980.	(i) Gaps in the Knowledge and Use of Family Planning among the Urban Poor.
		(ii) Regional Conference on Physician and Population change B. J. Medical College, Ahmedabad, Nov. 28-29, 1980.	(ii) The Role of Social Scientist in Teaching of Population Dynamics.

Sr. No.	Name of the Teacher	Name, Place, and Dates of the Conference/Seminar	Title of the paper presented
38.	M. M. Gandotra and Narayan Rao	(i) The IASP Conference on Population Distribution and Development ISI, Calcutta, 29-31 Dec., 1980. (ii) National Seminar on Golden Jubilee of Family Welfare in Karnataka, Organised by Population Research Centre, Bangalore, March 24-28, 1981.	(i) Changes in Infant Mortality and its causes. (ii) Some Determinants of Family Planning Acceptance.
39.	Narayan Das and Divya Pandey	The IASP Conference Population Distribution and Development ISA, Calcutta, 29-31 December, 1980.	Fertility Differentials by Religion in India—An Analysis of 1971 Census Fertility Data.
<i>Zoology :</i>			
40.	R. V. Shah, J. G. Menon and P. K. Hiradhar	Vth All India Symposium on "Comparative Animal Physiology" from 16-19 June, 1980 at the Dept. of Zoology, University of Poona.	Seasonal variations in Ascorbic Acid content of Gonads in the Gekkonid Lizard. <i>Hemidactylus flaviviridis</i> .
41.	R. V. Shah, Thomas Varughese and P. K. Hiradhar	—do—	Effect of Hypophysectomy on Lactate Dehydrogenase Activity during Tail Regeneration in Gekkonid Lizard, <i>Hemidactylus flaviviridis</i> .
42.	M. V. Asnani, B. Pilo, P. D. Kathuria, K. T. Kishnani, and R. V. Shah	Vth All India Symposium on "Comparative Animal Physiology" from 16-19 June, 1980 at the Department of Zoology, University of Poona	Oxidative Metabolism in the Healing Wounds of Diabetic and non-diabetic Rat Skin.
43.	R. V. Shah, M.S. Swamy and A. V. Ramchandran	—do—	Changes in the activity of cyclic AMP dependent Phosphodiesterase during tail regeneration in the Scincid Lizard, <i>Maibua carinata</i> .

(d) Talks given at different Universities/Institutions :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
<i>Biochemistry :</i>			
1.	Prof. C. V. Ramakrishnan	(i) Div. of Basic Sciences Psychiatric Res. Inst. Univ. Hospital Univ. of Saskatchewan Saskatoon, Canada (ii) Dept. of Physiological Chem., Ohio University Columbus, Ohio, U.S.A. (iii) Dept. of Biochem. Meharry Med. College, Nashville, U.S.A. (iv) University of Texas Medical School, Houston, Texas, U.S.A. (v) Dept. of Human Development, Houston University, Houston, Texas, U.S.A.	(i) Nutrition and Brain Development (ii) Nutritional stress and lipid metabolism in the rat brain. (iii) Effect of nutritional stress on lipid metabolism in the rat brain. (iv) Effect of nutritional deficiencies on brain biochemistry with special reference to GABA and lipid metabolism. (v) Effect of under-nutrition on human development on special reference to brain development.
2.	Prof. R. Rajalakshmi	(i) Medical College, Madurai (ii) University of Houston, Texas, U.S.A. (iii) Dept. of Nutritional Sciences, Guelph University, Guelph, Canada	(i) Nutritional problems in pregnancy and lactation. (ii) Fetal and neonatal development in relation to maternal nutritional status. (iii) Pattern prevalence and prevention of malnutrition in India.

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
3.	Dr. L. J. Parekh	(i) Martin Luther University Halle, GDR (ii) Central Inst. of Nutr. Postdam, G.D.R.	(i) Organic acid metabolism. (ii) Indian Fermented Foods.

Chemistry

4.	Prof. P. K. Bhattacharya	(i) Vikram Univ., Ujjain, July, 1980 (ii) Institute of Science, Bombay, October, 1980 (iii) Marathawada University, Aurangabad, January, 1981.	(i) Ring size effects on macrocyclic ligand complexes. (ii) Ternary complexes as models for metalloenzymes. (iii) Metal directed reactions on the coordinated ligands.
5.	Dr. A. C. Shah	U.G.C. Summer Institute in Instrumental methods of analysis at S. V. Regional Engg. College, Surat, May-June, 1980.	A series of twelve lectures on Spectroscopy.

Microbiology

6.	Prof. V. V. Modi	(i) Hollycross College, Tiruchirapalli (3-11-1980) (ii) Coimbatore Agri. University (4-11-1980) (iii) Home Science College, Coimbatore (iv) Sri Venkateswara University, Tiruchirapalli (17-11-1980 and 18-11-11-1980)	(i) Genes and Proteins. (ii) Genes and Proteins. (iii) Genes and Proteins. (iv) 1. Microbial genetics and Microbiology. 2. Genes and Proteins. 3. Ripening of Fruits—some problems.
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Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
<i>Geology</i>			
7.	G. T. Malpathak	Workshop on Rock Mechanics organised by Gujarat Engg. Research Institute and Faculty of Tech. and Engg., Baroda (15-6-1980)	Two lectures Structural Geology in Engineering practice.
8.	P. P. Patel	Workshop on Rock Mechanics organised by Gujarat Engg. Research Institute and Faculty of Tech. and Engg., (15-6-1980)	Two lectures on Engineering Classification of Rocks.
<i>Statistics</i>			
9.	M. Sreehari	Department of Statistics, South Gujarat University, Surat.	Limit theorems in Probability.

(c) Participation in Inservice Programme :

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
<i>Geology :</i>			
1.	S. S. Merh	U.G.C.-COSIP-ULP Workshop-cum-Training Programmes 28-11-80 to 2-12-80.	Director
2.	G. T. Malpathak	—do—	Convener.
3.	D. R. Gadekar	(i) Planning Atlas of Gujarat, Govt. of Gujarat, India (ii) Vishwa Kosha, Govt. of Maharashtra (iii) Scientific Everest Alert, New Work Institution, Washington.	(i) Member Expert Committee. (ii) Editor, Contributor (iii) Correspondent.

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
4.	G. T. Malpathak	Committee to work for Post-B.Sc. Diploma Course in Mining Geology.	Convener
5.	D. T. Brahmhatt	—do—	Member
6.	P. P. Patel	(i) —do— (ii) Workshop on 'Rock Mechanics' organised by Gujarat Engineering Research Institute, Dept. of Irrigation, Govt. of Gujarat and Applied Mech. Dept., M. S. University of Baroda. June 16-28, 1980, Baroda. (iii) Seminar on Mineral Resources of Gujarat and its Exploitation, Guj. Min. Ser. Gaz. Officer Asso. and G.M.D.C. Officer Asso., October 14-15, 1980, Ahmedabad.	Member Participant Participant

Statistics :

7.	M. M. Gandotra	Joint Workshop of ICMR and WHO on Psycho-social Research in Family Planning, Feb. 19-29, 1981.	Participant
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Mathematics :

8.	Prof. V. M. Shah	Organised a symposium on "Periodicity" on 3-11-1980 during 17th Annual Conference of Gujarat Ganit Mandal held at Shri M. B. Patel Science College, Anand (S. P. University)	Participant
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Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
9.	Shri V. D. Pathak	Organised a symposium on "Periodicity" on 3-11-1980 during 17th Annual Conference of Gujarat Ganit Mandal held at Shri M. B. Patel Science College, Anand (S. P. University)	Participant
10.	Shri N. V. Patel	—do—	Participant
11.	Dr. J. R. Patadia	—do—	Participant
12.	Shri M. B. Patel	—do—	Participant

(f) National Awards :

Name of the Teacher	Description of the Award
<i>Mathematics :</i>	
1. Prof. V. M. Shah	Elected as a Fellow of the National Academy of Sciences, India.
<i>Microbiology :</i>	
2. Prof. V. V. Modi	Selected as a U.G.C. National Lecturer.

5. Visitors

Sr. No.	Name	Designation	Date/s of the Visit
<i>Bio-Chemistry :</i>			
1.	Prof. A. V. Juorio	Professor & Chief, Basic Science Div., Psych. Res. Div., Univ. Hospital, Saskatoon, Canada.	Nov. 30, 1980 to Dec. 27, 1980.
2.	Prof. L. A. Horrocks	Professor, Dept. of Physiol. Chem., Ohio State University, Columbus, Ohio, U.S.A.	Dec. 1, 1980 to Jan. 30, 1981.

Sr. No.	Name	Designation	Date/s of the Visit
3.	Prof. A. K. Bose	Professor, Calcutta	Feb. 8, 1981.
<i>Geography :</i>			
4.	Prof.(Miss) Maria Rence Cura	Prof. of Geography, National Teacher Training Institute, Argentina. (Financed by Indian Council of Cultural Relation, New Delhi).	2-12-80 to 6-12-80
<i>Microbiology :</i>			
5.	Dr. J. V. Bhatt	Kasturba Medical College, Manipal, Mangalore.	17-9-80 and 7-10-80
6.	Dr. A. K. Mattoo	Weissmann Institute, Israel	4-10-1980
7.	Dr. Suresh Tate	Department of Biochemistry, Cornell University, N.Y.	24-12-80
<i>Statistics :</i>			
8.	Prof. P. V. Sukhatme	Hon. Director, Maharashtra Association for Cultivation of Science, Pune.	Oct. 15, 1980

6. Faculty Publications

Sr. No.	Name of the Journal	Editor	Month of Publication
1.	The Baroda Journal of Nutrition	Prof. R. Rajalakshmi	September 1980

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

Physics :

A Liquid Nitrogen Plant (AIR PRODUCTS, SUR) was imported and commissioned. It produces liquid nitrogen at the rate of one litre per hour and is used in the low temperature work in solid state physics.

CHAPTER IX-(A)—FACULTY OF EDUCATION AND PSYCHOLOGY

1. Courses of Studies

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

2. Number of Students

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

(a) Degree :

	Men	Women	Total
(i) B.Ed.	134	118	252
(ii) S.Y.B.A. (Psychology)	27	48	75
(iii) T.Y.B.A. (Psychology)	13	43	56
Total (a) :	174	209	383

(b) Post-graduate Degree :

	Men	Women	Total
(i) M.Ed. (Full-time)	—	12	12
(ii) Jr. M.Ed. (Part-time)	21	7	28
(iii) Sr. M.Ed. (Part-time)	19	9	28
(iv) M.A. Part I (Psychology)	4	12	16
(v) M.A. Part II (Psychology)	8	11	19
Total (b) :	52	51	103

(c) Doctorate :

	Men	Women	Total
(i) Ph.D. (Education)	6	3	9
(ii) Ph.D. (Psychology)	1	1	2
Total (c) :	7	4	11
Grand Total :	233	264	497

3. Staff

(a) Present Position :

During the year, the staff of the Faculty (including CASE) consisted of 4 Professors, 11 Readers, 21 Lecturers, 17 Class III and 11 Class IV employees.

(b) New Appointments :

(1) Shri C. N. Daftuar	Reader in Psychology
(2) Shri E. R. Ekbote	Lecturer in Education
(3) Smt. S. D. Patankar	Lecturer in Education

(c) Teachers upgraded to Higher Positions :

Dr. N. S. Pathak	Professor of Psychology
(Reader in Psychology)	

4. Professional Growth of the Staff

(a) Published Articles/Papers :

Sr. No.	Name	Title	Name of the Journal wherein published with month of publication
(1)	Prof. P. K. Dongre	(i) Sanskrit Education (Part I)	Surabharati, M. S. University of Baroda, Baroda, March, 1981.
		(ii) Yajurveda	Vedic Studies Souvenir, AMB Institute, Nasik, February, 1981.
(2)	Dr. D. R. Darji	(i) Towards Education Management	Education Quarterly, New Delhi, April, 1980.
		(ii) Resource Management in Education System	Progress of Education, Pune, Vol. IV, No. 8, March, 1981.
(3)	Dr. S. Roy	University and National Development Linkages with Environment	New Frontiers in Education, Vol. X, No. 4, New Delhi, 1980.
(4)	Dr. B. R. Panchal	(i) Innovative Proneness Scale for Teacher Educators.	Journal of Education and Psychology, April, 1980.
		(ii) Assignment Approach of Teaching	Madhyamik Shikshan and Parikshan, April-May, 1980.
		(iii) Innovative Proneness of Secondary Teacher Educators	Journal of Institute of Educational Research, Madras, May, 1980.

Sr. No.	Name	Title	Name of the Journal wherein published with month of publication
(5)	Dr. (Mrs.) P. M. Buch	Innovation in Student Teaching—some considerations	New Frontiers in Education, January-March, 1981.
(6)	Dr. (Kum.) S. L. Patel	An Experimental Inquiry into Dynamics of Behaviour in a Group Setting	Experiment in Education, July, 1980.
(7)	Dr. (Miss) J. A. Christian	(i) School—A Centre of Social Change (ii) Evaluation Development and Utilization of Educational Media (iii) Factors affecting study habits of X Std. students	Jeevan Shikshan, April 1980. Nootan Shikshan, Ahmedabad, November-December, 1980. Madhyamik Shikshan, December, 1980.

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

Sr. No.	Name of the Teacher	Name, Place and Date of Conference/Seminar	Title of the paper presented
1.	Prof. D. B. Desai	International Conference in Higher Education, Dubronvik, Yugoslavia, 22-9-1980	The Role of University—Today and Tomorrow.
2.	Dr. (Miss) M. M. Shah	Seminar on Curriculum organized by NCERT, Govt. Training College, Chandigarh, 27-12-1980 to 1-1-1981	Role of Teachers in the Development of Curriculum—Some problems and issues.
3.	Dr. G. R. Sudame	13th Conference of IAPC and CI Themes: Surat, 17th to 19th January, 1981	Educational Technology in Distance Education.
4.	Dr. D. R. Darji	IATE Conference, Kanpur, 8th to 11th March, 1981	Curriculum and courses with special reference to NCTE Home Work.
5.	Dr. S. Roy	(i) National Conference of IAPL and EI, Surat, 17-19 January, 1981	Educational Broadcasts: An Evaluation.

Sr. No.	Name of the Teacher/s	Name, Place and Date of Conference/Seminar	Title of the paper presented
		(ii) Conference of Teacher Educators, Jammu, 5-6 March, 1981	Orientation of University Teachers.
6.	Dr. (Mrs.) S. M. Joshi	National Seminar on Student Teaching, Baroda, January, 1981	Microteaching Development of Teaching Competence.
7.	Dr. (Mrs.) P. B. Dekhtawala	National Seminar on Student Teaching, Baroda, January, 1981	Students' View on Adoption Programme.
8.	Dr. (Miss) J. A. Christian	(i) National Seminar on Student Teaching, Baroda, January, 1981 (ii) National Seminar on Student Teaching, Baroda, January, 1981	Directing Student Educational Attitudes — Needed Researches.

(c) Talks given at different Universities/Institutions:

Sr. No.	Name of the Teacher	University/Institution	Subject of the Talk
(1)	Prof. D. B. Desai	(i) Department of Education, Banaras Hindu University (ii) Department of Education, Kalyani University (iii) Bharatiya Vidya Bhavan School, Baroda (iv) Teacher Educators, Madras University, Madras (v) College of Education, Agra	Researches at CASE CASE Researches on Motivation. Case Researches on Classroom Management Researches in Classroom Management and Motivation. Needed Researches in Teacher Education

Sr. No.	Name of the Teacher	University/Institution	Subject of the Talk
		(vi) College of Education, Bilimora, Gujarat	Essentials of Teaching
		(vii) S.R.K.M. Teachers' College, Coimbatore	Effective Teaching
		(viii) R. V. Teachers' College, Coimbatore	Renewal in Classroom and Self
		(ix) Teacher Educator Association, Bangalore	Development of Training in Effective Teaching
(2)	Prof. P. K. Dongre	(i) Faculty of Education, Banaras Hindu University Banaras	Research Trends on Education
		(ii) College of Education, Akola, Maharashtra	Techniques of Research
(3)	Dr. (Kum.) M. M. Shah	Sohanlal College of Education, Ambala	School Adoption Programme
(4)	Dr. D. R. Darji	(i) Sarvajanic High-School, Vaghodia	School Climate
		(ii) College of Education, Palanpur	Innovations in Schools
		(iii) —do—	Leadership Behaviour
(5)	Dr. (Mrs.) Neela A. Shelat	Ahmedabad Productivity Council, Ahmedabad	Motivation and Management
(6)	Dr. J. J. Gajjar	(i) Bardoli School, Bardoli	Appraising Vocational Fitness
		(ii) Secondary School, Thuvavi	Improving Study Habits
(7)	Dr. (Mrs.) P. B. Dekhtawala	Sayaji Boys' School, Baroda	Vani, Vivek, Vartan

5. Library

(a) Particulars :	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	150
(2) Average number of teachers making use of the Library and/or the Reading Room daily	21
(3) Total numbers of books issued to students	About 15,000
(4) Total number of books issued to teachers during the year	5,300
Stock :	11,510

(b) Particulars :	Number	Cost in Rs. P.
(1) Books (including back numbers of journals as on 1-4-1980)	13,210	9,379-56
(2) Books added during the year	300	
(3) Books as on 31-3-1981	13,510	
(4) Journals subscribed to during the year	20	(foreign Journals and 20 Indian Journals)
(5) Amount spent on binding during the year	—	1,409-30
(6) Total amount spent for Library and/or Reading Room during the year		35,000-00
		(U.G.C. Grant of Rs. 20,000 and Recurring Grant of Rs. 15,000)

6. Visitors

Sr. No.	Name and Designation	Date of Visit
(1)	Prof. I. K. Kothari, Head Department of Physics, Abana University, U.S.A.	16th August, 1980
(2)	Dr. (Miss) Vedanayagam E.G., Professor, University of Madras	18th September, 1980
(3)	Mr. V. B. Patel, Gandhi Shikshan Samiti, Bombay	12th December, 1980
(4)	Sister Pai, Secretary, All India National Association of Catholic Missionaries, New Delhi	5th March, 1981

7. Extension Services Centre

The Extension Services Centre has introduced so far a variety of programmes for the Development Growth and betterment of Secondary Schools, Primary Teachers' Training Colleges and their practices. This year the Centre organised Seminars, Workshops, Seminars-cum-Workshops, Orientation Courses, Training Courses, Lectures, Talks, Projects, Discussions, Conferences, Meetings, Symposia etc., for the Secondary Schools and Primary Teachers' Training Colleges of two Districts (Baroda and Panchmahal) under its jurisdiction.

The participants in the above mentioned programmes were also of the varied background i.e. Principals, Supervisors, and Teachers of Secondary Schools, Principals and Lecturers of Primary Teachers' Training Colleges, District Secondary Education Officers and leading educationists of Gujarat.

CHAPTER IX (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.

2. Number of Students

	Boys	Girls	Total
(1) Primary I to VII	211	125	336
(2) Secondary VIII to X	97	65	162
(3) Higher Secondary XI, XII	143	98	241
Total :	451	288	739

3. Staff

(a) Present Position :

The Staff of the school consists of 2 post-graduate untrained teachers, 10 post-graduate trained teachers, 4 graduate trained teachers, 1 graduate untrained teacher, 5 other teachers, 2 laboratory Co-ordinators, 1 Library Clerk, 1 Senior Clerk, 1 Junior Clerk and 7 Class IV Employees.

(b) New Appointments :

(1) Shri D. T. Madhvani	Higher Secondary Teacher
(2) Mrs. N. Y. Naik	Higher Secondary Teacher

(c) Teachers who left the School :

(1) Shri D. T. Madhvani	Higher Secondary Teacher
(2) Mrs. N. Y. Naik	Higher Secondary Teacher

4. Professional Growth of the Staff :

(1) Dr. Mahendra Chokshi participated in the weekly literary programme of "Kefiat and Aswad" as a resource person organised by Extension Service, Faculty of Education and Psychology.

(2) Shri M. M. Amin participated in the following Seminar Cum-Workshops organised in Co-ordination of the Extension Department of the Faculty of Education and Psychology.

- (a) Seminar-cum-Workshop for Assignment approach in Science and Mathematics of Std. X at Fertilizer Nagar High School from 16th June, 80 to 18th June, 1980.

- (b) Seminar-cum-Workshop for Baroda District Secondary School teachers of Science and Panchamahar Dist. Secondary school teachers of Science on 12th and 13th August, 1980. Its subject was science practicals of Std. VIII to IX.
- (c) Seminar-cum-Workshop in unit planning and unit testing of Stds. VII, IX & X Science for the Secondary teachers of Baroda District and Panchamahar Dist. at Chhotaudepur from 25th to 28th November, 1980.
- (d) Seminar-cum-Workshop in unit planning and unit testing of Stds. VIII, IX and X Science for the Secondary School teachers of Panchamahar Dist. at Devgadbaria on 26th and 27th December, 1980.

5. Experiments and Activities :

- (1) The pupils of Std. IV took part in the Radio Programme 'Chandapoli'.
- (2) Our School children presented a programme "Let us Meet Chanda Mama" by Shri Chandravadan Mehta on All India Radio.
- (3) An Entertainment Programme of the pupils of Std. XI and XII under the guidance of the B.Ed. students was presented.
- (4) "Rentiya Baras" was celebrated as "Cleanliness day" in the School.

6. Results of Examinations :

- (1) 85% result of the New S. S. C. Examination of March, 1980. Chi. Alkesh C. Amin stood tenth in Baroda Centre.
- (2) 86.6% result of the Higher Secondary Exam. (Science Stream) Held in April, 1980. Chi. Nank Jaysingani stood first and Chi. Chirayu Bardoliwala stood ninth in Baroda Centre.
- (3) 78.5% result of the Higher Secondary (Common Stream) held in April, 1980. Chi. Trupti T. Shah stood ninth in Gujarat State and First in Baroda Centre.
- (4) Result of Hindi Examination held by Gujarat Vidyapith.

(i) Balpothi	87.5%
(ii) Paheli	39.6%
(iii) Dusari	57.5%
(iv) Tisari	20.0%

- (5) Scholarship Examination.
 - (i) Higher School
Scholarship Exam. 50%
 - (ii) Middle School
Scholarship Exam. 50%
- (6) English Exam. by Bharatiya Vidya Mandal, Surat
 - (i) First Grade 98%
 - (ii) Primary Grade 98%
 - (iii) Second Grade 92%

7. Award and Prizes :

(i) Awards in Fine Arts :

- (a) Chi. Ajit J. Shah of Std. VIII won a bronze medal in the International child Art Competition held in Korea.
- (b) Chi. Fahim Raza of Std. IX won the Soviet Land Nehru Merit Certificates.
- (c) The school bagged the highest number of prizes at the Child Art Competition organised by Baroda Art Teachers Association at Sayaji Garden. Chi. Veena Christian of St. IX won the First Prize.

(ii) Awards in Sports :

- (a) Chi. Shanti Pillai and Chi. Rekha Joshi of Std. XII (Common) were honoured and given 'Blazer' by the Gujarat Government for taking part in Hockey Tournament at State Level.
- (b) Chi. Ami Mehta (Std. XII Common) stood second in Table Tennis Tournament at Rajkot.
- (c) Chi. Advait Bhatt of Std. VII got the fourth place in All India Roller Skating Competition.

The following pupils won prizes in sports held by Athletic Association, Baroda.

(1) Chi. Shilpa Patel	High Jump	Second Prize
(2) Chi. Shaila Nanavati	Disc. Throw	First Prize
(3) Chi. Nilima Gadkari	Long Jump	Third Prize
(4) Chi. Nilima Gadkari	High Jump	First Prize
(5) Chi. Gaurav Patel	High Jump	Fourth Prize
(6) Chi. Gauri Panchal	High Jump	Third Prize
(7) Chi. Gauri Panchal	800 meter running	Second Prize
(8) Chi. Dipti Patel	Javelin throw	Second Prize
(9) Chi. Dipti Patel	Long Jump	First Prize

8. Visitors

Name	Subject of the Talk
(1) Rev. Father Subelia	The Life of Jesus Christ
(2) Shri Gani Dahiwal	Poems and Gazals
(3) Shri Ratilal Anil	Forms of Literature

CHAPTER X—FACULTY OF COMMERCE

1. Courses of Studies

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

2. Number of Students

The classwise distribution of students during the year 1980-81 was as under :

Class	Men	Women	Total
(1) Diploma in Co-operation (Under-graduate)	8	2	10
(2) F.Y.B.Com.	791	539	1330
(3) S.Y. B.Com.	669	416	1085
(4) T.Y.B.Com.	759	409	1168
(5) M.Com. Part I	105	30	135
(6) M. Com. Part II	92	31	123
(7) Ph.D.			
(8) Post-graduate Diploma in Banking	26	35	61
(9) Post-graduate Diploma in Co-operation	7	01	08
Total :	2457	1463	3920

3. Staff

(a) Present Position :

The staff of the Faculty consisted of 6 Professors, 10 Readers, 19 Lecturers, 14 Class III and 23 Class IV employees.

4. Professional Growth of the Staff

(a) Published Articles/Papers :

Sr. No.	Name/s Subject	Title	Name of the Journal, wherein published with month of publication
(1)	Prof. G. C. Beri	Research and Development Activity in India	Vol. XXI, No. 2, Productivity, New Delhi, July-Sept. 1980.
(2)	Prof. C. S. Rathod	An enquiry into Management of the District Central Co-operative Banks in Gujarat	M. S. University Journal, January, 1981.

(b) *Published Books and Brochures :*

Sr. No.	Name of the Author/s	Name of the Book	Name of the Publishers
(1)	Mrs. (Dr.) B. H. Elavia	A Study of viability of a Central Co-operative Bank	The Baroda Central Co-operative Bank Ltd., Baroda, April 1980.

(c) *Papers presented at All India Level Seminars/Conferences etc. :-*

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
(1)	Prof. G. C. Beri	A course in Marketing at the Graduate level for American Universities for its use in U.K. and U.S.A.	"A Course in Marketing"
(2)	Prof. C. S. Rathod	III National Seminar on Banking, Baroda, March, 1981	Scenario of Urban Banks in Eighties
(3)	Mrs. (Dr.) B. H. Elavia	—do—	"New Viswas of Growth of the Banking Section in the Eighties."
(4)	Shri R. K. Raval	XXXI All India English Teachers' Conference held at Varanasi, B.H.U., 29th to 31st Dec., 1980	The Treatment of Vortex as vehicular form in Byron and Turner—some parallels.

(d) *Talks given at different Universities/Institutions :*

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(1)	Prof. G. C. Beri	Railway Staff College, Baroda	"Marketing".
(2)	Prof. C. S. Rathod	The Kaira District Co-operative Union, Nadiad	Gave several talks to different categories of participants on variety of subjects.

(e) *Participation in Inservice Programme :*

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
(1)	Mrs. (Dr.) B. H. Elavia	III National Seminar on Banking, Faculty of Commerce, Baroda	Director (Media)
(2)	Dr. S. Srikantiah	The Industrial Development Bank of India From Industrial Development Bank of India. Studies in Tiny Sector. Dec. 1980	Research Assignment

(f) *National Awards :*

Name of the Teacher	Description of the Award
Shri R. K. Raval	(i) Hari Om Ashram Prerit Bhaikaka Inter-University Smarak Trust Prize. (ii) For the best essay in Fine Arts Aesthetics.

CHAPTER XI—FACULTY OF MEDICINE
(A) MEDICAL COLLEGE

1. Courses of Studies

- (a) The courses of studies remained the same as in the previous year.
(b) New course introduced during the year was Diploma in Industrial Health.

2. Number of Students

(1) Degree :

	Male	Female	Total
(i) 1st Year	118	22	140
(ii) 2nd Year	134	29	163
(iii) 3rd Year	177	31	208
(iv) 4th Year	126	26	152
(v) 5th Year	124	19	143
Total :	679	127	806

(2) Post-graduate Diplomas :

	Male	Female	Total
(i) D.A.	} All branches	6	87
(ii) D.C.P.			
(iii) D.G.O.			
(iv) D.L.O.			
(v) D.M.R.D.			
(vi) D.O.			
(vii) D.C.H.			
(viii) T.D.D.			
(ix) D.V.D.			
(x) D.I.H.			
Total :	81	6	87

(3) Post-graduate Degrees :

	Male	Female	Total
(i) M.D.	} All branches	11	90
(ii) M.S.			
(iii) M.Sc.			
(iv) Ph.D.			
Total :	79	11	90
Grand Total :	839	144	983

3. Staff

(a) Present Position :

The staff of the College consisted of 1 Dean, 23 Professors, 11 Associate Professors, 50 Assistant Professors, 46 Tutors, 11 other Gazetted Teachers, 6 Part-time Tutors, 4 Part-time Assistant Professors, 11 Honorary Professors, 6 Honorary Assistant Professors, 3 Full-time Surgeons-Physicians, 118 Class III and 102 Class IV employees.

(b) New Appointments :

(1) Dr. S. S. Akolekar	Assistant Professor of Anatomy
(2) Dr. (Smt.) S. Dua	Tutor in Anatomy
(3) Shri K. D. Pandya	Tutor in Physiology
(4) Shri S. K. Date	Tutor in Pharmacology
(5) Dr. (Miss) R. D. Jotwani	Tutor in Pharmacology
(6) Dr. R. R. Ingle	Tutor in Pathology
(7) Dr. P. J. Parikh	Tutor in Pathology
(8) Dr. R. A. G. Mukherjee	Tutor in Pathology
(9) Dr. A. S. Nigam	Tutor in Microbiology
(10) Dr. H. I. Desai	Tutor in Microbiology
(11) Dr. (Miss) V. N. Rajwade	Tutor in Microbiology
(12) Dr. J. P. Parmar	Tutor in P. and S. Medicine
(13) Dr. A. N. Setalwad	Associate Professor of P. and S. Medicine
(14) Dr. K. B. Modi	Assistant Professor of Medicine
(15) Dr. J. D. Lakhani	Tutor in Medicine
(16) Dr. H. R. Patel	Tutor in Medicine
(17) Dr. (Miss) J. K. Desai	Assistant Professor of Surgery
(18) Dr. (Miss) D. V. Modi	Assistant Professor of Paediatrics
(19) Dr. A. R. Patel	Part-time Assistant Professor in E.N.T.
(20) Dr. (Miss) M. R. Shah	Assistant Professor in Anaesthesia
(21) Dr. P. K. Shah	Assistant Professor in Plastic Surgery
(22) Dr. (Smt.) S. Basu	Tutor in F. Medicine
(23) Dr. P. K. Shah	Tutor in Medicine
(24) Dr. B. J. Brahmhatt	Tutor in F. Medicine
(25) Dr. S. M. Mehta	Tutor in F. Medicine
(26) Dr. C. M. Shah	Part-time Tutor in T.B.

(c) Teachers upgraded to Higher Position :

(1) Dr. (Smt.) K. V. Bondre	(Asstt. Prof. Ant.)	Asso. Prof. of Anatomy
-----------------------------	---------------------	------------------------

- (2) Shri P. P. Rao (Tutor in Ant.) Asstt. Prof. of Anatomy
 (3) Smt. S. R. (Tutor in Phy.) Asstt. Prof. of Physiology
 Brahmbhatt
 (4) Dr. (Smt.) K. G. (Asstt. Prof. in Pharm.) Asso. Prof. of Pharmacology
 Hemavathi
 (5) Shri A. P. Rajani (Tutor in Pharm.) Asstt. Prof. in Pharmacology
 (6) Dr. S. P. Pandya (Tutor in Path.) Asstt. Prof. in Micro.
 (7) Dr. A. G. Desai (Tutor in Path.) Asstt. Prof. in Pathology
 (8) Shri V. J. Lakkad (Tutor in Micro.) Asstt. Prof. in Micro.
 (9) Shri J. B. Ghoda (Tutor in Micro.) Asstt. Prof. in Micro.
 (10) Dr. (Smt.) G. D. (Tutor in P. and S. M.) Asstt. Prof. in P. & S. M.
 Joshi
 (11) Dr. P. V. (Tutor in P. & S. M.) Asstt. Prof. in P. and S. M.
 Kotecha
 (12) Dr. (Mrs.) H. H. (Asstt. Prof. in Anaesthesia) Asso. Prof. in Anaesthesia
 Raval
 (13) Dr. V. B. Kalra (Asstt. Prof. of Radio.) Asso. Prof. in Radiology

(d) Teachers who left the College :

- | | | |
|-------------------------------|-------------------------------|-------------|
| (1) Dr. P. T. Acharya | Dean, Medical College, Baroda | Expired |
| (2) Shri M. P. Patel | Tutor in Pharmacology | Transferred |
| (3) Dr. (Miss) P. M. Vora | Tutor in Pathology | Resigned |
| (4) Dr. (Smt.) K. R. Vaishnav | Asstt. Prof. of Surgery | Transferred |
| (5) Dr. (Miss) J. K. Desai | Asstt. Prof. of Surgery | Transferred |
| (6) Dr. (Miss) P. R. Dakwala | Asso. Prof. of Anaesthesia | Transferred |
| (7) Dr. P. K. Shah | Tutor in F. Medicine | Transferred |
| (8) Dr. C. V. Shah | M. O. Mobile Hospital | Resigned |

4. Professional Growth of the Staff

(a) Published Articles/Papers :

Name/s	Title	Name of the Journal
(1) (1) Dr. S. Chandwani	Lung volumes & capacities during normal pregnancy.	Journal of the M. S. University of Baroda, Vol. XXIX, No. 3
(2) Shri K. D. Pandya		
(3) Dr. C. A. Desai		
(2) (1) V. P. Dhumal	Central hypotensive effect of V-aminobutyric acid in ana-	J. Pharm. Pharmac. 32 724-725, 1980

Name/s	Title	Name of the Journal
(2) O. D. Gulati	esthetized dogs.	
(3) V. H. Bhavsar		
(3) (1) V. SR. Krishna-murthi	Influence of Mg ⁺⁺ and reserpine on calcium fluxes and sensitivity of rat sorta.	Arch. Int. Pharmacodyn. 246, 61-70, 1980
(2) O.D. Gulati		
(4) (1) O. D. Gulati	Clinical trial of tinospora cordifolia in rheumatism ar-	Rheumatism, 15 143-148, 1980.
(2) C. P. Shah	thrititis.	
(3) R. C. Kanani		
(4) D. C. Pandya		
(5) D. S. Shah		
(5) Dr. R. V. Bhatt	(i) Quinacrine - induced Pathologic changes in the Fallopean tube.	Fertility and Sterility, June, 1980
	(ii) Camp approach to female sterilization.	Medicine and Surgery
	(iii) Pregnancy Termination with Batelle Hand Pump, Baroda Experience.	J. Obst. Gyn. Ind. June, 1980
(6) Dr. M. P. Bhatt	(i) Long acting prostaglandin in Vaginal suppositories for termination of pregnancy.	Medicine and Surgery
	(ii) Laproscopic Appraisal of '76 cases of Infertility	Medicine and Surgery, Nov. 1980
	(iii) Atomic post-partum haemorrhage in case of primixpara	Medicine and Surgery, March, 1981

Name/s	Title	Name of the Journal
(iv)	Lower Genital Tract injuries in house wife	Medicine and Surgery, Dec. 1980
(v)	Female Sterilization in Camp setting Indian experience	Medicine and Surgery, Nov. 1980 (Jointly)
(vi)	Camp approach to laproscopic female sterilization	Proceedings of 3rd International Seminar on maternal mortality.
(7) (1) Dr. A. G. Desai	Clinico-Pathologic Study of Malignant Bone Tumours	Indian Journal of Medical Sciences, Bombay, March, 1981.
(2) S. V. Jalihal		
(3) Dr. P. S. Nagpal	Chordoma of Spinal Chord at the level of T-4 and T-5"	Indian Journal of Bones and Joints Surgery.
(8) (1) Dr. S. B. Patra	Serum Electrophoretic pattern in Amyloidosis Complicating Pulmonary Tuberculosis	Indian Journal of Medical Research, Vol. 73, Feb. 1981, 258
(2) Dr. C. I. Jhala		
(9) (1) Dr. A. G. Desai	A Clinico-Pathologic Study of Malignant Bone Tumours	Indian Journal of Medical Sciences, Bombay, March, 1981

(b) *Published Books and Brochures :*

Sr. No.	Name of the Authors	Name of the Book/Chapter	Name of the Publishers
(1)	Dr. R. V. Bhatt	(i) Introduction to Microsurgery	Continuity of Medical Education in Obst. and Gynaec., Publisher : Federation of Ob. Gy., India
		(ii) Perinatal Mortality in Breach	Proceedings of Xth World Congress Ob. Gyn., Tokyo, Publisher: Excerpta Medical, Holland

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

Name of the Teachers	Name, Place and Dates of the Seminars/Conference	Title of the Paper
(1) Smt. S. R. Brahmabhatt	International Conference on Internal Medicine, B. J. Medical College, Ahmedabad, 28-29th Jan. '81	Study of the Lipid profile in patients of CHD.
(2) Tarun Kr. Das	(i) Annual Conference of APPI, Bombay, 27-29th Dec. '80	EMR in Pregnancy and Lactation.
	(ii) Indian Science Congress, Banaras., 3rd-7th Jan., '81	EVC, MCB, Expiratory flow rates and BMR during preg. and lactation
(3) D. R. Trivedi C. A. Desai S. Chandwani	Annual Conference of APPI, Bombay, 27-29th Dec., '80	Study of Cardiovascular changes during pregnancy
(4) K. D. Pandya S. Chandwani C. A. Desai	(i) Annual Conference of APPI, Bombay, 27-29th Dec. '80	Study of VC and TVC in normal non-pregnant and pregnant women.
	(ii) Indian Science Congress, Banaras, 3-7th Jan., '81	-do-
(5) N. R. Pathak C. A. Desai S. Chandwani	Annual Conference of APPI, Bombay, 27-29th Dec., '80	Hematological changes during normal menstrual cycle

Pharmacology :

(6) Dr. S. R. Patel and Dr. O. D. Gulati	Annual Conference of I.P.S. at Jammu on 29th Sep., '80	Effects of some autonomic drugs on goat spleen.
(7) Mr. D. S. Joshi, Dr. O. D. Gulati, Dr. (Mrs.) K. G. Hemavathi	Annual Conference of I.P.S. at Jammu on 29th Sep., '80.	Interactions of levamisole with some autonomic drugs on guinea-pig vas deferens.
(8) Mr. J. D. Bhatt and Dr. O. D. Gulati	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th, 29th December, 1980 at Bombay	Effect on blood pressure and vas deferens of rat treated chronically with ethinyl estradiol.

Name of the Teacher	Name, Place and Dates of the Seminars/Conference	Title of the paper
(9) Mr. A. P. Rajani and Dr. O. D. Gulati	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th, 29th December, 1980 at Bombay	Effects of Pre-synaptic alpha and beta adreno-receptor agonists on field stimulated anococcygeus muscle of rat.
(10) Dr. S. V. Desai and Dr. O. D. Gulati	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th, 29th December, 1980 at Bombay	Investigations of some effects of dehydrometine on isolated anococcygeus muscle of rat.
(11) Dr. K. K. Shah, Dr. O. D. Gulati and (Mrs.) K. G. Hemavathi	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th, 29th December, 1980 at Bombay	In vivo and in vitro studies of the autonomic effects of levamisole.
(12) Dr. S. K. Date, Dr. O. D. Gulati and Dr. (Mrs.) K. G. Hemavathi	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th and 29th December, 1980 at Bombay	Investigation of the Muscle relaxant action of nitrazepam.
(13) Miss S. G. Gurbani, Dr. O. D. Gulati and Dr. K. K. Shah	XXVI Annual Conference of Indian Journal of Physiology and Pharmacology on 27th, 28th and 29th Dec. 1980 at Bombay	The effect of Potassium on stimulation and relaxation of rat stomach strip.
<i>Pathology :</i>		
(14) Dr. B. B. L. Mathur	(i) 13th Annual Congress of International Academy of Pathology and 4th World Congress on Environmental Conference from 14th to 19th September, 1980 at Paris, France (ii) Indian Association of Pathologists and Microbiologists at Belgaum, Karnataka State on 27th, 28th and 29th December, 1980	

CHAPTER XI—(B) SHETH UJAMSHI PITAMBARDAS AYURVEDIC RESEARCH UNIT

1. Function of the Unit

Research in Ayurvedic is the sole object of the Unit. The Unit has a library, a Museum of Indian Medicinal Herbs and Minerals, a Rash-Shala and an Out-patient Department, Beds for Ayurvedic Clinical Research are made available by Honorary Modern Physician attached to the Unit.

2. Staff

The Staff of the Unit consists of an Honorary Head, an Honorary Modern Physician, a Research Officer, an Assistant Research Officer, a Research Fellow (Modern Medicine), 3 Class III and 4 Class IV employees.

3. Library

The total number of books in the library is 2,595.

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 are also maintained. A Section on Ayurvedic Medicinal preparations is also provided. Work concluded in the Unit is exhibited separately. There are about 1,000 Ayurvedic specimens, 54 herbarium frames, 7 original Ayurvedic photo frames, 75 specimen 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

Rasa-Shala :

Powders of the fruits of *Ficus glomerata* and of internal bark of *Azadirachta Indica* and watery extract of *Ficus glomerata* are being prepared in the Rasa-Shala.

Research Work—(A) Clinical Trials

(B) Pharmacological experimental work.

- (a) (i) *Clinical trial of Emblica officinalis (Amla) as a cough sedative*
Capsules of powdered dry fruits of *Emblica officinalis* given

orally produced beneficial effect in all of 10 patients with dry cough as judged from the reduction in the frequency of coughing bouts and the increases in sleeping time. The work is in progress.

- (ii) *Clinical study of Azadirachta Indica (Neem) in dry eczema.*
Powdered inner bard of Azadirachta indica was administered to patients in capsules, Oil from the seeds of Azadirachta indica was used for external application. The patients were divided into three groups. One group (9 patients) received only the oil application; the second group (13 patients) received only capsules and the third group (26 patients) received both oil application and capsules orally. Patient compliance was poor in the first group. Satisfactory result were obtained in the second and third group. The work is in progress.
- (iii) *Clinical study of Ficus glomerata (Udamber) in dyspepsia.*
Powdered fruit of Ficus glomerata administered orally in capsules was found to be effective in 13 cases of dyspepsia. It has no beneficial effect in patients with paptic ulcer. The work is in progress.

(B) (i) *Anti-spasmodic activity of Fucus glomerata (F.G.) (Country fig; Hindi-Gular; Gujarati-Umad).* The watery extract of Ficus glomerata was found to inhibit the contractile effect of 5-hydroxytryptamine on guine pig isolated ileum. This inhibitory effect was dose-related (33.5 to 134 ug/ml.) However, higher dose (134 ug/ml) produced lesser unhibition of the contractile effect of 5-hydroxytryptamine. In the presence of F.G. extract the dose response curve of 5 H.T. was shifted to the right and the maximum response was obtained even in the presence of the extract suggestesting a competitive antagonism. Histamine responses are competitively inhibited by 67 and 134 ug/ml. F.G. Watery extract containing Na 552 mg/lit, K-663 mg/lit and Ca. ++ 2.8 mg% 100 ml. The work is in progress.

- (ii) *Anti-gastric ulcer activity of Tamra Bhasma in rats.*
Tamra Bhasma obtained from Gujarat Ayurvedic Vikas Mandal, Junagadh, was shown in our laboratory to exert anti-gastric unclear activity both (cureative and prophyl-

actic) against gastric ulcer induced by dexamethasone in female albino rats. The effect was dose-dependent (7.5 120 mg/kg.)

(iii) *Hypolipidemic effect of Shuddha Guggul.*

Guggul has been reported to lower various lipid levels of plasma. Most of the known hypolipidemic agents lower one compenent of the plasma lipids with concomitent increase of the other. In the light of this it seemed interesting if it could be demonstrated whether guggul lowered the plasma level of both cholesterol and triglycerides.

Guggul was used in 25 rabbit and the results showed both serum cholesterol and triglyceride levels were lowered.

6. General Ayurvedic O.P.D.

During the year 24277 old cases and 1424 new cases were registered in the OPD of the Unit. Total No. of patients for the year was 25701.

CHAPTER XII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Courses of Studies

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

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

	Men	Women	Total
(a) Diploma	195	—	195
(b) Degree	2,232	68	2,300
(c) Post-Graduate Degree/Diploma	195	18	213
(d) Ph.D.	39	2	41
Grand Total	2,661	88	2,749

3. Staff

(a) Present Position :

During the year the staff of the Faculty consisted of 30 Professors, 1 Professor of Training and Placement, 54 Readers, 109 Lecturers, 1 Junior Instructor, 192 Class III and 100 Class IV employees.

(b) New appointments :

- | | |
|-------------------------------------|-------------------------------------|
| (1) Shri S. K. Shah, | Lecturer in Electrical Engineering |
| (2) Prof. S. K. Datta, | Profesor of Pharmacy |
| (3) Smt. S. N. Gupta, | Lecturer in Architecture |
| (4) Dr. N. G. Jain, | Reader in Pharmaceutical Technology |
| (5) Dr. S. A. Puranik, | Professor of Chemical Engineering |
| (6) Shri H. J. Shah, | Lecturer in Applied Mechanics |
| (7) Dr. (Smt.) Gayatri S. Banerjee, | Lecturer in Pharmcology-Cum-Biology |
| (8) Shri P. K. Patel, | Lecturer in Mechanical Engineering |

(c) Teachers upgraded to Higher Positions :

- | | |
|--|-------------------------------------|
| (1) Shri V. H. Shah, | Professor of Mechanical Engineering |
| Reader and Head, Mechanical Engineering Department and Principal, Polytechnic. | |

- | | | |
|--|---|----------|
| (2) Shri A. M. Shah, | Reader in Electrical Engineering Department | |
| Reader/Head, Electrical Engineering Department, Polytechnic. | | |
| (3) Shri M. C. Shah, | Reader in Electrical Engineering | |
| Lecturer in Electrical Engineering. | | |
| (4) Shri N. G. Bhavsar, | Reader in Electrical Engineering | |
| Lecturer in Electrical Engineering | | |
| (5) Dr. S. R. Karmarkar, | Professor of Textile Chemistry | |
| Reader in Textile Chemistry | | |
| (6) Shri Sunder Murti, | Reader in Metallurgical Engineering | |
| Lecturer in Metallurgical Engineering | | |
| (7) Shri K. M. Shah, | Reader in Textile Engineering | |
| Lecturer in Textile Engineering | | |
| (8) Shri C. G. Gupte, | Reader in Mechanical Engineering | |
| Workshop Superintendent | | |
| (9) Shri G. S. Parthasarthy, | Reader in Civil Engineering | |
| Lecturer in Civil Engineering. | | |
| (10) Shri T. D. Bhagia, | Professor of Applied Mechanics | |
| Reader in Applied Mechanics. | | |
| (11) Shri V. D. Pathak, | Reader in Mathematics | |
| Lecturer in Mathematics, Faculty of Science | | |
| (12) Shri S. A. Thakur, | Professor of Electrical Engineering | |
| Reader in Electrical Engineering | | |
| (13) Shri R. M. Bhagia, | Reader in Applied Mechanics | |
| Lecturer in Applied Mechanics, Polytechnic | | |
| (d) Teachers who left the University : | | |
| (1) Prof. S. M. Sen, | Professor of Electrical Engineering Department and Dean | Retired |
| (2) Smt. N. V. Sudhalkar, | Lecturer, in Electrical Engineering | Resigned |

- (3) Dr. V. Seshadri, Professor of Metallurgy, "
- (4) Prof. S. K. Datta, Professor of Pharmacy "
- (5) Dr. K. S. Sastri, Reader in Electrical Engineering "
- (6) Dr. V. N. Misra, Reader in Metallurgical Engineering "

4. Professional Growth of the Staff

(a) Published Articles/Papers :

Name	Title	Name of the Journal wherein published with month of publication
<i>Applied Mechanics Department :</i>		
1. Dr. A. V. Shroff	Recordinolic grout for in-jacting sandy foundation (Technical note)	American Society of Civil Engineers, Geotechnical Division, Date 10, October, 1980
2. Shri B. N. Shah & Shri R. D. Bhatt	A study of Relative efficiency of various soil stabilization additives on clay soil	Indian Highways (Indian Road Congress Publication), December 1980, Vol. 8, No. 12 (Page 105-110)
3. Shri D. J. Kothari, Shri A. N. Shah, Prof. O. H. Patel	Studies on Feasibility of Uring Fermentor Exhaust Air for Industrial Waste Water Treatment	Indian Journal of Environmental Health, January, 1981.
4. Shri N. M. Bhatt	Importance of quality chemical, in the testing of water prize awarded	Glaxo Water Chemists Forum, Bombay September, 1980.
5. Dr. S. A. Puranik	The Development and Applications of Technique of Solvent extraction	Proceeding of the Symposium on "Solvent, Extraction of Metals", Bhaba Atomic Research Centre, Bombay, VI-101, 1980.
6. Shri R. R. Chokshi & Prof. Dipak De	Tranial Fabric	Textile Industry & Trade Journal, Vol. XViii No. 7, 8, July-August, 1980, P. 33

Name	Title	Name of the Journal wherein published with month of publication
7. Shri V. H. Kapadia	Shuthlethle Speed meter—its design & use	Textile Industry & Trade Journal, Vol. xviii, No. 9-10, Sept., October, 1980, P. 19
8. Karmarkar	(i) Problems in Dyeing Texturised Polyester Material. (ii) Discharge Style Printing of Disberse Dyed Polyester Fibre. (iii) Sulfuric Acid in Nylon Printing	The Textile Industries Trade Journal, April, 1980 Journal of Textile Association, November 1980. The Indian Textile Journal December, 1980
9. Leena S. Trivedi & Dr. K. K. Rao	Production of Cellulolytic Enzymes by Fusarium sp.	Proc., VIth International Formentation Symposium, Canada, p. 133, 1980.
10. V. Narayan, Dr. K. K. Rao & Rajani Giridhar	(i) Antimicrobial activity of essential oil from E. Cardamonu. (ii) Antimicrobial activity of essential oil of C. Zeylanicum (iii) The invitro efficiency of Essential oils of some umbeliferae plants	Eastern Pharmacist, Vol. xxiii, 113, 1980. Indian Drugs, 17,360, 1980. Indian Drugs, 17,394 1980.
11. Shri S. A. Patel & Dr. Y. K. Agrawal	Solvent Extraction and Photometric Determination of a Microgram of Cerum with N-p-Tolyl-p-Chlorobenzhydroxamic acid.	Microchem J., 25, 48 (1980).
12. Dr. Y. K. Agrawal	(i) Rapid Extraction and Spectrophotometric Determination of Niobium with N-p-Chlorophenylbenzo-hydroxamic acid	Bull. Soc. Chim-Belgs., 89, 9-14 (1980) (1980)

Name/s	Title	Name of the Journal wherein published with month of publication
	(ii) Solution Stability Constants of Beryllium, Cadmium & Uranium with N-o-Toly benzohydroxamic.	Bull. Soc. Chim. Balgs., 89, 158-174 (1980)
	(iii) Thermal Analysis of Rare earth complexes of Phenylbenzocycloamate.	Thermochim. Acta. 38, N-P153 (1980)
	(iv) Extraction Spectrophotometric Determination of Lead in the Environment.	Internat. J. Environ. Anal. Chem. 8, 67 (1980)
	(v) Correction factors for the glass electrode in Aqueous Ethanol	J. Electroanal. Chem., 108 (3), 369 (1980)
	(vi) Determination of Molybdenum in Human Blood.	Anal. Letters, 13 (5) 357 (1980)
	(vii) O-Tolyl substituted benzohydroxamic acids as colorimetric reagents for vanadium	Bull. Soc. Chim. Belgs. 89 (4), (1980.)
	(viii) Hydroxamic Acids and their Analytical Applications.	Reve. 5 Anal. Chem., (1.2), 3 (1980)
	(ix) Solvent Extraction of Transition of Titanium, Vanadium, Corium and Uranium, N-p-Chlorophenylbenzohydroxamic Acid.	Ann. Chim., 70, 217 (1980)
	(x) Non-Aqueous Titrimetric Estimation of some Drugs.	Sci. & Culture 46, 309 (1980).
13. Dr. T. N. V. Raghvan & Y. K. Agrawal	Vanadium Determination in Petroleum Crude Spectrophotometric Determination of Niobium with N-p-chlorophenylbenzohydroxamic acid	Bull. Soc. Chim. Belgs., 89 9-14 (1980)

Name	Title	Name of the Journal wherein published with month of publication
14. Dr. Y. K. Agrawal and R. D. Roshania	(i) Hydroxamic acids in Gravimetric analysis	Bull. Soc. Chim. Belgs., 158-179 (1980)
	(ii) Non-aqueous Titrimetric Determination of N-p-Chlorophenylbenzohydroxamic Acids Visual and Potentiometric Titrations in Dinethylforamine.	Bull. Soc. Chim. Belgs., 175-179 (1980)
	(iii) Preparation of some Halobyrirgramic acids	J. Chem. Eng. Date, 25, 295 (1980)
15. B. K. Patel, N. H. Shah and Y. K. Agrawal	Gossypol-A-Gravimetric, Reagent for Co (II), Ni (II), Cu (II), and Zn (II).	Chemical Dra. 15, 1 (1980)
16. Dr. Y. K. Agrawal, K. P. S. Raj and M. S. Sant	Microgram Determination of Vanadium from Natural Resources.	Microchem. J. 25, 219 (1980)
17. Dr. Y. K. Agrawal, S. K. Pathke and K. P. S. Raj	Control of Lead Pollution from Discharge of Industrial Effluents to the Environment.	Chem. Eng. World, 15 (7), 35 (1980)
18. R. K. Jain and Y. K. Agrawal	Solvent Extraction and Spectrophotometric Determination of Uranium with substituted Cinnamohydroxamic Acids.	Chem. Geol. 70, 235 (1980)
19. Dr. Y. K. Agrawal, M. P. Patel, S. J. Desai and Prof. S. S. Merh	A rapid method of Microgram Analysis of Titanium from Rocks	Chem. Geol. 30, 167, (1980)
20. Dr. Y. K. Agrawal and R. D. Roshania	Thermodynamic Proton Ligand Stability in Constants of Dioxanwater media. pKa values for N-p. Chlorophenyl substituted hydroxamic acids.	Thermochim. Acta. 42, 1, (1980)

Name	Title	Name of the Journal wherein published with month of publication
21. Dr. Y. K. Agrawal and S.K. Pathke	Control of Cadium of Discharge of Industrial Effluents to Environment.	Chemical Age of India, 31, 1971, (1980)
22. Dr. Y. K. Agrawal, M. P. Patel and Prof. S. S. Merh	Lead in Soils and Plants. Its Relationship to traffic volume and proximity to highway (Lal Baug, Baroda City)	International J. Environ. Studies, 8, 157, (1980)
23. R. Kaur and Dr. N. K. Jain	(i) Lyrosomal enzymes in Inflammation (ii) Magnesium metabolism in Psychiatric Disorders	The Eastern Pharmacist. Jan. 1981 Pharm Tine, 13 (2), 17-20, 1981.
24. S. M. Khanna, V. G. Patel and N. K. Jain	Sterils Filterations 1.	I.D.M.A. Bulletin XII (8), 1-4- 1981
25. R. Balaraman	Pharmacological Investigation of Dentroptjea fulcata.	Indian Drugs Feb. 1981
26. S. M. Khanna	(i) Emilgent studies of the Inter esterified products of Soyabeen Oil (ii) Polynorphirm Part II	Indian Drugs and Pharmaceuticals Industry, May-June, 1980 Pharma Times Nov., 1980 Vol. 2, No. 11, p. 13
27. Dr. (Mrs.) G. Banerjee	Mature venation pattern in certain members of Amaranthaceas.	Flora 169, 104-110, 1980
28. Shri S. P. Rathod, M. P. Patel,, O. S. Shah and A. K. Batham	Comperative study on the Sympathomumetic effect of the Guanethiline and Cleaine on Rat vas deferens	Indian J. Med. Res., 71, 433-437, 1980
29. Dr. J. M. Lohar and G. H. Patel	(i) Study of Mixed mesophasee; Typical binary mixtures comprising schiffs bases. (ii) A New homologous series of mesogens and its characteristics : p-(pa-n-Alkoxycinna-moyloxy) benzaldehydes	"Liquid Crystals" Edt. B. Chandrasekhar, Heyden, Verlag (1980) —do—

Name/	Title	Name of the Journal wherein published with month of publication
	(iii) Enantiotropic mixed mesophases Mol. in binary mixtures of monotropic mesogens viz. p-propionoxybenzal-p-chior-caniline & p-propoinoxy-benzal-p-tolulidne, and certain schiffe bases II.	
	(iv) Mesomorphic characteristics of thermotropic mesogens p-p Di-substituted phenyl cinnamates I : p-(p'-n-alkoxyzinnameyloxy) acetophenones.	—do—
30. Dr. J. M. Lohar and U. A. Mashru	(i) Enantictropic mixed mesophases binary mixtures of a monotropic mesogens and certain schiffs bases. (ii) Study of anisotropic phase transitions of some new mesogenic esters : Methyl p-(p'-n-alkoxyzinnameyloxy) benzoates. (iii) Mesomorphic behaviour of some esters : Ethyl-p(p'-n- alkoxy cinnamcyloxy) benzocates.	Liquid Crystals" Edt. S. Chandrasekhar Heyden, Verlag, 1980 Ind. J. of Chemistry, 20 A, Be. 1981 pp. 125. J. of Ind. Chem. Soc. Vol. L VII Sept. 80, pp. 904-908
31. Dr. J. M. Lohar and Jayrang Dave	Synthesis and study of new mesogens I : p-(p-n'-alkoxyoinnamoyloxy) benzylidene p"-toludines.	"Liquid Crystals" S. Chandrasekhar, Heyden, Verlag, (1980)

Name	Title	Name of the Journal wherein Published with month of publication
32. Prof. R. V. Joshi and R. T. Chaudhari	Thermal umine- science of KAR : Th. around Room temp	Japanese Journal of Applied Physics 20, 1981
33. Prof. R. V. Joshi and I. G. Nane	(i) Centres responsible for near Ultraviol at emission in NABRIL Phosphors.	Indian Journal Pune Applied Physics, 1981
	(ii) Complex in Centre heavily doped NaBr tl phosphors.	Z Fuer kript 1981
34. Prof. R. V. Joshi and N. L. Kekani	Centres associated with 410 Kpeak in NaCl. Sr.	Rad. Effects 125, 1980
35. Shri A. K. George, Shri R. A. Vora, and Dr. (Mrs.) R. K. L. Padmini	(i) Investigation of Ultrasonic Valocity and related parameters in liquid crystalline mixtures.	Molecular crystals and Liquid crystals (G.B. : SUA. 60, 297-310 (1980)
	(ii) Ultrasonic studies in Polymerphic smectic liquid crystals.	ACOUSTICA (Germany) 47(2) 149-153 (1981)
36. Shri A. K. George and Dr. R. K. L. Padmini	Ultrasonic absorption in mixed liquid crystals	Journal of ACCOUSTICAL Society of India VII-32-22 (1980)
37. Shri R. A. Varkey and Dr. R. K. L. Padmini	(i) Temperature depen- of younge's modules in lead-Bismithalloys	Journal of Accoustical Society of India VII-32-33 (1980)
	(ii) Investigation of Elastic constants in Bismuth Antimony alloys single crystal	Journal of Accoustical society of Indian VII 21-28 (1980)
	(iii) Ultrasonic attennoa- tion in Bismuth Poly- crystals containing 7, sb. sn and ph impuri- tine	Letter of NUOVO ci- mentto, 28, 447449, (1980)

Sr. No.	Name/s Subject	Title	Name of the Journal wherein published with month of publication
38.	D. P. Patil and Dr. R. K. L. Padmini	Ultrasonic velocity studies indincindiunc Bismuth al- loys.	Journal of Accoustical Society of India VII- 5-11 (1980)
39.	J. R. Rotia and Dr. R. K. L. Padmini	Investigation of Ultrasonic behaviour in cholesterye my- rishate and ethyl P-aninohe- nzoate liquid crystalline- mixtures.	Journal of Accoustical Society of India VIII- 19-28 (1980)

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

Name of the Teacher	Name, Place and Date of the Conference/Seminars	Title of the Paper presented
(1) Shri A. N. Shah (2) Shri M. R. Thakkar (3) Shri N. M. Vasavada (4) Shri S. N. Puntambekar	National Conference on 'Technological options for Sanitation for Developing Countries at S.V.R. Engg. College, Surat, 27-28 Decem- ber, 1980	Design of Rotating Bio- logical contractor for Wastewater Treatment of Small Communities.
(5) Shri J. J. Prajapati	Sixth Congress of the Inter- national Association for Hydraulic Research, New Delhi, Feb. 27, 1981	Model Studies on through flou structuser
6. Dr. S. A. Puranik	(1) National Symposium on Utilization of Agri- cultural and Forest Residence, Chandigarh, September, 26-28, 1980 (2) 23rd Annual Session of Indian Institute of Chemical Engineers, Dec. 17-20, 1980, Delhi. (3) 2 LAWSPSP Sympo- sium Labrients addi- tives wars and Petro-	Actited Carbon from Mass transfer Co-effi- cients by Chemical Te- chniques. Re-Refining of used Ib- ricating oils.

Sr. No.	Name of the Teacher/s	Name, Place and Date of Conference/Seminar	Title of the paper presented
		leum speciality products, ITT, Bombay, 3-4, Jan. 1981.	
7.	Shri V. L. Gadgeel and Shri Donald L. Johnson	18th National Metallurgists Day & 34th A. T. M. IIIM, Baroda, 14th-17th November, 1980	Gas Phase Hydrogen Transport in SAE 4320 Steel.
8.	Shri S. K. Agrawal	—do—	Effect of Sand Treatment on the Behaviour of clay bounded Moulding Sands.
9.	Shri P. J. Roy-Chowdhury	—do—	Production of Iron Powder from Millscale by Graphite Reduction.
10.	Shri N. S. S. Murti and Shri V. Seshadri	—do—	Reduction of Chromite by Carbon.
11.	Shri S. K. Dutta and Shri N. S. S. Murti	—do—	Studies on Effect of Simultaneous Reduction on High Temp. Strength of Iron Oxide Briquettes.
12.	Shri D. K. Basa	—do—	Some Aspects of Surface Finish of Castings.
13.	Shri R. R. Vishwakarama, N. M. Shah and V. L. Gadgeel	—do—	A few case history in failure analysis, (Poster Session Papers)
14.	Dr. K. K. Rao	(i) 21st Annual Conference of Association of Microbiologists of India, Bombay, 31st October to 2nd November, 1980. (ii) 32nd Indian Pharmaceutical Congress, Nagpur, 23-25 Jan. 1981 (accepted for presentation).	(i) The antimicrobial efficiency of some plant essential oils. (ii) Sugar Production from Agricultural and Urban callousic wastes with <i>Fusarium</i> sp.

Sr. No.	Name of the Teacher	Name, Place and Date of Conference/Seminar	Title of the paper presented
			celloulsse. Screening of some Indian Plant essential oils for antimicrobial activity.
15.	Dr. Y. K. Agrawal	Internation symposium on Trace Analysis, Bombay, Feb., 16-19.	Extraction and spectrophotometric Determination of Traces of Antimony in the Environment.
16.	Dr. N. K. Jain	32nd Indian Pharmaceutical Congress Conference, Nagpur, 23-25, Jan., 1981.	(i) Prescriber Dispensing (ii) Qualifications for Pharmaceutical Teachers.
17.	Shri S. M. Khanna	32rd Indian Pharmaceutical Congress, Nagpur 23rd to 25th Jan., 1981.	Spectrophotometric Determination of Dexamethasone.
18.	Dr. J. M. Lohar, Dr. G. H. Patel	(i) Int. Liq. Cryst. Conf. May-June 1980, (Japan) (ii) —do—	Enantiotropic mixed mesophases in binary mixtures of monotropic mesogens viz. p-propinoxybenzal-p-chlorcaniline and p-propionxy benzal-p-toluidine and certain schiffe bases II. Mesomorphic characteristics of thermotropic mesogens p'-p-di-substituted phenyl

Sr. No.	Name of the Teacher/s	Name, Place and Dates of the Conference/Seminar	Title of the paper presented
			cinnamates I : p-(p'-u-alkoxycinnanolyoxy)-acetophenoner.
19.	Dr. J. M. Lohar and Jayrang Dave	—do—	Synthesis and study of new mesogens II : p-(p'-n-alk-xy-cinnamolyoxy) benzylidene-p''-anisidine (1) and p-(p' alk-oxycinnamoy-loxy) benzylid-exanilines.
20.	Dr. J. M. Lohar and U. A. Nasnri	Int. Liq. Cryst. Conf. May-June, 1980 (Japan)	Schiffs base homologous series of new mesogens, p-(p'-n-alkoxycinnanoyloxy) benzylidene-p'-N,N-Dimethylam-inoailines and p-(p'-N-alkokycinnanoyloxy) benzylidene-p'-N,N-diethylaminacailines.
21.	Dr. J. M. Lohar and Jayrang Dave	XII National Conf. on Crystallography Feb. 1981, Hyderabad.	Effect of nitro terminal substituent on the liquid crystalline characteristic of esterogenes : p-(p'n. Alkoxycinnamoyloxy) nitrobenzenex.
22.	Dr. J. M. Lohar and S. S. Yadwadkar	—do—	Liquid crystalline properties of the homologous series : Isopropylp-(p'-n-alkokycinnamoyloxy) benzoates.

(c) Talks given at Different Universities/Institutions :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(1)	Shri R. D. Bhatt	(i) Gujarat Safety Council (ii) Staff Training College, Gujarat State P.W.D., Gandhinagar	Safety Measures in Civil Engg. Construction. Geometric Designs for Highways.
(2)	Prof. O. H. Patel	All India Institute of Local Self Government, Baroda.	Productive Utility of Solid Waste Management.
(3)	Prof. A. N. Shah	All India Institute of Local Self Government, Baroda	Sources and Types of Solid Wastes
(4)	Prof. R. C. Patel	(i) Railway Staff College (ii) Summer School Engg. College, Ahmedabad	Principle of Vibrations. Free Piston Gasities.
(5)	Shri C. G. Gupte	ISTE, Rajkot	New machinery technology.
(6)	Prof. V. L. Gadgeel	Summer School on Selection of Engg. Materials and Failure Analysis, I.I.T., Powai	(1) Hydrogen Damage (2) Corrosion Fatigue May, 1980.
(7)	Dr. S. A. Puranik,	Laxminarayan Inst. of Tech., Nagpur University, May 1980	Recent trends in I.I. extractions.
(8)	Prof. Dipak De	Calcutta	Recent Advances in Weaving Techniques.
(9)	Dr. N. K. Jain	Symposia organised by M. P. Pharmacy Graduation Association, Indore, Nov., 1980	"Development of Drug Industries in M.P."

(d) Participation in Inservice Programmes :

Sr. No.	Name of the Teacher	Program, Place and Dates	Capacity in which participated/Talks given on
(1)	Dr. S. K. Damle	(i) Gujarat Engineering Research Institute, Baroda	Re-"Stresses in Rock Mechanics during Rock Mechanics Method". Workshop which was con-

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated/Talks given on
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		ducted by CERI, Baroda in collaboration with Faculty of Tech. and Engg., M. S. University of Baroda June, 1980	
		(ii) Summer School in Files, Diaphragms and Anchorage conducted by App. Mech. Deptt., Faculty of Tech. and Engg., in collaboration with I.S.T.E., New Delhi in June, 1980	"Finite Element Method Applications."
(2)	Prof. Piyush Parikh	Gujarat Engineering Research Institute, Baroda, during Rock Mechanics Workshop which was conducted by CERI, Baroda in collaboration with Faculty of Tech. and Engg., M. S. University of Baroda in June, 1980	Faults, Earthquakes and Dams.
(3)	Dr. A. V. Shroff	—do—	Laboratory Techniques of Testing Rocks.
(4)	Shri A. K. Shah	Third Quarterly Meeting of State Engineers and Scientists of Instrumentation Cell held in November, 1980	Strain Gauges
(5)	Shri K. R. Byani	Geotechnicals Engg. Lab. of App. Mech. Department of the Faculty of Tech. and Engg., Baroda, during Rock Mechanics Workshop which was conducted by CERI, Baroda	Laboratory talks during testing of rocks.

5. Training and Placement Activities :

Training and Placement Activities and Guidance in the area were being gradually enhanced during the year under report. Some salient features are as follows :—

(i) Practical Training :

A considerable section of pre-final and other students were encouraged and assisted in obtaining practical training at various industrial establishments around Baroda and elsewhere in the country.

296 students were deputed for practical training during summer vacation for a period of approximately six weeks.

29 chemical industries, 22 pharmaceutical industries and research-testing laboratories, 16 mechanical engineering industries, 12 Electrical Engineering industries, 17 electronics industries, 16 metallurgical Engineering based industries and 39 textile industries offered training facilities from a total of 622 industries contacted for the purpose.

In addition, on request, recommendation letters for practical training were issued to a number of students, wishing to arrange training on their own.

(ii) Employment Opportunities :

(a) Campus Interviews :

Representatives of some established companies visited the campus for conducting campus interviews/tests of final year students interested in employment.

In all 16 companies visited the Faculty and conducted interviews of 383 students, spread over 17 days. Students interviewed were selected from much larger section of students who appeared for the tests.

(b) A large number of companies, organizations/laboratories and educational institutions gave publicity to their requirements for biodata of interested students, and communicated for information through the facilities made available under 'Training and placement' activities.

(c) The Indian Navy carried out their preliminary selection of Engineers for entry into Indian Navy under their University Entry Scheme.

(iii) Co-operative Course leading to B.Tech. degree in Mechanical, Electrical and Metallurgical Engineering under the modified pattern, continued during the year under report. Students are usually offered employment, while studying during the last semester, by the training organization.

The Apprenticeship (amended) Act of Government of India encompasses sandwich pattern of course as per provisions laid therein.

During the year under report, there were 11 mechanical, 11 electrical and 6 metallurgical engineering students under the B.Tech. degree course. Six final phase students qualified for the B.Tech. degree in July 1980 in their respective branches (Mech. Elec.).

(iv) Quality Improvement Programme :

Two staff members, one from Electrical and one from Mechanical Engineering Department, were deputed for 3 months training under the above scheme at Jyoti Ltd. Baroda, short term quality improvement sponsored by Western Regional Office, the Ministry of Education, Government of India, Bombay.

(v) Guidance :

Students availed of this facility by discussing their employment/training and related problems and sought guidance in the matter. Their response has been encouraging.

6. Faculty Union Activities :

(i) The Architecture students took part in (National Association of Students of Architecture) NASA of 1981 held at Hyderabad during the month of January, 1981 and they won the prizes as mentioned below :—

- | | |
|---|-----------|
| (1) Society in Transition | 2nd prize |
| (2) Cultural Competition | 2nd prize |
| (3) Sessional Work | 2nd prize |
| (4) Shri J. R. Bhalla Competition for criticism on any architectural building | 3rd prize |

(ii) Students' Chapter has shown during the last year, some films of general and technical interest, conducted tours to various industries in and around Baroda and arranged many technical lectures by eminent professional personalities in various fields of Engineering.

7. Library

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

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

Particulars	Number
(1) Average number of students making use of Library and/or reading room daily	995
(2) Average number of teachers making use of the Library and/or the reading room daily	230
(3) Total number of books issued to students per day	200
(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	Number Bound Periodicals	Cost in Rs.
(1) Books (including) Back number of journals as on 1-4-1980	54,900	8,772	33,80,404
(2) Books written off during the year	69	—	973
(3) Books added during the year upto 31-3-1981	414	578	1,26,900
(4) Books as on 31-3-1981	55,245	9,350	35,06,331

The Library subscribed only 200 journals, 578 bound journals were added during the year.

8. Institutional Consultancy Projects

(1) Completed the Institutional Consultancy Project from the Punjab State Electricity Board for the Net Work Planning for the 5th and 6th Five Year Plans.

(2) Undertaken a New Project from the Punjab State Electricity Board for the Transient Stability Studies, with reference to super Thermal Power Station.

9. Textile and Allied Industries Research Organisation (TAIRO)

(1) Pedal driven Ambar Charkha : TAIRO has designed and developed Pedal-driven Amber Charkha, as per the request of Sharan Madir, where physically handicapped persons are admitted.

The main purpose for development of this Amber Charkha having two sides is to keep 2 persons busy at a time and to get about 1.5 times for production on each Amber Charkha.

Testing Report on the work carried out on Foot-driven.

(2) Testing on Miniature Plant Designed and manufactured by T.A.I.R.O.:

T.A.I.R.O. has tested many sampled on the miniature spinning plant, T.A.I.R.O. also compared the results obtained on the miniature spinning plant with the conventional spinning machines and it has been found that the results obtained on T.A.I.R.O. miniature plant are comparable with conventional machines.

10. Visitors

Visitors	Name	Designation
(1) Two Soviet Scientists	Dr. V. J. Rocher Dr. O. P. Kevdin	The Institute of Chemical Physics, Academy of Sciences (USSR), 9th to 13th December, 1980.
(2) Phulwani of U.S.A.	Mr. Mechel	January, 1981.
(3) City University, London	Dr. L. F. Boswell	January, 1981.
(4) Dr. V. G. Rocher } (5) Dr. O. P. Kevdia }		9 to 13th December, 1980.
		The Institute of Chemical Physics Academic (U.S.S.R.)
(1) Mr. Mechel (U.S.A.)		January, 1981.
(2) Dr. L. F. Boswell		January, 1981.
		City University (London)

CHAPTER XIII—FACULTY OF FINE ARTS

1. Courses of Studies :

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

2. Number of Students :

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

Year/Class	Men	Women	Total
(a) Diploma :			
1st Year	34	9	43
2nd Year	30	6	36
3rd Year	29	10	39
4th Year	19	—	19
Total :	112	25	137
(b) Post Diploma			
Junior	13	2	15
Senior	12	—	12
Total :	25	2	27
(c) Degree :			
1st Year	18	11	29
2nd Year	30	16	46
3rd Year	25	14	39
4th Year	—	—	—
Total :	73	41	114
(d) Post Graduate Degree :			
Junior	21	13	34
Senior	21	12	33
Total :	42	25	67
(e) Ph.D.	5	1	6
Total :	5	1	6
Grand Total :	257	94	351

8 Non Collegiate Students.

3 Staff :

(a) *Present Position* : The staff of the Faculty including the Museology Department consisted of 4 Professors, 7 Readers, 22 Lecturers, 1 Archivist, 1 Taxidermist, 13 Class III and 17 Class IV employees.

(b) *Teachers who left* :

(i) Professor K. G. Subramanyan, Prof. of Painting resigned

(ii) Shri A. P. Gajjar, Reader in Applied Art.

4. Professional Growth of the Staff :

(a) *Published Articles/Papers* :

Sr. No.	Name/s	Title	Name of the Journal wherein published with month of publication
(1)	Prof. Ratan Parimoo	(i) "New Sculpture from Baroda"	Lalitkala Contemporary No. 28 by Central Lalitkala Akademi, New Delhi
		(ii) "Contemporary Art in Gujarat particularly Baroda and Ahmedabad"	Samakaleen Kala Samdarbha Aur Stithi by Lalitkala Akademi, New Delhi 1980

(b) *Talks given at different Universities/Institutions* :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(1)	Shri V. K. Bhatt	Arts & Science College Chhotaudepur. 8.1. 1981.	Indian Art and Culture as interpreted by Shri Aurbindo
(2)	Shri Ramesh Pandya	The School of Arts & Crafts Government of Karnatak Devanagari.	Lecture and Demonstration as Visiting Professor
(3)	Prof. Ratan Parimoo.	The U.P. State Lalitkala Akademi, Lucknow.	Series of three lectures under the Radha Kamal Mukherjee Memorial series on "Ashta Mahapratiharya-Life of Buddha in Indian Sculpture" the month of January, 1981

(c) *Participation in Inservice Programme* :

Sr. No.	Name of the Teacher	Programme, Place and Date/s	Capacity in which participated
(1)	Miss K. G. Patel	(i) Sarvas International Conference at Rangrej, Anadniketan, Ashram, 30-12-1980	Participant
		(ii) Sulekhan Chitrakala competition 13th Youth Festival of Gujarat State at Rajkot, 9th, 10th, & 11th January 1981	Judge
(2)	Shri Ramesh Pandya.	(i) Seminar on the Examination of Art Programme in the State University at S.N.D.T. Women's University, Bombay	Participant
		(ii) Seminar for the Higher Secondary Art Teachers at Nargol	Resource person
		(iii) At 17th The Annual Art Exhibition of Valsad Dist. Chitra Shikshak Sangh at Dungri	Chief Guest
		(iv) A Music College play (i) Dhara Gurjari 2 and (ii) A Doll's House for the Shakespeare Society, M. S. University, Baroda	Designer
(3)	Shri Jyoti Bhatt	(i) Textbook (Fine Arts) Reviewing Committee under National Council for Educational Research, New Delhi.	Member

Name of the Teacher	Programme, Place and Date/s	Capacity in which participated
	(ii) The Committee to recommend Grant and Financial Help to Artists and writers whose Contribution is worth recognition, Department of Education Gujarat State, 1980-81	Member
	(iii) Artist's Camp, Kashmir, June 1980.	Participant
	(iv) Annual Art Exhibition at Akademy of Art and Culture, Jammu and Kashmir, 1980.	Member of Judging Committee
(4) Smt. Jyotsna J. Bhatt	(i) Seminar Cum-Workshop on Ceramics, Pottery and its teaching.	Participant
	(ii) In Ceramics Workshop at Garhi Art Studies, Lalitkala Akademy, New Delhi, Slide show at the Workshop.	Conductor
(5) Prof. Jeram Patel	(i) National Institute of Design, Ahmedabad.	Conducted two weeks teaching Programme in Illustration.
	(ii) Attended 1st National Seminar on the subject of "Design, Education", as a invited delegate, I.I.T. Bombay.	Invitee
	(iii) Gujarat State Lalitkala Akademy, Ahmedabad.	Member.

(d) National/State Awards :

Name of the Teacher	Description of the Award
Prof. Jeram Patel.	State award in Graphics of the Gujarat State Lalitkala Akademy, Ahmedabad.

(e) Exhibition by the Staff Member :

(1) One man show of own paintings was held at Faculty of Fine Arts, M. S. University of Baroda, Contemporary Art Gallery, Ahmedabad and displayed the Paintings at the Indore School of Art, Indore, M. P. by Shri Ramesh M. Pandya, Lecturer in Painting.

(2) One man show of Drawings & Paintings was held at Jahangir Gallery of Art, Bombay during 25th April 1980 by Shri Vinay P. Trivedi, Lecturer in Applied Arts.

(3) Shri V. P. Trivedi, Lecturer in Applied Arts participated in the National as well as in the State Exhibition arranged by Lalit Kala Akademy, New Delhi and Lalit Kala Akademy, Gujarat State.

(4) One man show of Pottery and Slide Show was held at the Workshop by Smt. Jyotsna J. Bhatt, Lecturer in Pottery.

5. Library :

The following statement gives the details of the acquisitions of the Library during the year 1980-81.

Particulars	Number
1. Average number of students making use of the Library/and/or the Reading-Room daily.	92
2. Average number of teachers making use of the Library and/or the Reading-Room daily.	9
3. Total number of books issued to students during the year.	3586
4. Total number of books issued to teachers during the year.	1932

The following are the figures about the stock and the expenditure on the Library and/or the Reading-Room.

Sr. No.	Particulars	Number	Cost in Rs.
1.	Books (including back numbers of Journals as on 1-4-1980)	6855	1,77,454-40
2.	Books added during the year (including Gift books.)	77	—
3.	Books as on 31-3-1981.	6932	6,433-74
4.	Journals subscribed to during the year.	13	4,118-80
5.	Amount spent on binding during the year.	—	522-80
6.	Total amount spent for Library and/or Reading-Room during the year.	—	1,82,849-77

CHAPTER XIV—FACULTY OF HOME SCIENCE

1. Courses of Studies

- (a) The courses of studies remained the same as in the previous year.
- (b) A two year under-graduate Diploma in Child Development was introduced with an idea of creating a new cadre of Child Development workers.
- (c) The conceptual scheme for instituting an M.Sc. program in Early Childhood Education has also been approved by the Board of Studies.

2. Number of Students

Year/Class	Men	Women	Total
1. First Year B.Sc.	—	200	200
2. Second Year B.Sc.	—	131	131
3. Third Year B.Sc.	—	75	75
4. Final Year B.Sc.	—	166	166
5. Jr. M.Sc.	—	71	71
6. Sr. M.Sc.	1	77	78
7. Diploma in Pre-School Education	—	29	29
8. Undergraduate Diploma in Child Development	—	18	18
9. Ph.D.	—	26	26
Total :	1	793	794

3. Staff

(a) Present position:

The staff of the Faculty including Chetan Balwadi consisted of: 2 Professors, 7 Readers, 35 Lecturers, 1 Teacher (Balwadi C. D.), 19 Class III and 32 Class IV employees.

(b) New Appointments:

- (1) Kum. Rasna Chothia Lecturer in Clothing and Textile
- (2) Dr. (Mrs.) Vibha Munshi Lecturer in Chemistry
- (3) Kum. Anita Thomas Lecturer in Education and Extension
- (4) Smt. Uma Joshi Lecturer in Education and Extension

(c) Teachers upgraded to Higher Positions:

- (1) Smt. Saroj Patel Reader in Clothing and Textiles
(Lecturer in Clothing and Textiles)

- (d) Teachers who left the University:
- (1) Kum. Rasna Chothia Lecturer in Clothing and Textiles
—Resigned

4. Professional Growth of the Staff:

(a) Published Articles/Papers:

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
Child Development:			
(1)	Amita Verma	(i) Family life Education for out of school Urban Adolescent girls	(i) Link, News-letter, AHEA July-August, 1980
		(ii) Community Development through Early Interventions	(ii) Proceedings of the World Congress of OMEP, July 29th-August 2nd, 1980
(2)	T. S. Saraswathi and Miss Jayanthi Sundersan	Perceived Maternal Disciplinary and their relation to Development of Moral Judgement	International Journal of Behavioural Development, 1980 3.91-104.
(3)	T. S. Saraswathi Miss Jayanthi Sundersan and Miss K. Saxana	Age, Sex and Social Class Dimensions in the Development of Moral Judgement in Indian Children between 10-15 years	The child in the Family. Preventive child. Psychiatry in an age of transition Vol. 6, year book of International Association for Child Psychiatry and Professions Wiley, 1980.
(4)	Prema Sharma T. S. Saraswathi Miss S. Gir.	(i) Development of Social Competence. The schools obligation to the children and Adolescents.	(i) Quest in Education 1980, XVII, 217-227.
		(ii) Role of Parents and Teachers in promoting social competence.	(ii) Child Psychiatry Quarterly 1980.

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
(5)	Veena Mistry	Teaching Encounters of the Third Kind.	Indian Journal of Education November, 1980.
(6)	Jyoti Parikh	(i) A program for parents.	(i) The Primary teacher, Vol. 6, No.1, January, 1981.
		(ii) A study of Nonformal children in relation to home environment and special care program.	(ii) The Educational Review July, 1980.
<i>Clothing and Textiles :</i>			
(7)	B. N. Chaukar	(i) Identification of Amino formaldehyde finishes by chromatography	(i) Indian Textile Journal Vol. 91 (3) 1980
		(ii) A study of changing trends in advertisements of Clothing and Textiles	(ii) Indian Journal of Home Science Vol. 13 (1-3) 1980
(8)	Tara Gopaldas	A Nutritional status study on privileged-adolescent Gujarati Boys	Ind. J. Med. Res, 73: 188 (Feb-), 1981
(9)	Tara Gopaldas Shubada Gautam and Vinita Saxena	(i) The Mid-Day-Meal programme : Its Efficiency and Impact on child Beneficiaries (5-13 yrs)	(i) Proceedings Asian Congress, Oct. 1980 (abs) in Nutrition
		(ii) An exploratory study to investigate the Impact of selected health Inputs on Mid-Day-Meal Programme Beneficiaries (5-13 yrs.)	(ii) Proceedings 3rd Asian Congress, Oct. 1980 (bs) in Nutrition
(10)	Sunder Radha Rajbhanderi	Diet intake of pica in pregnant women of Kathmandu Valley, Nepal	Proceedings 3rd Asian Congress in Nutrition Oct., 1980

Sr. No.	Name of the Teacher	Title	Name of the Journal wherein published with month of publication
(11)	Sunder Gujral Anita Chawdhari	Effect of snack Programme on Nutritional status of Pre-school children	The Ind. J. Home Science Vol. 14 No. 1, March 1981
(12)	Bubu Joshi Sunder Gujral	Dietary fat and serum lipid profile in I schaemic Heart disease	J. Nep. Med. Assoc. 19 : 15-20, 1981
<i>Home Management :</i>			
(13)	Nalini Ogale	Trends in Home, Management Research	Proceedings of the 14th Biennial Conference of Home Science Association of India 1980
(14)	Kamla Srinivasan	A study of credit practices and determinants of credit financing of Households in Udaipur city	The Indian Journal of Home Science Vol. 13, No. 1, 2 and 3, 1980
<i>Education and Extension :</i>			
(15)	A Chandra	What is Home Science ?	Souvenir of the Post-graduate department of Home Science at University of Mysore, 1980
(16)	K. Paralikar	Developmental Programmes and Women of Assam	The M. S. University Journal, 1980-81
<i>(b) Published Books and Brochures :</i>			

Sr. No.	Name of the Author/s	Name of the Books	Name of the Publishers
<i>Child Development :</i>			
(1)	Veena Mistry Geeta Dhawan	Learning Activities for children. Developing Concepts of shape and size-A Manual	M. S. Uni., Baroda
		(i) Gram Jeevan Ane Gruh Vignan	(i) Oriental Institute, M. S. University, Baroda

Sr. No.	Name of the Author/s	Name of the Books	Name of the Publishers
Foods and Nutrition :			
(2)	Mrs. J. B. Patel	Nutrition, Health and Environmental Sanitation. Text Books for Class III, IV, V, Teacher's guide for Class I-V (In English)	Chandulal K. Soni, Modern Printers, Ahmedabad
(b) Project Reports			
(1)	Department of Child Development	Shalanoo Pahelu Pagathiyu Chadata Pahels	Child Development Department and Baroda Municipal Corporation
(2)	Department of Child Development	Shaleya Purva Taiyari	Child Development Department and Baroda Municipal Corporation
(3)	Amita Verma Yogini Pathak Indira Mallya	The Village Placement Scheme of the Post graduate Diploma in Preschool Education, 1980	NCERT, Delhi
(4)	Aruna Dave	Pre Mathematics experiences for young children	Department of Child Development, M. S. University, Baroda
(5)	Rajni Gupta Veena Mistry	Comprehensive program for Rediness for First Grade	Department of Child Development, M. S. University, Baroda.
Sr. No.	Name of the Teacher	Title of the Report	Sponsor
(1)	Amita Verma	Population Education and Family Welfare in Home Science Institution in India	Sponsored by the Family Planning Association of India, Bombay. The Home Science Association of India and supported by the Family Planning of India
(2)	Amita Verma Chandra Agnihotri	Children's Services and sources of Traditional child care	UNICEF

Sr. No.	Name of the Teacher	Title of the Report	Sponsor
(3)	Amita Verma Veena Mistry Neena Kapoor	Readiness for Ist Grade Experiences in Inservice Teacher Education program Planning and Implementation in NPSS schools of Baroda	Baroda Municipal Corporation and Department of Child Development
(4)	Parul Dave	Tribal Project on Child Care	Adi Jati Peta Vistar Yojna, Government of Gujarat, Dahod, Panchmahal
4 (c) Papers presented at All India Level Seminars, Conferences etc :			
Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
Child Development :			
(1)	Amita Verma T. S. Saraswathi	INDO-US Seminar on Effects of Deprivation in Early Childhood on Learning. India International Centre New Delhi, 12th-16th May 1980	Towards an Integrated program of Interventions: Our experience in the Seventies Researches and field projects
(2)	Amita Verma	(i) Congress of the International of Home Economics, Manilla, Phillipines 20th-25th July, 1980 (ii) World Congress of OMEP, Quebec, Canada, 29th July to 2nd August, 1980	(i) Family life education for urban Adolescent out of school girls (ii) Community Development through Early childhood Interventions. The Baroda experience
(3)	T. S. Saraswathi Prema Sharma	Sixth Biennial Conference of the International Association of Cross Cultural Psychology. Bhubaneshwar 28th Dec. 1980 to 1st Jan. 1981	Personality characteristics of competent children Sex and social class comparisons
(4)	Amita Verma	The Physician and Population change. Ahmedabad November, 1980	Psycho-sexual Education for Adolescents

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
(5)	Yogini Pathak	Forum on Home Science and Nutrition of the Indian Science Congress Assoc. Varanasi 3rd-7th Jan. 1981	Changes brought about by Science and Technology in the Homes in India since Independence
(6)	Prerana Mohite	Researches in Early Child Development, NCERT, Delhi 11th-13th March, 1981	Researches and Future Directions in Early Childhood Education
(7)	Nirmala Misra Kiran Parekh	Fifteenth Biennial Conference of the Home Science Asso. of India, S. V. U. Tirupathi, 10th-13th December, 1980	Community based approach in Home Science-A play Centre for low Socio-economic group of children
(8)	B. Balakrishnaiah	Home Science Association of India 15th Biennial Conference 10th to 13th Dec. 1980 Tirupati	A study Resistant of certain fire Resardent finishes on cellulose and synthetic furnishing material
(9)	Sunanda Marathe	Home Science Association of India 15th Biennial Conference 10th to 13th Dec. 1980 Trupati	Preferences of Mothers for one Piece garments designed and constructed for children of one to two years of age
(10)	Tara Gopaldas	(i) National Workshop on Nutrition Education, Communication Materials Media and Agencies, organized by Indian Council of Agricultural Research and the National Institute of Nutritional Hyderabad and UNICEF, July 1980	Current Status of Nutrition Education and Agencies involved in Nutrition Education

Sr. No.	Name of the Teacher	Name, Place and Dates, of the Conference/Seminar	Title of the Paper presented
		(ii) National Conference on Evaluation of Primary Health Care Programme organized by Indian Council of Medical Research, Delhi, April, 1981	Project Poshak Major : findings evaluation techniques
		(iii) Regional Workshop on special Nutrition programme organized by the Ministry of Social Welfare and the National Institute of Public Corporation and Child Development (NPCCD) Chandigarh, November, 1980	Training and Orientation of SNP functionaries and training Research in Nutrition Health Education for the SNP functionaries
		(iv) XV Annual Convention of Indian Dietetic Association, Baroda, Jan. 1981	The importance of dietitians in Gujarat State
(11)	Sunder Gujaral	(i) 3rd Congress of Parasitology, Hissar, April, 1980	Lipid profile in a celaynicum infection
		(ii) do	Lipid profile of golden hamsters infected and treated for liver amoebiasis
		(iii) National Workshop on Role of fibre in Nutrition, Hissar, Nov. 1980	Dietary pectin and cholesteralemic
(12)	J. B. Patel	Technical working group meeting on curriculum development in Health and Nutrition Education (NCERT) Sept. 80	Education System in Gujarat

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paer presente
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Home Management :

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| (13) | Nalini Ogale | " XVth Biennial Conference of the Home Science Association of India " at S. V. University, Tirupati, 10th to 13th Dec. 1980 | " Slum Development and their Management " |
| (14) | Rachel George | " XV Biennial Conference of the Home Science Association of India " at S. V. University, Tirupati, 10th to 12th Dec., 1980 | " Time use pattern of Home-makers " |

(d) Talks given at different Universities/Institutions :

Sr. No.	Name of the Teacher	University/ Institution	Subject of the Lecture
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Child Development :

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|-----|--------------|----------------|--|
| (1) | Veena Mistry | Junior Chamber | Developmental Stages and Needs of Children. Role of Parents and Adults |
|-----|--------------|----------------|--|

4. (e) Participation in Inservice Programme :

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
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Child Development :

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|-----|-------------|--|----------------------|
| (1) | Amita Verma | (i) Workshop on Integrating Home Economics, Family Planning Los Banos, 17th-22nd May, 1980. | Delegate |
| (2) | Amita Verma | XVth Biennial Conference of the Home Science Association of India, S.V.U., Tirupathi, 10th-13th December, 1980 | Chairman and Speaker |

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
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|-----|--------------|---|----------------------------------|
| (3) | Veena Mistry | (i) UNICEF Regional Seminar on Area Development in Social Inputs, Bombay, 12th-13th August, 1980 | Delegate |
| | | (ii) XVIth Annual Conference of the IAPE, Ahmedabad 27th-29th December, 1980 | Panel Member and Resource Person |
| | | (iii) Inservice Teacher Training Program for Teachers of Navrachana School, Baroda, 1980 | Joint Organizer |
| | | (iv) Inservice Teacher Training Program for NPSS Schools, Readiness for 1st grade, Department of Child Development, M. S. University, Baroda, 4th-9th August, 1980. | Co-ordinator and Resource Person |
| | | (v) Seminar on Evaluating Children's Performance 8th June, 1980, Navrachana School, Baroda | Invitee |
| | | (vi) Trends in teaching of Social Studies, 14th June, 1980, Navrachana School, Baroda. | Invitee |
| (4) | Kiran Parikh | (i) XVIth Annual Conference of the IAPE, Ahmedabad, 27th-29th December, 1980 | Delegate |

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which Participatel
		(ii) Inservice Teacher Training Program for N.P.S.S. Schools-Readiness for Ist Grade Dept. of Child Development, M. S. University, Baroda, 4th-9th August, 1980	Joint Organizer
		(iii) Workshop on Pre Mathematics Experiences for young children, Deptt. of Child Development, M. S. University, 25th Con-venor, 28th April, 1980	Resource Person
		(iv) Workshop on Educa-tion Through Arts, Art Studio, M S. Univer-sity, Baroda, 27th-29th March, 1981	
(5)	Yogini Pathak	(i) Inservice teacher Train-ing Program for NPSS Schools Readiness for Ist grade, Deptt. of Child Development, M. S. University, Baroda 4th-9th August, 1980	Joint Organiser
		(ii) Workshop on Pre Ma-thematics experience for young children, Deptt. of Child Deve-lopment, M.S. Univer-sity, Baroda, 15th-28th April, 1980	Resource Person

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participatel
		(iii) Workshop on Educa-tion through Arts, Art Studio, M. S. Univer-sity Baroda, 27th-29th March, 1981	Joint Organiser
(6)	Jyoti Parikh	XVIth Annual Conference of the IAPE, Ahmedabad 27th-29th Dec. 1980	Delegate
(7)	Aruna Dave	(i) Workshop on Pre Maths and Science V.T.K. In-stitute Samiala, Sept. 1980	Jt. Organizer and Re-source Person
		(ii) XVIth Annual Confer-ence of the IAPE, Ahmedabad 27th-29th Dec. 1980	Delegate
		(iii) Inservice teacher train-ing Program for NPSS Schools, Readiness for 1st Grade, Dept. of Child Development, M. S. University, Baroda 4th-9th August, 1980	Resource Person
		(iv) Workshop on Pre Ma-thematics Experiences for young Children, Deptt. of Child Deve-lopment, M. S. Univer-sity, Baroda, 15th-28th April, 1980	Organizer
		(v) Workshop on Educa-tion through Art Stu-dio, M. S. University, Baroda 27th-29th March, 1981	Joint Organizer

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
(8)	Indira Mallya	(i) Workshop for Trainers to Assess Training Needs of Field Level Workers, Gujarat, Vidyapith, Ahmedabad 24th-26th October, 1980	Participant
		(ii) Workshon on Pre Mathematics Experience for young children Deptt. of Child Development, M. S. University, Baroda 15th-28th April, 1980	Resource Person
		(iii) Workshop on Education Through Arts Studio, M. S. University, Baroda 27th-29th March, 1981	Participant
(9)	Prerana Mohite	Seminar on Researches in Early Child Development, NCERT, Child Study Unit, 11th-19th March, 1981	Invitee
(10)	Nirmala Misra	(i) XVth Biaennial Conference of the Home Science Association of India S.V.U. Tirupathi, 10th-13th Dec. 1980	Delegate
		(ii) XVIth Annual Conference of the IAPE, Ahmedabad, 27th-29th Dec., 1980	Resource Delegate

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
		(iii) Inservice teacher training program for NPSS Schools Readiness for Ist Grade, Department of Child Development, M. S. University, Baroda, 4th-9th August, 1980	Person
		(iv) Workshop on Pre Mathematics Experience, for young children, Dept. of Child Development, M. S. University, Baroda, 15th-28th April, 1980	Resource Person
		(v) Workshop on Education Through Art, Arts Studio, M.S. University, Baroda, 27th-29th March, 1281	Joint Organiser
(11)	Dropadi Bhagia	(i) Inservice teacher training Program for NPSS Schools Readiness for Ist Grade, Deptt. of Child Development, M. S. University, Baroda, 4th-9th August, 1980	Resource Person
		(ii) Workshop on Pre Mathematics Experiences for young children, Dept. of Child Development, M.S. University, Baroda, 15th-28th April 1980	Resource Person

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
		(iii) Workshop on Education through Art, Arts Studio, M.S. University, Baroda, 27th-29th March, 1981	Joint Organiser
		(iv) XVIth Annual Conference of the IAPE, Ahmedabad, 27th-29th December, 1980	Delegate
(12)	Miss Amita Fozber	(i) XVIth Annual Conference of the IAPE, Ahmedabad, 27th-29th Dec., 1980.	Delegate
		(ii) Inservice Teacher Training Programme for NPSS Schools Readiness for 1st Grade, Dept. of Child Development, M.S. University, Baroda, 4th-9th August, 1980	Resource Person
		(iii) Workshop on Pre Mathematics Experiences for young children Dept. of Child Dev., M. S. University, Baroda, 15th-28th April, 1980	Resource Person
		(iv) Workshop on Education through Art, Arts Studio, M.S. University, Baroda 27th to 29th March, 1981	Participant
(13)	Sarla George	Workshop on Education through Art, Arts Studio M. S. University, Baroda, 27th to 29th March, 1981	Participant

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
(14)	Neena Kapoor	(i) XVIth Annual Conference of the IAPE, Ahmedabad, 27th-29th December, 1980	Delegate
		(ii) Inservice Teacher Training Program for NPSS Schools-Readiness for 1st Grade, Dept. of Child Development, M. S. University, Baroda, 4th-9th August, 1980	Resource Person
		(iii) Workshop on Education through Art, Arts Studio, M. S. University, Baroda, 27th to 29th March, 1981	Participant
(15)	Rupa Patel	Inservice Teacher Training Program for NPSS Schools Readiness for 1st Grade, Dept. of Child Development, M. S. University, Baroda, 4th-9th August, 1980	Resource Person
Foods and Nutrition :			
(16)	Tara Gopaldas	Annual Convention of Indian Dietetic Association, Baroda, January, 1981	Organiser (President)
(17)	Vibha Munshi	Seminar on Higher Education Baroda, August, 1980	Participant
(18)	J. B. Patel	Annual Convention of Indian Dietetic Association, Baroda, January, 1981	Committee Member
(19)	Sunder Gujaral	Annual Convention of Indian Dietetic Association, Baroda, January, 1981	Committee Member (Jt. Sec.)

Sr. No	Name of the Teacher	Programme, Place and Date	Capacity in which participated
(20)	S. Seshadri	(i) Course on Research Methodology, Baroda, August, 1980	Participant
		(ii) Annual Convention of Indian Dietetic Association, Baroda, Jan. 1981	Committee Member
(21)	U. Patel	Annual Convention of Indian Dietetic Association, Baroda, Jan. 1981	Delegate Committee Member

(f) Other Recognition :

Name of the Teacher	Description of the Award
(i) Staff :	
Tara Gopaldas	Temporary Adviser to the Regional Director, SEARO, WHO, November, 1980
(ii) Students :	
(1) Shubhada Gautam (Ph D. student)	J. N. Bose Medal for the best Nutrition Project Report (IDA)
(2) Sandhya Shah	" Goenka Medal " for the best paper on Domiciliary Dietetic Care (IDA)
(3) Shubhra Sachan	Presidents Award for the best poster for " Nutrition Education for Antenatal Care " (IDA)

5. Special Activities

Child Development :

(1) Innovative Program in Chetan Balwadi :

The Balwadi (Departmental Laboratory Nursery School) has added a new dimension to its program with the integration of Exceptional children (from the play centre for Exceptional Children in the Department) with the normal children.

(2) Involvement with the Baroda Municipal Corporation :

The department worked closely with the BMC in the field of Early Childhood Education. Workshops for teachers, publishing material and conducting action research were the notable activities for this year.

(3) Involvement with the Sardar Vallabhbhai Planetorium, Baroda :

The Department has agreed to provide consultation to the Director of the Baroda Planetorium for conducting programs for children and three meetings have been held during February-April, 1981.

(4) Involvement with the Balbhavan Society, Baroda :

The Department has been closely involved in the Balbhavan activities like assisting in organizing workshops, arranging exhibitions etc.

(5) Involvement in the International Year of Disabled Persons, 1981 :

Dr. Jyoti Parikh is representing the department for initiating activities at the faculty and city level for the welfare of developmentally handicapped children. One of the initial outcomes is a city level parent association for the welfare of exceptional children.

(6) Involvement in Committees outside the Faculty :

- (1) Prof. Amita Verma :
 - (a) Appointed on the Educational Research Innovation Committee of the NCERT.
 - (b) Appointed on the Baroda ICDS Project Review Committee.
 - (c) Appointed on the Syllabus Committee of ICAR Competitive Exams.
 - (d) Appointed on the Experts group on Pre-school Education, Ministry of Education for the 6th Five Year Plan.
 - (e) Nominated Vice-President of the Gujarat Balkalyan Sangh and the Indian Association for Pre-school Education.
- (2) Dr. T. S. Saraswathi :

Reviewed research proposals for ICSSR and research articles for Home Science Journal.
- (3) Dr. Veena Mistry :

Attended the Accreditation Committee meeting at Vallabh Vidyanagar University as expert for Accreditation of the Child Development Department.

7. Regular Seminar :

Child Development :

The department conducted regular weekly Seminars on various Research Projects which were attended by the department teachers, Ph.D. and M.Sc. students and experts in related fields.

CHAPTER XV—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 the students enrolled during the year 1980-81 was as under:

Class	Men	Women	Total
(1) Master of Social Work-Juniors	19	26	45
(2) Master of Social Work-Seniors	23	17	40
(3) Ph.D. in Social Work	—	1	1
(4) Post-Graduate Diploma in Industrial Relations & Personnel Management	20	2	22
Total	62	46	108

3. Staff

(c) Present Position :

The staff of the Faculty consisted of 1 Professor, 3 Readers, 7 Lecturers, 9 class III and 7 Class IV employees.

(b) New Appointments : Dr. Promila Maitra Lecturer

5. Professional Growth of the Staff

(a) Published Articles/Papers :

Name/s	Title	Name of the Journal wherein published with month of publication
(1) Mr. S. B. Saxena	Value conflict perspective	Social Work Review, Faculty of Social Work, M. S. University, Baroda, 1980-81

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

Name of the Teacher	Name, Place & Dates of the Conference/Seminar	Title of the paper presented
1	2	3
(1) Mr. K. M. Sharma	(i) National Institute of Public Co-operation & Child Development at New Delhi from 8/9th Jan. 1981.	(i) Public Co-operation in Integrated Child Development Services.

Name of the Teacher	Name, Place & Dates of the Conference/Seminar	Title of the paper presented
1	2	3
	(ii) International Association of Schools of Social Work at Indonesia during July, 1980.	(ii) Training of Para Social Workers Implications for Social Welfare Educations and Practice. (In absentia)
(2) Smt. Varsha Anjaria	First Afro-Asian Conference on Burns organized by International Society for Burn Injuries and Burns Associations of India. Jan, 14, 15, 16, 1981 Bombay.	Burns : A Psychosocial perspective (Education for safer life styles)
(3) Shri A. S. Navale	"Prospects and Problems of NSS" organised by Cochin University, Kerala from 20-21 June, 1980	Programme development in NSS
	(c) Participation in Inservice Programme :	
(1) Shri I. P. Shelat	(i) Seminar on "National Integration" organised by Antar Bharti, Poona from 25th to 27th July, 1980	Participant
	(ii) Seminar on "Field Work Development" organised by Delhi School of Social Work, Delhi from 23rd to 28th March, 1981	Participant
(2) Shri S. B. Saxena	Six-week inservice training programme for Urban Community Development Organizers and Project Officers during 17-11-80 to 27-12-80 sponsored by Directorate of Municipalities, Govt. of	Coordinator and organizer

Name of the Teacher	Name, Place & Dates of the Conference/Seminar	Title of the paper presented
1	2	3
(3) Shri A. S. Navale	Gujarat, Ahmedabad, at Faculty of Social Work, M.S. University Baroda.	
	(i) Social Work Education in Eighty organised by Post Graduate Institute of Social Work, Kalamassery, Kerala. 16th to 19th June, 80.	Participant
	(ii) NSS Inter University Programme of Golden Jubilee Celebrations of Dandi Satyagrah at South Gujarat University, Surat 24 May, 1980.	Resource Person
	(iii) Seminar on "Population Education" organised by Family Planning Association of India at Gujarat University, A'bad, 28th June '80.	Participant
	(iv) Meeting of the Programme coordinators in Gujarat at Agriculture University Campus, Anand on 24th Sept. '80.	Participant
	(v) Meeting of the Programme Coordinators in Gujarat at Ahmedabad on 3rd November, 1980.	Participant
	(vi) Seminar on Adult Education organised by Adult Education Association of India at Ahmedabad on 4th November, 1981.	Participant
(vii) Youth for Rural Reconstruction Campaign meeting at Ahmedabad, 30th March, 1981.	Participant	

5. Library :

The Faculty has a separate Library which is maintained from the Grant received from the University for the purpose.

The University has sanctioned a recurring grant of Rs. 2,000/- for subscription to periodicals and Rs. 2500/- for books.

Sr. No.	Books including Bound Periodicals	Pamphlets	Total value in Rs.
(1)	Number at the beginning of the year.	2525	1,37,082-76
(2)	Number added during the year.	—	3,488-24
(3)	Number remaining at the end of the year.	—	—
	Total	2,525	1,40,571

Periodicals :

The total No. of periodicals subscribed by the Library during the year was 20.

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 Library :

(1) Daily Average Number of Readers visiting the Library	: 90
(2) Average Number of Books issued for home reading	: 115
(3) Average Number of teachers visiting the Library	: 14
(4) Average Number of Books issued per day for Reference	: 100

6. Important Events :

1. U.C.D. Programme:

A Programme for Urban Community Development Training was organized, from 17-11-80 to 28-12-80 at the faculty sponsored by the Directorate of Municipalities, Ahmedabad, Eighteen trainees from various Municipalities in the State of Gujarat and eight trainees from Baroda Municipal Corporation sent their trainees to participate in this Programme.

2. Child Guidance Clinic :

Faculty of Social work and Indian Council of Social Welfare established a Child Guidance Clinic in 1973 with a view to providing field work training to

students and services to emotionally disturbed children. The services are carried out with the help of a team of experts including a Psychiatrist, clinical psychologist, a speech therapist, and a social worker. So far, 350 children have been treated in this clinic. The services have also been developed in the area of learning disabilities.

Behavioural and emotional problems of children are taken care for sounder growth and development. The clinic helps parents also for scientific way of socialization, Psychogenic factors and social pathology have also been emphasized in guiding problem children's family members. Play Therapy and counselling help a lot of those who are buffeted with socio-emotional problems.

Work on the Directory of Social Welfare Agencies in Vadodara City is in progress.

A joint case conference on child guidance was arranged in collaboration with other joint clinics in city, I.P.C.L. School was the host.

3. National Service Scheme :

The responsibility of the implementation of National Service Scheme programme of the M. S University of Baroda is given to the Faculty of Social Work. The Faculty is now a recognized organization for planning and executing social service projects for the involvement of University youth in education through community service.

7. Visitors :

Sr. No.	Name of the Visitor	Date of Visit
(1)	Dr. (Miss) A. S. Desai, Vice Principal, College of Social Work, Nirmala Niketan, Bombay.	10-9-80
(2)	Prof. J. J. Panakal, Tata Institute of Social Sciences, Deonar, Bombay.	23-10-80
(3)	Prof. K. N. George, Director, Madras School of Social Work, Madras.	23-10-80
(4)	Mr. Chhote Nayan Sharma, Pondichery.	9-1-81
(5)	Prof. V. Gopalan, Visiting Professor, Tata Institute, Bombay.	28-1-81
(6)	Mrs. Gulshan A., Mrs. Shantu Watt, Social Workers from U.K.	

CHAPTER XVI—FACULTY OF LAW

1. Courses of Studies

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

(b) 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 Lawyer's Chambers and Court has been prescribed. Written home assignments in Drafting and Viva-Voce Test have been incorporated as part of the final University Examination. This course has been recommended as a Model for other Universities to follow.

2. Number of Students

Class	Men	Women	Total
(i) Degree Courses :			
(a) 1st Semester LL.B. (General)	481	62	543
(b) 3rd Semester LL.B. Course	147	20	167
(c) 5th Semester LL.B. Course	95	10	105
Total :	723	92	815
(ii) Post-graduate Diplomas :			
(a) D.T.P.	146	11	157
(b) D.L.P.	133	12	145
Total :	279	23	302
(iii) Post-graduate Degrees :			
(a) LL.M. Part I	35	2	37
(b) LL.M. Part II	10	2	12
Total :	45	4	49
(iv) Ph.D. :	1	—	1
Grand Total :	1,048	119	1,167

3. Staff

During the year, staff consisted of one Professor, four Lecturers, five Class III and four Class IV employees.

4. Professional Growth of the Staff

Publications by H. C. Dholakia,

(a) *Articles :*

- (i) Implementation of Human Rights through Regional Arrangements International Law Association (Volume on Human Rights)
- (ii) Law of Contempt in India Journal of Comparative Law.
- (iii) Lokpal : A Comparative View. Journal of the Bar Council of India

(b) *Books :*

- (i) Right to Freedom of Speech and Expression in India. The M. S. University of Baroda.
- (ii) Principles of Legislation, Drafting and Interpretation University Granth Nirman Board, Gujarat State.

(c) *Professional Recognition :*

- (i) Professor H. C. Dholakia, has been appointed Member of the University of Granth Nirman Board, Gujarat State and its Governing Council.
- (ii) Professor H. C. Dholakia has been elected to the Governing Council of the Indian Law Institute, New Delhi for a term of three years.
- (iii) Professor H. C. Dholakia, was invited to work as an Expert for the U.G.C. Workshop on Jurisprudence for Teachers for the western region.

5. Visitors

Name and Designation	Subject of the Lecture
Shri Harubhai Mehta, Central Govt. Counsel and Advocate, Gujarat High Court, Ahmedabad	Legal Aid

CHAPTER XVII—ORIENTAL INSTITUTE

1. The main work of the Institute is research and publication of important unpublished works on all subjects related to indology. In the year 1949, when the Institution was taken over by the University, it had 109 volumes in the Gaekwad's Oriental Series and 516 works in other Series. At the close of the year of report, the number of publications stood at 169 in the Gaekwad's Oriental Series and 621 other books in other Series. Two works were reprinted in the Gaekwad's Oriental Series during the year.

The publications are under the following Series :

- (1) Gaekwad's Oriental Series, (2) M. S. University Research Series, (3) M. S. University Oriental Series, (4) M. S. Memorial Lecture Series, (5) Shri Sayaji Sahityamala, (6) Shri Sayaji Gramvikasamala, (7) Shri Sayaji Balajnanamala, (8) Shri Shishujnanamala, (9) Matushri Jamnabai Smaraka Granthamala.

Moreover, the following two quarterly Research Journals are being published:

- (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 Post-graduate students in Sanskrit.

In 1963, Prakrit was introduced as a Subordinate subject at B.A. and M.A. levels and Shri J. P. Thaker, Deputy Director of this Institute has been teaching Prakrit since then at Post-graduate level.

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) Published Articles/Papers :

Sr. No.	Name/s	Title	Name of the Journal wherein published with month of Publication
(1)	Prof. A. N. Jani	(i) भगवान दत्तात्रेयना स्वरूपं आध्यात्मिक रहस्य	'Nareshwar-no Nad', Feb. 1981
		(ii) भगवान दत्तात्रेयना स्वरूपं आध्यात्मिक रहस्य	'Sri-Ranga-Darshana', Feb. 1981
		(iii) अथर्ववेद	वैदिक विद्वानोनी सत्कार समारंभनी स्मरणिका, ७-२-८१
		(iv) संस्कृत अलंकार ग्रन्थोमां शृंगादि नव रसोनुं निरूपण	'Svadhyaaya', Vol. 18, No. 1, Nov. 1980, Dipotsavi issue
		(v) Review of Amarakosa-II, Pt. I	'Journal of the Oriental Institute', Vol. 30, Nos. 1-2, Sept.-Dec. 1980 issue
(2)	Shri J. P. Thaker	Go-Vijnana MSS in the Oriental Institute	Journal of the Oriental Institute, Vol. 29, Nos. 3-4, March-June 1980
(3)	Dr. B. N. Bhatt	(i) Review of The Philosophy of Nimbarka	Journal of the Oriental Institute, Vol. 29, Nos. 3-4, March-June 1980
		(ii) Exile and Kingdom	Journal of the Oriental Institute, Vol. 30, Nos. 3-4
(4)	Shri P. H. Joshi	(i) Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 29, Nos. 3-4, March-June, 1980
		(ii) Select Contents of Oriental Journals	Journal of the Oriental Institute, Vol. 30, Nos. 1-2, Sept.-Dec. 1980
(5)	Shri B. P. Pandya	(i) Karmayogi Nagarada-sakaka (in Gujarati)	Anugraha, Smrtianka, Vol. 41, Nos. 6-8, June-Aug. 1980

Sr. No.	Name/s	Title	Name of the Journal wherein published with month of Publication
		(ii) Pujyapada Acarya-varya Vrajbhusana-lalji (in Gujarati)	Anugraha, Smrtianka, Vol. 41, Nos. 6-8, June-Aug. 1980
		(iii) Review of Nandashankar (in Gujarati)	Svadhyaaya, Vol. 17, No. 3, April, 1980
6.	S. Y. Wakankar	Review of : The Wealth of Sanskrit MSS in India and abroad	Journal of the Oriental Institute, Vol. 39, Nos. 1-2, Sept.-Dec., 1980
7.	M. M. Pathak	Review of : Encyclopaedia of Indian Philosophies, Vol. II	Journal of the Oriental Institute, Vol. 29, Nos. 3-4, March-June, 1980
8.	D. S. Joshi	(i) उद्धवतुं रामायण	Hindu-Milan-Mandir, Nov. 1980
		(ii) भक्तिर्दभो विना भावम्	Nareshwarano-Nad June, 1980
		(iii) ज्ञानं भारः क्रियां विना	Nareshwarano-Nad July-Aug. 1980
		(iv) श्रामे श्रामे दत्तनाम स्मरणमन	Nareshwarano-Nad Sept. 1980
		(v) अवधूतनी साधे साधे	Nareshwarano-Nad Nov. 1980
		(vi) बोधमालिका	Nareshwarano-Nad Jan., 1981 onwards
		(vii) Review of : गीतामृत भाग १-२	Svadhyaaya, Vol. 17, No. 3, April, 1980
		(viii) मूल सोतां उखडेलां	Svadhyaaya, Vol. 17, No. 4, Aug. 1980

(b) Talks given at different Institutions/Universities :

Sr. No.	Name of the Teacher	Institute/University	Subject of Talk
(1)	Prof. A. N. Jani	(i) Ambika Temple, Malsar, May 1980	Importance of Dashahara
		(ii) Narayanamatha, Baroda June 1980	Importance of Sacrifice
		(iii) Sanskrit Vidvat Sabha, Baroda, Oct. 1980	A Tribute to Late Vidya-bhaskara Pt. M. V. Upadhyaya
		(iv) Dwisatabdi Mahotsava of Swaminarayana Jayanti, Baroda, Dec. 1980	Vacanamrta
		(v) Shri Ranga Avadhuta, Gandhinagar Dec. 1980	The Spiritual Significance of Vandana

(c) Participation in Inservice Programme :

- (1) A. N. Jani :
- (i) Inaugurated Vallabha Sanskrit Pathashala organised by the Anugraha Trust, Baroda on 17-5-1980.
- (ii) Inaugurated the book 'Narayana Samkirtan' at the Narayanasmruti Hall, Baroda, on 27-7-1980.
- (iii) Attended the International Seminar on Ramayana organised by Sahitya Academy, New Delhi, and read a paper on 'Sanskrit Versions of Valmiki Ramayana' on 8-9-10 Jan. 1981.
- (iv) Delivered a talk as Chief Guest at the second annual function of Sanskar Saurabha, Padra and delivered a speech on "The Position and Teaching of Sanskrit" on 24-25-26 Jan. 1981.
- (2) M. M. Pathak :
- (i) Wrote a Sanskrit one act play 'Pradbohanam'—recorded on 31st March 1981 for broadcasting on AIR, Baroda, subsequently.
- (ii) Participated in the Seminar on Manuscriptology held in Sept. 1980, at the Bhogilal Laherchand Institute of Indology, Patan and delivered a talk on 'Textual Criticism'.
- (3) S. Y. Wakankar :
- (i) Talk in Marathi on Importance of Makara-Sankranti at Kakadeya Hanuman Mandir, Baroda, on 17-1-1981.
- (4) D. S. Joshi :
- (i) Given a radio talk on 'जीवन मूल्यो अने श्री रंग अवधूत' at NSS students camp at Nareshwar on 24-10-1980.
- (ii) Given a public lecture on 'अवधूतनुं जीवनकार्य' at Jambusar on 13-2-1981.

5. Manuscripts Section

This section has a collection of 26,271 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and in several modern Indian languages including a few in Persian and Arabic. Of these, 49 were added during the year, all of which are received as gift from (1) Shri Amol J. Desai and (2) Shri G. G. Joshi, Nagpur.

During the year, 40 manuscripts were lent out to other Institutions, 10 to local scholars, 2 manuscripts were borrowed from other Institutions for Research purposes and 152 were issued for work on the premises of the Institute.

6. Printed Books Section

The Institute has a well-equipped library having a collection of 40,514 books.

(a) Books

This year the library received a grant of Rs. 5,000/- from the University. A grant of Rs. 1,000/- was also received for purchasing books for the Vishnu-purana Project. A special grant of Rs. 1,000/- was also received from the University Grants Commission.

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

	Books including bound periodicals	Total Value Rs.
(i) Total Number of Volumes of the year	39,948	4,22,450-35
(ii) Number added during the year	566	6,988-74
	40,514	4,29,439-09

Out of the total number of books added during the year, 92 were purchased at the cost of Rs. 6,988-74 and 474 books were received as gift and/or on exchange basis.

(b) Periodicals

The total number of periodicals and scholarly journals subscribed for and received on exchange basis now stands at 196 (7 subscribed and 189 exchange).

7. Publications

(a) Gaekwad's Oriental Series :

Editing and publication of the Series is one of the main activities of this Institute. Up till now, 169 volumes have been published under this Series. The following works were printed during the year :

- (1) Nyayalankara —by Prof. A. L. Thakur and Late Dr. J. S. Jetly
- (2) Gurjararasavali —by Late Prof. B. K. Thakore, Late Shri M. D. Desai, and Late Prof. M. C. Modi

(Reprinted with 50% grant from Government of Gujarat)

(b) *M. S. University Oriental Series :*

- (1) Tilakamanjari-kathoddhara —by Shri N. M. Kansara

8. Translation Branch

The following works are printed during the year :

(a) *Shri Sayaji Sahityamala :*

- (1) सूर्यशक्ति —by Shri Padmakant R. Shah
 (2) दलपतरामः एक अध्ययन —by Shri Hasit H. Buch
 *(Reprinted)

9. Vishnupurana Project

The Project activities are as follows :

- (i) Completed the copying of the 3rd and 4th set of vulgate text.
 (ii) Collected five new manuscripts and completed checking of four manuscripts.
 (iii) Test-collation for five chapters from nine manuscripts.
 (iv) Examination of thirty-two new manuscripts at Ahmedabad, Poona and Thanjavur.
 (v) Preparation of an exhaustive list of omissions and insertions occurring in the manuscripts collected so far.
 (vi) Prepared a list of the MSS of Vishnupurana according to their place of deposit and classified them according to various scripts.
 (vii) Collection of Quotations of Vishnupurana from the 16 Smrti works.
 (viii) Collection of variants from one commentary.
 (ix) Corresponded with 25 new institutions and procured 9 microfilms and 10 MSS for collation.

10. Journal of the Oriental Institute

During the year, Nos. 3 and 4 of Vol. 29 and Nos. 1-2 of Vol. 30 were published. 145 and 120 subscribers were registered for Vol. 29 and 30 respectively and 156 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and Oriental learning.

11. Gujarati Journal 'Svadyaya'

During the year, Nos. 3 and 4 of Vol. 17 and Nos. 1 and 2 of Vol. 18 were published. 133 and 121 subscribers were registered for Vol. 17 and 18 respectively and 33 copies were sent on exchange basis.

12. Visitors

Sr. No.	Name and Designation	Date of Visit
1.	Dr. Katharine B. Free, Associate Professor of Thraite Arts, Loyola Marymount University, Los-Angeles, California, U.S.A.	9-7-1980
2.	Dr. Prabhakar Shastri, Head of the Department of Sanskrit, University of Rajasthan, Jaipur	26-7-1980
3.	Prof. J. A. Carpentier and Come Carpentier Founder Director, Pax Eclogia, Fellows Lccricros Mahabedhi Society, Egmore, Madras	28-7-1980
4.	Miss Meher H. Moos, Air India-Executive, Bombay	14-8-1980
5.	Mr. Dindayall Pandey, Preacher, Chhoti Omti, Jabalpur (M.P.)	23-8-1980
6.	Prof. Amrut Upadhyaya, Agriculture Director and Professor, 3-L. Institute of Indology, Kanasand Pado, Patan-2	9-9-1980
7.	Mr. M. N. Parthasarathy, Secretary, Sri Ramaniya Vedanta Centre, 10th South Meda Street, Madras.	28-1-1981

CHAPTER-XVIII—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

Year/Class	Men	Women	Total
(a) Diploma :			
1st year			403
2nd year	263	140	189
3rd year	105	84	117
4th year	58	59	87
5th year	45	42	68
	23	45	
Total :	494	370	864
(b) Post Diploma - Drama :			
(Specialization in Acting)	3	2	5
Total :	3	2	5
(c) Degree :			
1st year			31
2nd year	11	20	27
3rd year	12	15	10
4th year	4	6	16
	7	9	
Total :	34	50	84
(d) Post-graduate Diploma :	6	—	6
(e) Post-graduate Degree :			
Junior	9	3	12
Senior	3	5	8
Total :	12	8	20
(f) Ph.D. :	3	1	4
Grand Total :	552	431	983

3. Staff

(a) Present Position :

The staff of the College consisted of 4 Professors, 3 Readers, 30 Lecturers, 5 Tabla Accompanists, 9 Class III and 11 Class IV employees.

(b) New Appointments :

(1) Shri M. N. Purandare	Lecturer in Violin
(2) Shri M. N. Gurav	Lecturer in Tabla

(c) Teachers Upgraded to Higher Position :

(1) Shri-S. K. Saxena (Reader in Tabla)	Professor of Music (Instrumental)
(2) Shri R. P. Bhatt (Lecturer in Drama)	Reader in Drama

(d) Teachers who left :

Shri K. A. Tanjorkar	Reader in Dance	Retired
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(e) Non-Teaching employee expired during the year under report :
Shri Ramanlal H. Pandya expired on 8-12-1980.

4. Faculty Union Activities

- (i) Two days Music and Symposium programme was arranged in memory of Late Ustad Maulabux, Pt. Bhatkhande and Pt. Paluskar on 26th and 27th Sept., 1980 by the staff and students of the College.
- (ii) Programme of Shri Dayanand Devgandharva of Udaipur was arranged on Vocal Music on 22-10-1980.
- (iii) Students' Association arranged a Performing Arts Festival for honouring and facilitating Prof. P. J. Madan, Ex-Vice-Chancellor on 6-1-1981.
- (iv) Students' Association arranged a Cultural Programme of Vocal and Bharata Natyam of the students of the Music College on 17-12-1980.
- (v) Students' Association arranged a competition of "General knowledge Quiz" on 20-12-1980.

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 the reading-room and the number of books issued to them are as under :

	<i>Number</i>
(a) Average number of students making use of Library and/or reading room per day	67
(b) Average number of teachers making use of Library and/or reading room per day	19
(c) Total number of books issued to students during the year	3306
(d) Total number of books issued to teachers during the year	1577

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

<i>Particulars</i>	<i>Number</i>	<i>Cost in Rs.</i>
(1) Books (including back number of Journals) as on 1-4-1980	9062	96,787-47
(2) Books added during the year	258	2,843-03
(3) Books as on 31-3-1981	9320	99,630-50
(4) Journals subscribed during the year	22	1,110-80
(5) Amount spent on binding during the year	—	224-70

CHAPTER XIX—BARODA SANSKRIT MAHAVIDYALAYA

1. Courses of Studies

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

2. Number of Students

Number of students enrolled in various classes during the year 1980-81 was as under:

<i>Courses</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
I. Pratham Kaksha :			
1st Year	11	—	11
2nd Year	6	—	6
3rd Year	4	—	4
Total	21	—	21
II. Madhyam Kaksha :			
(i) Shukla Yajurveda Yagniki			
1st Year	19	—	19
(ii) Rigveda Yagniki :			
1st Year	1	—	1
(iii) Vyakarana Shastra :			
1st Year	23	3	26
2nd Year	2	—	2
Total	45	3	48
(iv) Jyotish Shastra :			
1st Year	48	2	50
2nd Year	7	—	7
3rd Year	2	—	2
4th Year	1	—	1
5th Year	3	—	3
Total	106	5	111
III. Uttam Kaksha (Shastri) :			
(i) Jyotish Shastra :			
2nd Year	2	—	2
3rd Year	1	—	1

Courses	Men	Women	Total
(ii) Dharma Shastra :			
1st Year	4	1	5
2nd Year	1	—	1
(iii) Sahitya Shastra :			
1st Year	4	6	10
2nd Year	—	2	2
Total	12	9	21
IV. Uttam Kaksha (Acharya) :			
Sahitya Shastra :			
1st Year	—	1	1
Total	—	1	1
V. Veda Branches :			
(i) Shukla Yajurveda	11	—	11
(ii) Samaveda	6	—	6
(iii) Atharvaveda	7	—	7
(iv) Rigveda	6	—	6
Total	30	—	30
Grand Total	169	15	184

VI. Evening Part-time Courses :

	I Semester		
Geeta (Adult Section)	6	8	14
Geeta (Children Section)	6	1	7
General Jyotish	27	3	30
General Palmistry	25	3	28
General Ayurveda	3	1	4
Yajurveda Yajniki	11	—	11
Rigveda	1	—	1
Samaveda	2	—	2
Total	81	16	97

3. Staff

(a) Present Position :

During the year under report, the staff of the institution consisted of the Principal as a Professor, 5 Pradhyapakas, 6 Upadhyapakas, 1 Part-time Teacher (Pandit), 4 Gurus, 2 Class III and 4 Class IV Employees.

(b) New Appointments :

(1) Shri N. C. Shukla	Pradhyapak
(2) Shri L. M. Joshi	Pradhyapak
(3) Shri U. H. Shukla	Pradhyapak
(4) Shri A. S. Pathak	Upadhyapak
(5) Shri V. B. Vyas	Upadhyapak
(6) Shri K. J. Purohit	Upadhyapak
(7) Shri R. J. Joshi	Upadhyapak
(8) Shri S. B. Shirgaokar	Part-time Teacher
(9) Shri L. K. Godse	Guru
(10) Shri M. H. Oza	Guru
(11) Shri L. N. Ghule	Guru
(12) Shri V. B. Kaduskar	Guru

(c) Teachers who left the University :

Shri K. T. Pandya,	Upadhyapak	—Retired
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4. Professional Growth of the Staff

(a) Published Articles/Papers :

Sr. No.	Name/s	Title	Name of the Journal *wherein published with month of publication
(1)	P. K. Dongre	१. सम्पादकीयम्	२. संस्कृत शिक्षा
(2)	J. R. Pathak	१. होलिकोत्सवः	२. मनीषा
(3)	V. B. Prakashkar	१. सदा विजयते	श्रीमद्वासुदेव सरस्वती

R26 *Annual issue of "Surabharati" 1980-81.

(b) Talks given at different Universities/Institutions :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Talk
(1)	Professor P. K. Dongre	Maharashtra Government Veda Study Centre, Satara	Vedic Grammar specially related to Krishna Yajurveda
(2)	Dr. J. R. Pathak	Sardar Vallabhbhai Vidyalaya, Bapod	Sanskrit Mahatvam on occasion of Sanskrit day celebration

(c) Participation in Inservice Programme :

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which Participated
(1)	P. K. Donger	Siddhiyog Dhyan Kendra, Baroda, 14-11-1980	Chairman
(2)	J. R. Pathak	Lectures on Guru Mahima arranged by Yogi divine Society at Umbarhat Dist. : Surat, 9-12-1980	Participant

(d) Extension Lectures :

Sr.No.	Name of the Teacher	Subject	Date
(1)	Dr. J. R. Pathak	Sanskritdin Mahatvam	28-8-1980
(2)	Pt. Shri V. B. Prakashkar	Gaudpadacharya	29-9-1980

5. Publication

Sr. No.	Name of the Journal	Editor	Month of Publication
1.	SURABHARATI	Principal, Sanskrit Mahavidyalaya, Baroda	March, 1981.

6. Extra Curricular Activities

- (i) Elocution competition in Sanskrit was arranged on 23-1-1981 for the award of the Medal of Sharda Peeth Jagadguru Shankaracharya Maharaj of Dwarka.
- (ii) Sanskrit Day was celebrated on 3-10-1980.
- (iii) Antyakshari competition was held on 18-12-1980.
- (iv) Geeta Jayanti Celebration was held on 18-12-1980.

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.

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	45
(2) Average number of teachers making use of the Library and/or the Reading room daily	19
(3) Total number of books issued to teachers during the year	425

The following figures show the stock and the expenditure on the Library and/or the Reading Room.

Particulars	Number	Cost in Rs.
(1) Books (including back numbers of journals as on 1-4-1980)	6614	32,122-47
(2) Books added during the year	65	1,244-10
(3) Books as on 31-3-1981	6109	33,366-57
(4) Total amount spent for Library and/or Reading Room during the year		1,244-10

CHAPTER XX—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

Sr.No.	Year/Class	Men	Women	Total
<i>Degree :</i>				
(i) Arts :				
	(1) F.Y.B.A.	18	07	25
	(2) S.Y.B.A.	22	16	38
	(3) T.Y.B.A.	40	19	59
	Total :	80	42	122
(ii) Commerce :				
	(4) F.Y.B.Com.	598	142	740
	(5) S.Y.B.Com.	256	44	300
	(6) T.Y.B.Com.	212	19	231
	Total :	1066	205	1271
	Grand Total :	1146	247	1393

3. Staff

(a) Present Position :

During the year 1980-81, the staff of the College consisted of 1 Principal, 21 Lecturers, 1 Physical Instructor, 14 Class III Employees and 11 Class IV Employees.

(b) New Appointments :

Sr.No	Name	Designation
(1)	Shri Y. N. Parikh	Lecturer in Commerce
(2)	Shri A. I. Meman	Lecturer in Business Economics

(c) Teachers transferred to Baroda on work arrangement basis :

The following members of the Teaching Staff were transferred to Baroda on the work arrangement basis :

- (1) Shri S. J. Panchal, Lecturer in Gujarati
- (2) Shri M. K. Bapat, Lecturer in History

4. Faculty Union Activities

(1) Blood Donation :

The N.S.S. Wing of the Association organised a Blood Donation Camp in our College in collaboration with the Friends Society, Baroda. The students and staff members donated 48 Bottles of Blood.

(2) N.S.S. Activities :

43 students joined the Camp at Devgadhi Baria. They helped the local community in the villages by erecting Chokadi, Paniara and Nirdham Chula and Ventilators. The N.S.S. also organized educational tour to Navagam Damo site and to Chambal Valley decoits area during this year.

(3) The N.C.C. conducted "B" and "C" Certificate Examinations. Ten cadets of the N.C.C. attended the Annual Training Camp at Rajpipla. Three students were selected for Regular Army Attachment Camp held at Jamnagar.

5. Library

The College has a separate Library. It received a grant of Rs. 3,000/- for the purchase of books, a grant of Rs. 2,500/- for periodicals and Rs. 1,000/- for Binding charges from the University. It also received a grant of Rs. 1,000/- from the 1st instalment of the 6th Plan U.G.C. grant of the year 1980-81.

The Reading Room of the Library has seating accommodation for 60 students. During the College Tests and Annual Examinations, the extra seats are provided in Reading Room premises. The working hours of the Library are from 8-00 a.m. to 5-30 p.m. on all working days and from 8-00 a.m. to 3-00 p.m. on Saturdays. During Examination sessions facilities for reading were provided from 8-00 a.m. to 8-00 p.m. daily even on Sundays and Holidays.

The following are the figures showing average daily attendance in the Reading Room and circulation of Books :

	Number
(1) Average number of student making use of the Library and/or the Reading Room daily	200
(2) Average number of teachers making use of the Library and/or the Reading Room daily	15
(3) Total number of books issued to students during the year	13,050
(4) Total number of books issued to teachers during the year	2,480

The following are the figures showing the stock and expenditure on the Library/or Reading Room.

Sr.No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals as on 1-4-1980)	10,145	1,46,054-15
(2)	Books Added during the year	126	3,899-51
(3)	Books as on 31-3-1981	10,271	1,49,953-66
(4)	Journals subscribed during the year	57	2,499-65
(5)	Amount spent on binding during the year	—	314-00
(6)	Total amount spent for Library and/or Reading Room during the year.	—	6,713-16

6. Visitors

Shri M. K. Amin Industrialist and Chief Donor to the College.

CHAPTER XXI—POLYTECHNIC

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 the various courses at the commencement of the year was as under:

	Men	Women	Total
(a) <i>Regular Diploma Courses :</i>			
(1) First Year Diploma	485	12	497
(2) Second Year Diploma	645	8	653
(3) Third Year Diploma Final Year	579	2	581
(b) <i>Diploma Courses in Petro-Chemical Technology :</i>			
(1) First Year Diploma (Ist and IInd Semester)	60	1	61
(2) Second Year Diploma (Ist and IInd Semester)	58	1	59
(3) Third Year Diploma (Ist and IInd Semester)	43	1	44
(4) Final Year (Ist and IInd Semester)	30	—	30
(c) <i>Part-time Courses :</i>			
(1) First Year Diploma	276	1	277
(2) Second Year Diploma	116	—	116
(3) Third Year Diploma	122	1	123
(4) Fourth Year i.e. Final Year (including Supplementary)	118	—	118
Grand Total	2,532	27	2,559

3. Staff

(a) Present Position :

During the year under report the staff of the Polytechnic consisted of 1 Principal, 4 Heads, 82 Lecturers, 6 Senior Instructors, 74 Class III and 61 Class IV Servants.

(b) *New Appointments :*

- | | |
|--------------------------|---|
| (1) Shri D. D. Goradia | Lecturer in Applied Mechanics |
| (2) Shri S. T. Bhagwat | Lecturer in Applied Mechanics |
| (3) Smt. Shukla Dasgupta | Lecturer in Mathematics |
| (4) Shri S. I. Raval | Lecturer in Civil Engineering |
| (5) Shri N. K. Somani | Lecturer in Civil Engineering |
| (6) Shri M. M. Patel | Lecturer in Electrical Engineering |
| (7) Shri A. S. Patel | Lecturer in Civil Engineering |
| (8) Shri S. J. Chauhan | Lecturer in Civil Engineering |
| (9) Shri V. S. Patel | Lecturer in Electrical Engineering |
| (10) Shri M. M. Patel | Lecturer in Electrical Engineering |
| (11) Shri D. N. Panchal | Lecturer in Electrical Engineering |
| (12) Shri S. J. Gadhavi | } Senior Instructor in
Petro-Chemical Department |
| (13) Shri M. I. Patel | |
| (14) Shri H. B. Patel | |
| (15) Shri K. S. Agrawal | |
| (16) Shri K. G. Patel | |
| (17) Shri D. N. Joshi | |

(c) *Teachers Upgraded to Higher Position :*

- | | |
|--|--|
| (1) Shri C. D. Panchal,
Lecturer in Electrical Engineering
Department | Head of the Department. |
| (2) Shri G. M. Sheth,
Lecturer in Mechanical Engineering
Department | Head of the Department. |
| (3) Shri J. H. Shah,
Senior Instructor in Petro-Chemical
Technology Department | Lecturer in Petro-Chemical
Technology Department. |
| (4) Shri D. J. Gandhi,
Senior Instructor in Petro-Chemical
Technology Department | Lecturer in Petro-Chemical
Technology Department. |
| (5) Shri A. G. Telpange,
Lecturer in Petro-Chemical Techno-
logy Department | Head, Petro-Chemical
Technology Department. |

(d) *Teachers who left the Institution :*

- | | | |
|--------------------------|---|--|
| (1) Shri R. M. Bhagia | Reader and Head of the
Department | Transferred to Faculty of
Technology and Engineering. |
| (2) Shri K. V. Mudholkar | Teaching Assistant in Civil
Engineering Department | Resigned. |
| (3) Shri G. V. Patel | Teaching Assistant | Resigned. |

- | | | |
|------------------------|--|--|
| (4) Shri H. R. Shah | Lecturer in Civil Engineering
Department | Resigned. |
| (5) Shri A. M. Shah | Reader and Head, Depart-
ment of Electrical Engineering | Transferred to Faculty of
Technology and Engineering. |
| (6) Shri A. N. Saraiya | Lecturer | Resigned. |
| (7) Shri G. V. Desai | Temporary Senior Instructor | Resigned. |

4. *Faculty Union Activities*

The Students' Association carried out the usual activities viz. Participation in Youth Festival, Indoor and Outdoor Games, Celebration of Polytechnic Day etc.

5. *Library*(A) *Acquisition Notes :*(1) *Books :*

Books were purchased from the recurring grant of Rs. 25,000/- and Five Semester Post-Higher Secondary (Std. XII) Science Stream Diploma in CME contingencies grant Rs. 5,000/-. 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	18,769	3,40,790-90
(2) Number added during the year	1,041	29,951-76
(3) Number remaining at the end	19,810	3,70,742-66

(2) *Periodicals :*

During this year, the Library subscribed 45 periodicals. The total amount spent for the periodicals was Rs. 6,359-93 and the amount spent for binding was Rs. 3,327.40.

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

The working hours of the Library for the academic year were from 8-00 a.m. to 8-00 p.m. except on Sundays and Holidays.

*(2) Statistics :

Statistics for the use of the Library are given below :

(1) Daily average number of readers making use of the Library per day	301
(2) Average issue of the books for Home Reading per day	75
(3) Average issuing of books for readingroom per day	45
(4) Total number of students registered	1,811

*Decreased due to close of teaching and Mass Promotion.

CHAPTER XXII—A CENTRE FOR CONTINUING/ADULT EDUCATION AND COMMUNITY SERVICES

1. Courses of Studies

The Centre conducted the following courses during the year 1980-81:

(I) Long Term (One Year) :

	Men	Women	Total
(1) Industrial Purchasing and Material Management	220	9	229
(2) Marketing Management	95	3	98
(3) Industrial Management	46	—	46
(4) Hotel Management	17	16	33
(5) Product Engineering	17	—	17
(6) Adult/Literacy/Education	716	542	1,258
Total :	1,111	570	1,681

(II) Short Term (Summer Courses) :

(1) English Improvement	16	6	22
(2) Interior Decoration	16	56	72
(3) Batik on Textiles	2	23	25
(4) Fancy Cookery	—	35	35
(5) Photography	14	2	16
(6) Apprentice Wiremen	23	—	23
(7) Dress Making for Babies	—	7	7
(8) Light Music I	9	13	22
(9) Handicrafts	—	7	7
(10) Light Music II	8	16	24
(11) Tailoring Class in Community for Adult Women	—	100	100
(12) Hand Embroidary	30	50	80
(13) Book Binding and Box Making	—	25	25
(14) Aims and Objectives of Adult Education in India	180	160	340
(15) Health and Sanitation, Child Care	60	180	240
(16) Immunisation and Vaccination	30	180	210
(17) Pre-natal and Post-natal care of Pregnant Mothers	—	120	120
(18) Music (Bhajan) in Village	50	100	150
(19) Gujarati for Professional	—	15	15
Total :	438	1,095	1,533

Grand Total 1,549 1,665 3,214

2. Staff

The Centre has one post of Professor, one Reader, three Lecturers, one Co-ordinator, one Supervisor, four Class III and two Class IV personnel.

3. Professional Growth of the Staff

(a) *Papers presented at All India Level Seminars and Conference etc. :*

Sr. No.	Name of the Teacher	Name, Place and Date of the Conference/Seminars	Title of the Paper presented
(1)	M. Chakravorthy	(i) "Third All India Workshop on Krishna Vijayan Kendra, Pondichery, 19th to 22nd Aug., 1980."	"Critical Training Need in Home Science focused on rural young girls."
		(ii) The All India Education Association Meeting, Ahmedabad, From 2nd to 4th Nov., 1980	Continuing/Adult Education, M. S. University.
		(iii) Annual Meeting of Association of University Continuing Adult Education. From 15th to 17th Feb., 1981.	"Model of Adult Education for Women". "System Analysis".
		(iv) National Seminar, Waltair (A.P.) 2nd to 4th Oct. 1980	"Involvement of Universities and Colleges in the Programme of Continuing Education Special reference to the weaker Section of the Society".

(b) *Published Books :*

Sr. No.	Name of the Author	Name of the Book	Name of the Publisher
1.	M. Chakravorthy	(i) A Year Programme for Women (A teacher guide)	M. S. University Press, Baroda.
		(ii) Vocational Education for Disadvantages.	M. S. University Press, Baroda.

(c) *Participation in In-service Programme :*

- (1) Dr. M. Chakravorty completed a project on "Evaluation of Functional Literacy Programme of Adivasi Women of Chhota-Udepur". (Sponsored by the Ministry of Education and Social Welfare, Govt. of India, New Delhi).
- (2) Dr. M. Chakravorty served as a member of B.L.P. Project of Chhota-Udepur.
- (3) Training Programme for student teachers of (NAEP) National Adult Education Programme was organised (3 days).
- (4) Miss Kalpana Shah and J. C. Tahilramani delivered various lectures on objectives of Adult Education in the community.
- (5) Several Lectures were organised in the slum areas in Health and Sanitation, Family Planning and Prevention of Diseases.

CHAPTER XXII-B—SIR SAYAJIRAO MEMORIAL TRUST
I. A. S. TRAINING CENTRE

1. **Training Programme of the Third Batch (Dec. 1979 to May 1980)**

The training programme of the third batch (consisting of 13 trainees) prior to the Preliminary Examination was concluded by the end of April 1980. All the trainees who were attending the Centre took the Preliminary Examination held by U.P.S.C. in June 1980. Two of them who cleared the Preliminary Examination appeared for the Main Examination held by Union Public Service Commission in November 1980.

2. **Intensive Training Programme for candidates who cleared their Preliminary Examination held in June 1980**

Some candidates from Gujarat (Mostly employed in public and private sector organisations) and who had cleared the Preliminary Examination directly, approached the Centre for providing facilities for intensive training in the subject of General Studies and/or optional subjects offered by them. The coaching was commenced after obtaining approval of the Government of Gujarat. There was a small group of trainees who had offered Geography as an Optional subject and coaching was provided for that subject.

3. **"Catch them young" training programme for bright undergraduates**

As desired by the Vice-Chancellor and other members, pamphlet was prepared for the S.Y. and T.Y. students of the different Faculties of the University, regarding the programme. Another pamphlet giving general idea about All India and Central Services was prepared and circulated to all Deans and Heads of the Departments of the M. S. University.

About 500 copies of the pamphlet for the "Catch them young" scheme were distributed to the bright S.Y. students in the Faculties of Arts, Science, Commerce and Engineering and Technology. About 50 to 60 students registered their names with the Centre and the coaching was commenced for the various areas to be covered under "General Studies" for four days in a week one lecture daily, in the month of September, 1980. The training was continued during December, 1980 and January, 1981 with an average attendance of 15 students.

4. **New Session of the Centre for coaching the trainees for the 1981 U.P.S.C. Examination (IV Batch)**

As usual, Advertisements were published in the Lokshata of Baroda and Times of India of Ahmedabad, in September, 1980, inviting applications from bright students, for admission to the Centre.

The candidates were interviewed by the Hon. Director and 24 trainees were selected for training, taking into consideration their educational qualifications and general awareness.

New session commenced from 3rd December, 1980. Out of the 32 trainees selected for the current session, about 20 were attending the lectures. Arrangements for coaching in Optional subjects were finalised with the faculties concerned. Coaching was arranged for the optional subject of :

1. History,
2. Zoology,
3. Botany,
4. Commerce and Accountancy,
5. Economics.

Lectures of eminent persons with specialized background in their areas were also arranged for the coverage of topics under "General Studies".

Assessment Tests in "General Studies" were held at the end of every month when 150 objective type questions on various topics under "General Studies" were set.

Visits of the trainees were arranged to the Baroda Museum and Picture Gallery and Sardar Vallabhbhai Planetarium to view and study their aspects.

One of the features of this year's training programme was to invite IAS Probationers who come in a batch of 25 to Baroda as a part of their training, to see industries like IPCL in their "Bharat Darshan" programme.

A documentary film about the working of the Union Public Service Commission from the stage of inviting applications for the UPSC examinations upto interviews by the Panel of members of UPSC has been purchased by the Centre. The film was shown to the trainees of both the III and IV batch to acquaint them with the working of the UPSC and especially the interview by the Panel of the Interview Board.

CHAPTER XXII-C—COMPUTER CENTRE

The year 1980 shall be remembered in the history of the M. S. University of Baroda, as the year in which the University entered the era of Computerisation. The COMPUTER CENTRE, was installed and inaugurated by Shri H. C. Sarin, then, the adviser to the Government of Gujarat, on 20th April, 1980.

The M. S. University was trying hard since the year 1970 to get an Electronic Computer for the training of the students in the field of Computer Science and to develop its research activities in the field of Science and Technology. The UGC agreed to shift IBM 360/44 Computer system from Indian Institute of Science, Bangalore to Baroda. The following machines were transferred from I.I.Sc. Bangalore and were installed in a newly constructed building for this purpose :

IBM System 360 Model 44:

(1) C.P.U.	: 2044-G
(2) Disk Drives	: 3 Nos. IBM 2314
(3) Tape Drives	: 2 Nos. IBM 2401
(4) Card Reader/Punch	: One IBM 2540
(5) Line Printer	: One IBM 1430
(6) Plotter	: One IBM 1627.

The University Grants Commission had provided the grants for the building/air-conditioning etc. and also for the transportation and installation of the computer. An expert committee from the U.G.C. visited the University in the month of August 1980 and the additional grants for the building space and some other off-line peripherals, which are essential for the functioning of the computer, have been provided.

The Staff of the Centre consisted of One Honorary Director, One Head, One System Engineer, Two Programmers, Five Technical persons and Three administrative supporting persons.

The computer time is being made available to the students and teaching staff of the University for their own research/academic work at free of cost. In spite of certain lack of facilities, large numbers and research students from various faculties are making use of the facilities available at the centre. In fact, some Ph.D. theses and M. E. dissertations are entirely based on the computer work at the Centre.

The Computer is used by 14 teachers for their own research work and by 25 students either for M. S. dissertation or Ph.D. thesis.

Apart from the teachers and the research students, the computer is used in several courses as a part of their curriculum ;—

List of courses wherein computer is required as a part of curriculum :

- (1) M.E. (Computer Science and Technology).
- (2) M.E. (Electrical Power Engineering).
- (3) M.E. (Geo-technical Engineering).
- (4) M.Sc. (Statistics).
- (5) B.E. (Electrical, Electronics, Civil, and Metallurgy).
- (6) B.Sc. (Statistics and Mathematics).

The facilities of the centre are also utilised by various other academic and research institutions to whom a concessional rate is being charged. There are number of public sector and private undertaking who are also making use of the computer. The various categories of external users are :—

(a) Educational Institutions :

1. Sardar Patel University, Vallabh Vidyanagar
2. South Gujarat University, Surat
3. S.V.R. College of Engineering and Technology, Surat
4. Railway Staff College, Baroda.

(b) Research Institutions :—

1. Gujarat Engineering Research Institute, Baroda
2. Central Salt and Marine Chemicals Research Institute, Bhavnagar
3. Electrical Research and Development Association, Baroda
4. Physical Research Laboratory, Ahmedabad.

(c) Government/Semi-Government/Public Sector Undertaking :—

- (1) Indian Petrochemicals Corporation Limited, Baroda
- (2) Oil and Natural Gas Commission, Western Division, Baroda
- (3) Gujarat Electricity Board, Baroda
- (4) Narmada Project Dam Design Circle, Baroda
- (5) Baroda Municipal Corporation, Baroda
- (6) Gujarat State Fertilizers Company, Baroda
- (7) Indian Railway, Railway Electrification, Baroda.

(d) Private Sector :—

1. Operation Research Group, Baroda
2. Hindustan Brown Boveri Ltd., Baroda
3. Jyoti Limited, Baroda
4. Elecon Pvt. Ltd., Vallabh Vidyanagar etc.

The centre has also developed many software packages which are very useful to the users. Many new additional software facilities have also been installed.

The centre has also developed the computerised salary system for the university pay roll.

The Computer Centre at present working for almost to the 12 hours per day. The centre hopes to become self supporting by the end of next year. It has taken up a project on 'Computerised Gas Billing' for Baroda Municipal Corporation to improve its resources.

The faculty members in the other facilities are also taking up the consultancy projects wherein the extensive use of the computer may be required. The details of one such project is as follows :—

List of Institutional Consultancy Projects wherein computer is used :—

Sr. No.	Name and Designation of the consultant	Deptt.	Institution	Financing Agency	Nature of work
1.	Dr. G. C. Kothari Professor	Electrical	Technology and Engineering	Punjab State Electricity Board	Network Planning for sixth and Seventh five year plan.

The Computer Centre has started short time course for the training to staff and research students of University to use IBM 360/44 Computer System.

Slowly research workers in the University are becoming computer-conscious and it is hoped that the Centre will be used effectively by the students and staff of this University for their research work.

The University Grants Commission (UGC) has already given sanction to start 4-year degree course in Computer Science and Engineering and two years post graduate degree course in Computer Application (MCA). The centre also propose to start few vocational course.

CHAPTER XXIII—SHRIMATI HANSA MEHTA LIBRARY

1. Order Section

(1) *Acquisition Notes :*

(a) *Books :*

The University Grants Commission sanctioned a basic grant of Rs. 3,00,000/- for the purchase of books and journals in the second half of the year and it is fully utilised by 31st March 1981. This grant is sanctioned as the first charge on the Sixth Plan allocation of the University.

The Library continued to spend the recurring grant of Rs. 25,000/- and a non-recurring grant of Rs. 1,50,000/- for purchase of books and journals sanctioned by the University Grants Commission for the Department of History under the programme of Special Assistance during the Fifth plan period.

There have been some noteworthy additions during the year viz., *Eternal India* by Indira Gandhi 1980; *The Palaces of India* by Fatehsinrao P. Gaekwad, 1980; *Forty Five Years of Ranji Trophy 1934-1979*, 2 vols.; 1981; *Sarojini Naidu, an Introduction to her Life, Work and Poetry* by V. S. Naravane, 1980; *The creation of Wealth, a Tata Story* by R. M. Lala, 1981; *Census of India, 1971*; *Census Atlas, National Volume, 1977*; *Academic Super Markets* by P. G. Altbach and Others, 1971; *A Historical Atlas of South Asia* ed. by J. E. Schwartzberg, 1978; *Da Asia De Joao De Barros, 24 Vols.*, 1973-74; *Asia Portuguesa* ed. by F. E. Sousa 6 Vols.; *Historia De Portugal Edicao Monumental* by D. Peres and E. Cerderic 7 Vols., 1928-1937.

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

Institutions	Number of Books
(1) Smt. Hansa Mehta Library (which includes books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science and the Centre for Continuing/Adult Education and Community services.)	2,507
(2) Faculty of Technology and Engineering	992
(3) Faculty of Fine Arts	77
(4) College of Indian Music, Dance and Dramatics	258
(5) Oriental Institute (Printed Section)	566
(6) Polytechnic	1,041
(7) Sanskrit Mahavidyalaya	41
(8) Centre of Advanced Study in Education	300
(9) M. K. Amin Arts and Science College and College of Commerce, Padra	126
(10) Faculty of Social Work	119
	<hr/> 6,027

Out of these 1,306 were received as gift.

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

	Books	Bound Vols. of Periodicals	Manu- scripts	Maps, Charts, etc.	Total value in Rs.
(1) Number at the beginning of year	2,95,645	46,326	248	1,162	98,36,404-61
(2) Number added during the year	2,507	2,530	3	17	7,91,014-36
(3) Number remaining at the end of the year	2,98,152	48,856	251	1,179	1,06,27,418-97

(b) *Periodicals* :

The total number of periodicals and scholarly journals subscribed to was 721 and 2,530 volumes of bound periodicals were added to the stock.

(2) *Cataloguing Section* :

(A) Books classified and catalogued during the year :

(a) New accessions to University Library	2,507
(b) New accessions to Faculty Libraries	3,520

(c) Bound periodicals catalogued and Classified

2,530

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

	For University Library	For Faculty Library	Total
(1) Cards typed	7,521	17,600	25,121
(2) Cards filed in the Catalogue	7,521	17,600	25,121

3. *Circulation Section*

As usual the working hours of the Library for the whole academic year i.e. April 1980 to March 1981 (except in the months of May, June and July) were from 8-00 a.m. to 10-00 p.m. The Library was kept open on almost all Sundays and holidays during the year. In the months of May, 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 and closed on Sundays and Holidays.

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

(i) Post-graduate students	—	2,135
(ii) Under-graduate students	—	6,230
(iii) Research Scholars	—	164
(iv) University Teachers	—	550
(v) Others	—	76
		<u>Total : 9,155</u>

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

(i) Daily average of readers visiting the Library	2,500
(ii) Total number of books issued per day for reading	<u>1,320</u>
(a) Average number of books issued per day for home reading from General collection.	214
(b) Average number of books issued per day from Curricular collection	164
(c) Average number of books issued per day from stacks	786
(d) Average number of books issued per day from Curricular collection of the New Library	156
(iii) Average number of books issued per reader in the year	34

4. *Reference Section*

(1) *Reference Service to Readers* :

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

(2) *Orientation Programme* :

In the beginning of the academic session, the reference section conducted an orientation programme intended to acquaint with and familiarise the new entrants to the working of the various sections of the library. The various practices and procedures followed by the library, the arrangement of books on the shelves and other technical devices were explained to them 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 exhibition of books, pamphlets and other photographs on the following topics and persons were arranged:

(a) *Special Exhibition :*

- (i) Food Preservation, (ii) Vinoba Bhave, (iii) Ecology,
- (iv) Self realization, (v) Cripples, (vi) Indian Beggars.

(b) *Weekly Exhibitions :*

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

(4) *Bibliographical Activities :*

Bibliographies on the following topics were compiled during the period :

- ✓ (i) Books on and by Kalidasa
- ✓ (ii) Books in the field of current political, economic and social development in Indian language.
- ✓ (iii) Books and Journals on Educational statistics.
- ✗ (iv) Textile Technology.
- ✗ (v) Audio-Visual Education.
- ✗ (vi) Discoveries and Explorations.

(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 Thirteenth Library Week the Reference Section carried out the following activities :

- (i) An exhibition of books, periodicals, pamphlets, etc. was arranged on the usefulness of Libraries in India.
- (ii) Librarians of different Institutions of Baroda city were invited to this Library to discuss their problems.
- (iii) Students of the Secondary Schools of our city were invited in groups to visit our library.
- (iv) Readers were encouraged to read more books.

(7) *Theses and Dissertations :*

- (i) During the period, 132 theses and dissertations were added to the collection of 4,045 bringing the total collection to 4,177.
- (ii) During the period 3,404 readers consulted the theses and dissertations.
- (iii) A descriptive list of Ph.D. theses received in the library from January, 1980 to December, 1980 was published.

(8) *Reference Material :*

During the period, 1918 readers consulted the references books and other reference material.

(9) *Pamphlets Collection :*

The reference section has a sizable collection of pamphlets. The following statement gives the details of pamphlets collection in the library:

(i) Number at the beginning of the year	18,989
(ii) Number added during the year	514
(iii) Number withdrawn from the record	482
(iv) Number remaining at the end of the year	19,021

5. *Sir Sayajirao Memorial Trust Library*

The library timings are from 8-00 a.m. to 10-00 p.m. The library is kept open almost on all sundays and holidays during the year (except in May, June and July).

The Statistics of use of the library is as under :

(i) Average number of readers visiting the library per day	1,584
(ii) Average number of books issued per day from curricular collection.	156

CHAPTER XXV—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

1. Executive Committee

For the year 1980-81 Shri T. D. Patel and Shri K. P. Dhake were appointed as President and Treasurer respectively of the M. S. University Union. Shri T. D. Patel and Shri K. P. Dhake resigned in October, 1980 and Mr. R. M. Pancholi and Shri R. A. Vakil were appointed President and Treasurer respectively from the month of November, 1980.

General Elections were held on August, 22, 1980 and Shri Nilesh Shukla (Polytechnic) was elected Vice-President and Shri Hector Patel (Faculty of Science) was elected General Secretary. Forty other students were elected as their Faculty/Institution representatives.

2. Union Activities

(1) Indoor Games : (Chess, Badminton and Table Tennis) :

Our teams participated at the Inter-University Chess and Table Tennis Tournaments organised by Nagpur University, Nagpur and Bombay University, Bombay during the year 1980-81 and performed well. The Inter-University Badminton Tournament was organised by Marathawada University, Aurangabad during the year 1980-81 in which our teams performed well. Our Badminton Secretaries had sponsored Gujarat State Badminton Tournament at our Badminton Court in the month of December, 1980. Indoor Games Secretaries had organised open University Chess and Carrom Tournaments in the month of January, 1981. Besides, the Table Tennis and Badminton teams played various local and state level tournaments and won many prizes.

(2) Hiking Club :

The club had organised a Tracking Programme at Pavagadh in the month of January, 1981.

CHAPTER XXVI—GENERAL EDUCATION CENTRE

1. Facilities

Facilities are available at the Centre for Students of the University for Self-learning through Audio-Visual Aids for Practical Art Activities and Appreciation, as well as for knowing the Electrical Gadgets, their use and minor repairs.

2. Programmes

The activities under various programmes at the General Education Centre during the year were as under:

(1) Art Activities, Appreciation and Film Club :

During the year 1980-81 totally fifteen (15) students were registered from different Faculties. Students worked with materials like Poster paints, Papers, Clay, Plaster and found objects. They created pictorial and sculptural forms. Slides on painting and sculpture were shown. Films from departmental collection were also projected for the Group.

(2) Speakers and Writers Club :

During this academic year, 13 students for Speakers' Club and two students for Writers' club were registered from different Faculties for the academic year 1980-81.

(3) Electrical Gadgets Club :

Twelve students registered for the Electrical Gadgets Club during the year 1980-81. They received instruction on various topics related to :

Radio,
Tape recorder,
Electric Bell,
Volt meter,
Tube light and
Fuses of different types.

(4) Listener's Club :

In the year 1980-81, 5 students were registered for the Listener's Club. Tapes of different known artists were listened to students.

(5) Dramatic Club :

In the year 1980-81, 6 students were registered for the Dramatic Club. Instruction was imparted to them in Stage Geography, Stage lighting, Use of stage space, Acting and Improvisation.

CHAPTER XXVII—STUDENTS' WELFARE ACTIVITIES

1. Halls of Residence

In 1949, the University had accommodation for 200 men in rented buildings, while for women there was no hostel accommodation at all. Today there are 12 Halls of Residence for men 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 2,607 men and women were in residence in different halls as against 2,588 and 667 respectively in 1979-1980. The annexed statement gives the breakup of these students by Halls and Institutions.

In each of the men's Halls of Residence, there is one honorary warden; in each of the women's Halls there is one/paid full-time superintendent. The administration of the Halls was carried on in consultation with the Advisory Committee of the Halls of Residence and Wardens' Committee.

Every Hall has a common room which is generally used as Library-cum-reading room also, and furnished visitor's rooms. Indoor games are also provided in the Halls. A water cooler is installed in each Hall.

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 was the chairman of the Central Committee.

Students are also members on the above committees. Each Hall has also its own Executive Committee composed of the Student members duly elected by the resident students of the Hall. These committees worked under the guidance of their respective wardens. Students participated actively in nearly all matters pertaining to the affairs of the Hall except finance.

2. University Health Centre

During the year the full-time staff of the Health Centre consisted of the Medical Officer, Compounder, Nurse, Sanitary Inspector, Laboratory cum-X-Ray Technician and three Hamal-cum-Sweepers. There were one part-time A.M.O., one part-time L.M.O. and two part-time clerks. There were as Honorary Staff, one senior physician, one surgeon and one lady Gynecologist. Two general practitioners in the city continued to attend to university employees living in the city.

The "Maternity and Child Centre" are under the guidance of Rotary Club of Baroda. Worked in the Health Centre on every Thursday for 2 hours in the morning. It dealt with vaccination programme and ante-natal advice to expectant mothers. It also provided family welfare advice.

The Health Centre provided preventive and curative service for malaria to students, members of the staff and their families. Its services and facilities included Oxygen therapy, Intra-venous infusions, Infra-red lamp, hot water bag, Ice-bag, Bed-pans etc. and the issuing of Physical fitness certificates for University Staff, for admissions in the faculties, for different training camps and other activities. Medical-check up to the mess-servants working in the Halls of Residence was also carried out.

Halls of residence, including their kitchens were inspected twice during the year to ensure maintenance of sanitary and hygiene conditions.

The Halls of Residence were visited twice during the year for inspecting the maintenance of sanitation and hygiene in the kitchens.

Compulsory medical check-up including X-Ray was carried out for all the fresh students in the University, by the Medical Inspection Board in S.S.G. Hospital, Baroda. Out of the total 6,255 new students scheduled for medical check-up, 4,510 students reported. Out of the total examined, 1,845 students were recommended for follow-up treatment from different specialists at Health Centre or at S.S.G. Hospital.

During the year 36 appointees were issued physical fitness certificates as part of their requirement before joining University employment.

The total attendance of the patients during the year at the Health Centre was 34,817 (27,938 were the members of staff and their families and 6,879 were students).

The total number of different laboratory investigations at the Health Centre was 2,399 and for fluoroscopic examinations 556.

The facilities of free medical treatment and reimbursement were also extended to the teaching staff members and their dependents from March, 1980, the facilities of free medical treatment and reimbursement were also extended to the members of the teaching staff and their dependents.

The total income during the year at the Health Centre was Rs. 5,492-50.

The total expenditure on medicines during the year was Rs. 74,262-45

An amount of Rs. 42,012-40 was paid as reimbursement of medical expenses and special allowance to the patients suffering from T.B., Cancer etc. to the University Staff and their dependents, as per M. S. University employees Medical Attendance Rules, 1977.

3: Physical Education

(1) Staff :

The staff consisted of a Director, One Senior Physical Instructor, five Physical Education Instructor, One Hockey Coach, One Swimming Trainer, One Boating Trainer, One Assistant Swimming Trainer and One Life Guard.

(2) Training in Physical Education :

Training in Physical Education was imparted to 1,258 Men Students and 653 Women Students from various Faculties and Institutions.

(3) Training and Coaching in Games and Sports :

(1) Cricket (M-62 and W-20), (2) Tennis (M-153 and W-10), (3) Hockey (M-30 and W-20), (4) Foot-Ball 25, (5) Kho-Kho (M-25 and W-13), (6) Track and Field Events (M-10 and W-2), (7) Kabaddi 32, (8) Volley-Ball 20, (9) Basket-Ball (M-40 and W-20), (10) Swimming (M-210 and W-40), (11) Boating (M-100 and W-7), (12) Shooting (M-10), (13) Cycling 10. (The numbers in brackets indicate regular attendance for the respective games).

There were 250 Members (Men and Women) students in Swimming. For Boating there were 107 regular students while 32 persons (including students) availed themselves of the sport during vacation. Special Coaching was provided by the honorary Coaches and Officers-in-Charge in the following Games and Sports :

Cricket (M and W), Foot-ball, Volley-ball, Basket-ball (M and W), Athletics (M and W), Kho-Kho (M and W), Hockey (M and W), Kabaddi, Swimming (M and W), Boating (M and W), Shooting (M and W) by N.C.C., Tennis (M and W).

(4) Participation in Tournaments and Competitions :

(a) Inter-University Tournaments :

Name of the Game	Venue	Result
(1) Football	Ujjain	Lost in quarter final.
(2) Hockey (Men)	Indore	Lost in quarter final
(3) Basketball (Men)	Baroda	Third place in West Zone.
(4) Basketball (Women)	Madras	Lost in second round.
(5) Tennis (Men)	Kakatiya	Lost in first round.
(6) Swimming (Men)	Calcutta	No place secured.
(7) Kabaddi	Jalgaon	Lost in second round.
(8) Cricket (Men)	Udaipur	Lost in semi-final.

Name of the Game	Venue	Result
(9) Cricket (Women)	Hyderabad	Lost in semi-final.
(10) Cycling	Patiala	No place secured.
(11) Volleyball (Men)	Bombay	Lost in first round.
(12) Table Tennis (Men)	Bombay	Lost in pre-quarter final.
(13) Table Tennis (Women)	Bombay	
(14) Badminton (Men)	Aurangabad	Lost in semi-final.
(15) Badminton (Women)	Aurangabad	Lost in quarter final.
(16) Athletics	Gwalior	No place secured.

(b) High Lights :

- (i) Football : (1) Won Shri Gururam Dasji Football Championship held at Baroda.
(2) Silvester D'souza of Faculty of Commerce was selected for the camp of probable players of the Indian team.
- (ii) Basketball (Men) : (1) Won the Gujarat State Championship held at Bhavanagar,
(2) Won the Gujarat State Junior Championship held at Visnagar.
(3) Won the Open Refinery employees Union Championship
- (iii) Basketball (Women) : (1) Won the Gujarat State Championship held at Bhavnagar.
(2) Won the Gujarat State Junior Championship held at Visnagar.
(3) Won the Mahajan Shaktidal Championship at Patan.
- (iv) Cricket : Won the Championship and the Trophy of Fertilizer Tournament.
- (v) Hockey (Men) : Winners in Baroda District Junior Boys Hockey Tournament held at Baroda.
- (vi) Hockey (Women) : Kum. Vatsala Patil, student of Music College, was selected as Captain of Gujarat State Women's Hockey Team for the XXXIII Sr. Women's Hockey Championship 1980 held at Indore.

(c) Other Important Events :

- (i) Football : The following players were selected from this University in the West Zone for the Summer Camp :
- | | |
|---------------------|------------------|
| (1) Rohit Raj Singh | —Arts |
| (2) Salim Ginwala | —Tech. and Engg. |
| (3) S. D'souza | —Commerce |
- (ii) Hockey (Men) : The following players selected for West Zone Summer Camp :
- | | |
|----------------------|------------------|
| (1) Mathew Alexander | —Tech. and Engg. |
| (2) Gusain Mahendra | —Tech and Engg. |
| (3) Lalit Watts | —Commerce |
- (iii) Hockey (Women) : Paresh Rupal, student of Tech. and Engg. is selected for the Summer Coaching Camp.
- (iv) Cricket (Men) : The following players were selected for the Vizzy Trophy :
- | | |
|-------------------------|-----------|
| (1) Shri Hemant Pandya | —Arts |
| (2) Shri Bharat Adiacha | —Arts |
| (3) Shri Sanjay Hazare | —Commerce |
- (v) Basketball : The following players were selected for the Summer Camp :
- | | |
|-------------------|------------------|
| (1) N. W. Justus | —Tech. and Engg. |
| (2) Modi Shailesh | —Science |

(d) Selected for National Level in Games :

- (i) Basketball (Men) : The following players were selected to represent the Gujarat State in Nationals :
- | | |
|--------------------|-----------------|
| (1) N. W. Justus | —Tech and Engg. |
| (2) Raju Patel | —Medicine |
| (3) Thumbby Jeremy | —Science |
- (ii) Basketball (Women) : The following women players selected for National in Gujarat State Team :
- | | |
|----------------------------|----------------|
| (1) Harsha Trivedi (Capt.) | —Home Science |
| (2) Bela Dave | —Music College |
| (3) Nilima Pandit | —Science |
| (4) Sunita Vaidya | —Commerce |
- (iii) Hockey (Women) : (1) Kum. Juliana Pereira was selected to represent Gujarat State at the XVII Junior National Women's Hockey Championship at Trivendrum in August, 1980.

(2) The following women players were selected for Gujarat State Team to represent in 6th National Women Festival Tournament held at Jaipur in October, 1980.

- | | | |
|-------|----------------|-------------------|
| (i) | Kalpna Bhavsar | —F.Y.B.Com. |
| (ii) | Kalpna Patel | —S.Y.B.Com. |
| (iii) | Jayasha Tailor | —S.Y.B.Sc. (Hom.) |

The following players were selected for Gujarat State team to represent in XXXIII Sr. Women's National Hockey Championship (1980) at Indore in December, 1980.

- | | | |
|--------|-----------------|--|
| (i) | Vatsala (Capt.) | —Music College/She captained the State Team. |
| (ii) | Bhavana Vakil | —1st LL.B. |
| (iii) | Kalpna Patel | —S.Y.B.Com. |
| (iv) | Pereira Juliana | —S.Y.B.Com. |
| (v) | Kalpna Amin | —S.Y.B.Sc. (Hom.) |
| (vi) | Jayasha Tailor | —S.Y.B.Com. (Hom.) |
| (vii) | Rupal Parikh | —B.E. I |
| (viii) | Rekha Joshi | —Medicine |

(iv) Hockey (Men) : Shri Lalit Watts—represented Gujarat in Sr. National Hockey Tournament held at Jullundar

(e) State Tournament :

- (i) Basketball (Men) : (1) Won the Gujarat State Championship.
(2) Won the Gujarat State Junior Championship.
- (ii) Basketball (Women) : (1) Won the Gujarat State Championship.
(2) Won the Gujarat State Won Junior Basketball Championship.
- (iii) Hockey (Women) : (1) Runners up—Gujarat State Women Hockey Championship held at Baroda.
(2) Runners up—Gujarat State Women Knock-out Hockey Tournament held at Ahmedabad.

(f) Other State Level Tournament :

- (i) Football (Men) : (1) Winners—Shri Gururam Dasji Football Tournament.
(2) Runners up—Mahajan Trophy.
- (ii) Hockey (Women) : (1) Runners up—Late Miss Mandakini Jani Women's Hockey Tournament held at Ahmedabad.
(2) Runners up—Mahajan Trophy.

- (iii) Basketball (Men) : Runners up—Danial Soul State Level Championship held at Surat.
- (iv) Basketball (Women) : Winners—Mahajan Shaktidal Championship.
- (v) Kabaddi : Participated in Gujarat State Kabaddi Selection Tournament held at Baroda.
- (g) Local Tournament :
- (i) Basketball (Men) : Won Open Refinery Employes Union Championship.
- (ii) Cricket : (1) Zaveri league Tournament—Won five Matches, lost one.
(2) Randle Cup Tournament—Won three Matches, lost in the semi-final.
(3) Ghia Tournament—Won three Matches, lost one.
(4) Fertilizer Tournament—Won the Championship and got the Trophy.
- (iii) Hockey : Runners up—Baroda Sr. League Tournament.
Runners up—O.N.G.C.—Hockey Tournament held at Baroda.
- (iv) Hockey (Men) : Winners (Under 20—Boys)
In Baroda District Junior Boys Hockey Tournament held at Baroda.
- (v) Boating : I, II and III places in the Boating Races Conducted by the Jaycees.

(h) Inter Faculty Tournament :

- (i) Football —Winners —Faculty of Tech. and Engg.
—Runners up —Faculty of Commerce
- (ii) Basket Ball (Men) —Winners —Faculty of Science
—Runners up —Faculty of Tech. and Engg.
- (iii) Hockey (Men) —Winners —Faculty of Arts
—Runners up —Faculty of Commerce
- (iv) Hockey (Women) —Winners —Faculty of Commerce
—Runners up —Faculty of Home Science

4. National Cadet Corps :

(1) Units and Enrolment :

The Annual Report covers the undermentioned NCC Units of M. S. University Baroda :—

Name of the Unit	NCC Officers	NCC Cadets
(a) 3 Gujarat Battalion NCC	3	303
(b) 1 Gujarat Composite Tech. Regt. NCC	2	160
(c) Company, 6 Gujarat Girls Battalion NCC, Surat	1	152
(d) 2 Gujarat Naval Unit NCC Baroda	2	180
(e) 1 Gujarat Air Sqn. NCC, Baroda	—	180
	8	975

- (2) Training :—Training of all the units started in July 1980 and terminated in Feb. 1981. A number of officers and cadets took part in the Directorate General NCC Organised camps/courses, Annual Training camps and attachment with Regular units. Training to the cadets of this Unit was imparted according to the syllabus defined by Director General NCC to Engineers and EME Branch. Some of the high lights of training are as under :—
- (a) Annual Training Campus :—Attended by NCC cadets of M. S. University

Sr.No.	Unit	Officers	Cadets
		Strength	
(i)	3 Gujarat Bn NCC	4	125
(ii)	1 Gujarat Compo Tech. Regt. Unit	1	9
(iii)	Company, 6 Guj. Girls Bn. NCC	1	54
(iv)	2 Gujarat Naval Unit NCC	—	14
(v)	1 Gujarat Air Sqn. NCC	—	17
		7	219

(b) Directorate General NCC Organised Camps/Courses :

Sr. No.	Name of Campus/Courses	Number attended
		Officers Cadets
(i)	Basic Leadership Course of SD Boys (with agricultural Bias) at Gurgaon (Punjab) 16 Dec. to 29 Dec. 1980.	— 2
(ii)	Basic Leadership Course of SW Girl Cadets at Bangalore, 17 May to 28 May, 1980.	1 5

Sr. No.	Name of the Campus/Courses	Number attended Officers Cadets
(iii)	Advanced Leadership Course of SD Boys at Namkam (Bihar) 4 June to 24 June, 1980.	4
(iv)	Advanced Leadership Course of SD Boys at Manali (Punjab) 2 June to 22 June, 1980.	3
(v)	Advanced Leadership Courses of SD Boys (with Naval Bias) at Vishakhapatnam 28 May to 17 June, 1980.	4
(vi)	Vayu Sainik Camp of SD Boys at Deodaballapur 15 June to 28 June, 1980.	11
		29

(c) 9 Cadets attended the Republic Day Parade and the Prime Minister's Rally on 26 Jan. 1981. 4 Cadets won prizes for various competitions held at Delhi during the Republic Day Camp.

(d) Attachment with Regular Army Units :—

The following number of cadets were attached with the Regular Army/Naval/Air Force Units :—

Sr.No.	Unit	No. of cadets attached	Type of Regular Unit
(i)	3 Gujarat Bn NCC	21	Army Unit
(ii)	1 Gujarat Compo Tech Regt NCC	10	Army Unit
(iii)	2 Guj. Naval Unit NCC	2	Naval Unit
(iv)	1 Guj. Air Sqn NCC	4	Air Force Unit

(3) Competitions :—

(a) Ship modelling Competition :—

The following cadets of 2 Guj Naval Unit NCC, Baroda participated in the Ship Modelling competition held at Bangalore and Bombay on 27 April. and 7 Dec. 1980 respectively and secured the following positions :—

Sr.No.	Name of the Cadet	Event	Name of the Model	Prize Won
Bangalore				
(i)	Cdt Capt M. S. Pathak	Static	Mysore	Third
(ii)	Cdt Capt M. S. Pathak	Speed	Spruance	First
(iii)	PO Cdt D. D. Desai	Static	Static Craft	Second
(iv)	PO Cdt D. D. Desai	Speed	Static Credit	Second
(v)	L/Cdt M. E. Kharadi	Static	Vikrant	Second
(vi)	L/Cdt M. E. Kharadi	Speed	Smite	Second

Bombay

(i)	Cdt Capt P. G. Patel	Static	Mysore	First
(ii)	PO Cdt D. D. Desai	Static	Hmashire	Second
(iii)	PO Cdt D. D. Desai	Static	Pearl Yacht	Third

(b) PO Cdt P. S. Kale won the first prize of 'Best team Trophy' in the All India Ship Modelling Competition held at New Delhi during the Republic Day Camp 1981.

(c) Directorate General Organised Camps/Courses :

The number of officers and cadets, the details of prizes won in various centrally organised camps/courses are shown as under :—

Sr. No.	Name of Camps/Courses	Number Attended Officers Cadets	Prizes Won
1	2	3	4

(i) Advanced Leadership course of Senior Division Cadets at Namkum (Ranchi)—4 June to 24 June 1980

U/O Ravikant D. Joshi of 3 Guj Bn NCC Baroda has won the following competitions and prizes :

(a) Awarded Merit Certificate—stood first in Leadership Qualities

(b) Awarded Silver Medal and Merit certificate for being the second Best Cadet.

(c) Awarded Merit Certificate for the special Quarter Guard during camp.

(ii) Basic Leadership Course of SD Boys at Coonoor (Tamil Nadu), 17 May to 30 May 1980.

10 COMS G. R. Luthara of 1 Guj Compo Tech Regt NCC, Baroda stood second in the Treasures Hunt Exercise and was awarded Silver Medal.

Sr. No.	Name of Camps/ Courses	Number Attended		Prizes Won
		Officers	Cadets	
1	2	3	4	
(iii)	Rock Climbing Trg Camp of J D Boys at Pachmarhi (MP) from 10 May to 19 May 1980.			Cadet Jayaswant Sachin 1 Gujarat Compo (T) Regt NCC, Baroda was awarded merit certificate for skating organised by the Himalayan Scientific Explanatory Mountaineering and Allied Sports Institute 16 May 1980.
(iv)	Advanced Leadership Course of SW Girls Cadets at Panchgani (Maharashtra) from 20 May to 9 June 1980.	—	2	Cpl Sushma Trivedi Vishnuram of 6 Guj Girls Bn NCC, Surat was awarded Silver Plate for being the best alround cadet on the course. She also stood first in line dressing out of Gujarat Contingent.
(v)	INS Nau Sainik Camp of SD Boys at Cochin (Kerala) from 7 June to 20 June 1980.	1	7	Four cadets of 2 Guj Naval Unit took part in the Boat Pulling competition held during INS Nau Sainik Camp and won the Second prize. Names of cadets who participated from 2 Guj Naval Unit NCC, Baroda are as under: (a) L/Cdt S. S. Kulkarni (b) L/Cdt M. E. Kharadi (c) Cadet B. D. Tandel (d) Cadet S. N. Pathak

(4) Youth Exchange Programme Canada

PO Cadet K. S. Chhabra 2 Gujarat Naval Unit NCC, Baroda was selected for Youth Exchange Programme Canada sponsored by the Directorate General NCC. He took part in the programme from 17 Oct. 1980 to 21 Apr. 1981, out of which, he spent approximately three months in Canada. This is the first time that a cadet from Gujarat was selected for such a Programme abroad.

(5) Governor's Medal for Best Cadet—1980

GUJ/SD/78/57942. CUO Luthara GR or 1 Gujarat Compo (Tech) Regt NCC Baroda was selected as the Best Cadet for the award of Governor's Medal 1980.

(6) Honorary Ranks

The rare honour of the rank of Honorary Major was conferred upon Maj. D. C. Vyas for long, unblemished and meritorious service in the NCC. he is the second NCC Officer from the M. S. University to be so honoured. Major. N. P. Salvi was the first officer to be given the nonorary rank of Major in NCC in 1979.

(7) Social Service by N.C.C. Cadets :

(a) Under this programme introduced in 1975, independent projects like three plantation, road repair cleaning of villages/slum areas and lectures on hygiene and sanitation to the villagers were undertaken by the cadets. Girl cadets took up projects at Crippled Children Home Baroda. A total of 1,000 man hours of social service was carried out by the cadets of this Group. 208 cadets donated a total of 62400 c.c. blood during the year.

(b) The cadets of this unit helped the villagers in the construction and raising of second bund to prevent the waters of the Vishwamitri from village. Muzumda A total of 852 man hours were devoted to this task. 1,100 Cft of earth was dug and spread over the bund.

(8) Adventure Training :

(i) Sailing expedition on the Narmada from Mangrol to Bharuch 120 Kms (was undertaken by 15 Cadets of 2 Gujarat Naval Unit, Baroda from 3 Dec 80. 10 Girl cadets (i.e. attached 2 Guj. Naval Unit NCC) also joined on the last day at Bharuch.

(ii) Inter-State Cycling Expedition :—
An Inter State Cyclin expedition from Ahmedabad to Bhopal and back was organized from 22 Oct to 4 Nov. 80. 9 cadets of the group participated in the expedition.

(9) Annual Convocation :—M. S. University :—

A guard of honour, consisting of one officer and fifty cadets was given to Dr. I. G. Patel, Governor of Reserve Bank of India on 6 Dec. 80 at the Annual Convocation.

(10) Gliding/Flying Training—1 Gujarat Air Sqn NCC, Baroda :—

Training in Gliding was imparted to 50 boy cadets and 18 Girl Cadets. A total of 2062 launches were carried out during the year. 9 Boys and 4 Girl

Cadets were given power-flying at Gujarat power-flying club, Baroda for 603, 20 hrs.

(11) **Parat Training :—**

Under Officer D. R. Bhat of 3 Gujarat Bn NCC attended the Para Training at Agra from 18 August 81 to 20 Sep. 81 and did five jumps.

(12) **Achievement :—(Part-Time NCC Officers Course)**

The Unit successfully conducted two courses as under at All India-level for NCC Part-time Officers (EME) during 1980/81 :

- (a) Refresher course Non-Inf. Units (EME) from 2 Jun. '80 to 1 Jul. 80 —8 Officers
- (b) Pre-Commission course Non-Inf Units (EME) from 2 June '80 to 30 Aug '80. —4 Officers

(13) **Certificate Examinations :**

The result of Certificate Examinations conducted during Feb/Mar '81 is shown as under :

Name of Unit	Certificate Examinations							
	'C' Certi		'B' Certi		'G' Part I		'G' Part II	
	App	Pass	App	Pass	App	Pass	App	Pass
(a) 3 Guj Bn NCC	17	14	17	39	—	—	—	—
(b) 1 Guj Compo (T) Regt NCC	6	5	8	7	—	—	—	—
(c) 1 Guj Air Sqd NCE	14	13	18	16	—	—	—	—
(d) 2 Guj Naval Unit NCC	8	6	14	12	—	—	—	—
(e) Coy at Baroda of 6 Guj Girls Bn NCC.	—	—	—	—	38	35	11	10

(14) **Blood Donation :**

45 cadets of this unit donated Qty 13350 CC Blood.

(15) **Three Plantation :**

During the monsoon the under-mentioned trees were planted by cadets of this unit :

- (a) Eucalyptus — 20
- (b) Gulmohar — 40
- (c) Nilgiri — 75
- (d) Ashoka — 80
- (e) Other Misc — 20

5. **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 Student's 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, draught, chess, table tennis, etc. and for reading newspapers, periodicals and 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.

6. **Hobby Workshop :**

The M. S. University Hobby Workshop came into existence from the grant of Rs. 25,000/- (Non-recurring) for the building of the Hobby Workshop and a grant of Rs. 24,000/- for the equipment etc. from the University Grant Commission for the following Hobbies:—(1) Carpentry, (2) Assembling Electronics and Electric Appliances, (3) Music, (4) Clay Modelling and (5) Photography.

38 Students enrolled during the year for the various Hobbies as under :—

Name of the Hobby	Students enrolled in the year
(1) Carpentry	07
(2) Assembling Electronics and Electronic Appliances.	05
(3) Music	(a) 07 (-vocal) (b) 12 - Insturmental
(4) Clay Modelling	07
(5) Photography	—
Total :	38

The Staff of the workshop consisted of one officer in charge, one part-time clerk, and one part-time Peon.

7. **University Employment Information and Guidance Bureau**

The Bureau continued to offer the following service to the students :

- (i) Registration of post-graduate students.
- (ii) Submission of names of qualified applicants in different area,

- (iii) Placement guidance.
- (iv) Supply of information (by post as well as on personal visit).
- (v) Group guidance talks in schools of Baroda city.
- (vi) Review of Live registers.

The Bureau made efforts direct unemployed persons for training in office management, banking, accounting, industrial and computer training. In addition, this year the Chief and the Deputy Chief actively participated in celebrating "Guidance Week" in the month of January 1981. About one thousand school students took advantage of it. A career exhibition including specially designed and prepared career charts was also organized.

The Bureau also conducted pre-service Bank Recruitment classes for a period of two months for the educated unemployed youth.

Another useful work recently undertaken is the translation into Gujarati of some of the career pamphlets. At present Career Information Series No. 35, viz "Biology for a Career" is being translated.

8. National Service Scheme :

The National Service Scheme, of the University is sponsored by the Ministry of Education & Culture, Government of India and Directorate of Higher Education, Government of Gujarat.

The regular activities for the year 1980-81 began with Programme Planning cum-Evaluation Workshop, Enrolment Drive and Orientation as well as Training of Student Volunteers. The regular activities were spread over 18 service projects and some special crash programmes arising out of the needs and the situations, from time to time. The projectwise report that follows describes the process, along with the activities, achievements and objectives re-set in the programme planning workshop mentioned earlier.

(i) Objectives :

The major objectives of N.S.S. are to (1) involve the university youths in projects orientated to nation building and community services. (2) Such an involvement exposes our youth to the problems and conditions of our people. (3) The youth is also involved in making efforts to solve these problems with promotes the students' concern and sense of responsibility towards their fellow citizens (4) The service projects of N.S.S. meet various needs of the community, develop the programmes of welfare significance, build infra-structure for economic and social development and provide an opportunity to the student volunteers to apply their theoretical knowledge of subjects in to practical situations. (5) All this ultimately, leads to personality enrichment of the university students, helping them to become better citizens and efficient employees in future.

(ii) Organisation :—

The N.S.S. organisation in the year 1980-81 consisted of an Hon. Director, a Programme Coordinator, two Field Organisers, Twelve N.S.S. Programme Leaders, Office Assistants and a Peon.

(iii) Enrolment :

The organisation attracted 1500 student volunteers of different Faculties/Institutions of the University as per details given below :

Sr. No.	Faculty	No. of Male students	No. of Female students
(1)	Commerce	347	211
(2)	Arts	115	131
(3)	Science	130	045
(4)	Technology & Engineering	093	016
(5)	Home Science	—	047
(6)	Fine Arts	017	008
(7)	Polytechnic	138	009
(8)	Padra College	061	025
(9)	Medical College	074	022
(10)	Law	001	—
(11)	Music College	003	—
(12)	Social Work	007	—
		986	514 - 1500

(iv) Special Feature :

The organisation of various projects is carried out on the basis of student's interests and capacities guided and supervised centrally, at the university level.

(v) Project-Wise Activities for the year 1980-81 :—

I Action-Oriented Survey Projects :

After a special training in communication including interviewing volunteers were required to collect data, and conduct a house to house survey. They were also given a training session in skills of interviewing by using a 'role-play'.

A socio-economic profile of the families in localities around the Labour Welfare Center, Bhutadi Zampa was prepared. Conclusions drawn after data analysis enable students to formulate suitable programmes for the agency.

II Construction and Afforestation Projects :

With a stress on manual labour and the dignity of labour the project sought to involve students in the preservation and promotion of forests or trees and underscore the importance of greenery in maintaining ecological balance.

The students took up the activities of cleaning & grass cutting, earth work and levelling of plots as well as tree plantation. They were also taken for educational visits.

III Creative Activity Projects :

With its emphasis on creative activities of making "Best out of Waste" and thereby locating talent for creative work, the programme sought to transmit the idea to the primary school-going children in the poorest localities.

In the second phase, training was given once a week in stroke-painting, thread-painting, blow-pointing, stencil-drawing paper-marbling, tie & die, etc. Volunteers were then placed for transmitting creativity to the slum children. The response was very good.

IV Cultural Activity Projects :—

Students with some talent for cultural activities are used for the recreational needs of sick patients admitted to the hospitals and of the urban poor and the rural population. These programmes especially Drama and Bhavai (Gujarati folk drama) and Mime have proved very effective for communication.

The student volunteers prepared two one-act plays, two skits, several mimes, a bhavai, two group dances and 25 Gujarati songs projecting the problems of the society.

V Educational Guidance Projects :—

This project aims at exposing students to direct experiences in educational services.

One group carried out the programme of Library Assistance while another group organised coaching class activities for providing extra help on difficult subjects after school hours. A group also helped local youth associations in educational guidance activities.

VI Family Life Education Projects :—

The project seeks to involve the students of the Faculty of Home Science in activities of education, health, nutrition, supplementary income etc. to promote a better family life.

In July '80, an exhibition of Handicrafts was arranged to motivate the student volunteers to take up training in handicrafts.

Batches of students were deputed to 'Paper Mache' Workshop of Gujarat Government and a ten-day class in handicrafts who in turn imparted the skill to the girls in adopted villages of Sevasi and Khanpur. The students also organized play centre for handicapped children of Sonarkui village.

VII. Health Service and Rural Reconstruction Projects of Medicos :—

Under this project medical students are involved in Community Health.

A batch of students under the Drug Bank Programme at the S.S.G. Hospital, in collaboration with the Rotary Club of Baroda. They went to private medical practitioners of Baroda and collected drug samples from them. These drugs were then classified and kept in the bank. The sick and needy patients in Sayaji General Hospital were given the drugs free of cost.

Another group of senior volunteers continued to work in adopted Ankhol village of Baroda Taluka for an Integrated Community Health Programme. Local village youths were trained to chlorinate the water of the village well, which is their only source of drinking water the students also conducted a survey of the village to measure the health status of the family. Programmes of nutrition education and education in sanitation were also organised.

VIII. Hospital Service Projects :

Under this project students other than medical students are involved in different service projects in hospitals. The Project also aims at developing programmes of training potentials and service motives in the area of health.

A mobile library was run on all the working days for the in-ward patients of S. S. G. Hospital, Baroda thus enabling students to be helpful to people in times of sickness and need. Registration of books, book-binding and other administrative work of the library was reshuffled giving students experience of library administration.

Similar mobile library service programmes were run at more hospitals also. The students also organised book (including magazine) collection campaigns in different localities.

IX. Mass Education & Campaign Project :

The project training students to make effective use of mass media for educating the masses on vital civic and national issues.

One group organised a drive for small savings, while another did preparatory work to initiate Diabetes Detection Programme in selected slum areas. A batch also participated in a city level programme organised by the Society for Clean Environment in Baroda.

X. School Service Projects :

The project involves the students in programmes of making school education more and more meaningful.

Activities were undertaken in the vocational guidance, debate training, play centre activities and contacting primary school authorities in Baroda City.

(xi) Village Development Projects :

Students were given special training in rural sociology, rural people—their lives and problems.

The play centre was organised and play ground was preferred, as also the Village roads were repaired. The registered Vemali Yuvak Mandal organised a ten days' 'Shram Shibir' wherein the students played an important role.

15th August and 26th January were celebrated with game competitions and cultural programmes. A medical Check-up programme for skin diseases was arranged.

(xii) *Play Centre and Recreation Projects :*

Other this project students organize play centre and recreational activities meeting the needs of the inmates of correctional agencies and slum children.

(xiii) *Slum Improvement Projects :*

Students under this project organised the youth of Ganeshnagar and established a 'Youth Club'. Through this youth club 'Ganesh Puja', 15th August and 26th January were celebrated. Several games competitions were arranged and the prizes as well as sweets were distributed by the volunteers. An educational film show was also arranged.

A drive to popularise soak-pit programmes was launched, and 'demonstration soak-pits' were provided in Ganeshnagar and Savad Colony. The volunteers also prepared drainage line for safe disposal of sewage water, with the help of the local youth in Ganeshnagar slums. The follow-up of T.B. and Scabbies patients was also organised with the help of S.S.G. Hospital and Health Department of Municipal Corporation, Baroda.

(xiv) *Adult Education and Community Service Projects :*

The students were involved in conducting a survey to locate illiterate adults wishes of to join adult education classes in Savad Quarters, Nagarwada and Manjalpur areas. The volunteers, also assisted the adult educators in adult education centres run at different places in Baroda city, under the auspices of N.A.E.P. Programme.

(xv) *Project for the Disabled People :*

Different types of activities were organised to help blind students, both at school as well as at college level.

Four students of this project undertook training in Braille and on completion of it they would transcribe the books of Std. V in Braille. A group of students of this project conducted games and recreational activities for the blind inmates of Government School for the Blind, Pensionpura.

(xvi) *Padra College Projects :*

The students took up a number of activities like cleaning of Padra College Campus and preparing Volleyball, Cricket, Basketball and Badminton grounds.

They also repaired roads inside the college campus. 15th August was celebrated by planting 70 trees on both the sides of the roads within the college campus and the students took keen interest in looking after them.

Debates, group-discussions and essay competitions on issues related to youth welfare and the students community were organised during the year. Demonstration of Bavla type latrines, Soak-pits and smokeless ovens were given in the college campus as well as at selected places in Padra town.

Women volunteers collected old magazines and books from Padra town and used them to run a mobile library for women in Padra. The students of this project also associated themselves, actively in the organisation of Blood Donation Camp at Padra.

43 students of project participated in the Youth for Rural Reconstruction camp organised at Garh-Boriyad of Naswadi Taluka.

(xvii) *Information and Documentation Projects :*

The students distributed the responsibility of preparing write-ups for inclusion in 'N.S.S. Forum'.

They were also given training in interviewing, report-writing, precis-writing and article writing.

6. Special Projects

The students also under-took some special projects such as Shikshan Sahay Kendra, Follow-up Study of Camps.

Participation in city level programme organised by society for Clean Environment (SOCLEEN).

7. Special Camping Programme—1980

"Youth for Rural Reconstruction"

National Service Scheme, M. S. University of Baroda organised nineteen (19) camps under Special Camping Programme having the theme Youth for Rural Reconstruction during the year 1980. These camps were spread over Summer vacation as well as Winter vacation and were organised in backward rural areas or tribal areas of Baroda and Broach Districts. These camps involving 857 campers were organised by teachers and senior students, volunteers belonging to various Faculties/Institutions of the University.

The manual labour work activities undertaken in these camps were in the areas of (a) Afforestation and Tree Plantation, (b) Village Cleanliness and Health Education/Promotion as well as sanitation, (c) Lift-irrigation and (d) Construction/repair of village roads etc. Two of these camps call for

separate mention. One was an Inter-University Camp at Dandi and a camp at Rangpur was a Leadership Training Camp of selected volunteers of N.S.S., which aimed at preparing a cadre of trained volunteers to take up responsible tasks in time to come. 12 out of 29 volunteers of this training camp have now been working as successful student leaders and 5 of them have been camp. Annual Report A-2

The achievements of special camping programme—1980 reveal what our youths can do, if their energies are properly channelised. The student campers of these camps were instrumental in completion of 18,000 cubic feet of soil work on four Lift-irrigation projects, got involved in the construction of 217 Bavla Type Latrines, 472 Soak-pits, 444 Smokeless ovens, 430 Bath-rooms and 150 Paniyaras. 386 ventilators were provided to make the rural//tribal houses sunlit and airy. 1955 pits of measure 1' x 1' x 1½' were dug for the purpose of tree plantation. Over and above this, health education, mass immunisation and medical check-up programmes were also undertaken. The student volunteers got an educative exposure and experience through the programmes of community contacts, surveys and recreational programmes, undertaken as part of the camping activities. The details of the camps are as under :—

Sr.No.	Place of the Camp	Duration	Total number of participants	
			Men	Women
(1)	Atha-Dungri	20-4-1980 to 30-4-1980	21	
(2)	Rangpur-I	24-4-1980 to 4-5-1980	20	
(3)	Karajwant	28-4-1980 to 7-5-1980	33	
(4)	Dandi	4-5-1980 to 14-5-1980	11	
(5)	Kheda-Karamshia	6-5-1980 to 16-5-1980	26	
(6)	Patod	7-5-1980 to 17-5-1980	22	
(7)	Kothav-I	8-5-1980 to 18-5-1980	22	
(8)	Bhesavi	12-5-1980 to 22-5-1980	61	
(9)	Moti-Tokari	15-5-1980 to 25-5-1980	65	
(10)	Moti-Chikhali	22-5-1980 to 1-6-1980	49	
(11)	Devhat	26-5-1980 to 5-6-1980	26	
(12)	Kothav-II	4-6-1980 to 14-6-1980	61	
(13)	Rangpur-II	14-6-1980 to 24-6-1980	33	
(14)	Bil	23-10-1980 to 2-11-1980	47	
(15)	Roza	25-10-1980 to 4-11-1980	77	
(16)	Kishnad	10-11-1980 to 20-11-1980	80	
(17)	Zarakhali	11-11-1980 to 21-11-1980	70	
(18)	Shira	12-11-1980 to 22-11-1980	85	
(19)	Garh-Boriyad	13-11-1980 to 23-11-1980	48	

Total : 857

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

Appendix I
Statement showing the number of University Students in the Academic year 1980-81

Faculties/Institutions	Post-graduate Courses		Degree Courses		Diploma Courses		Total	Grand Total 1980-81	Grand Total 1979-80	Grand Total 1978-79	
	Men	Women	Men	Women	Men	Women					
	1. Faculty of Arts	298	246	841	933	56	18	1,195	1,197	2,392	2,600
2. Faculty of Science	313	170	1,096	551	20	—	1,429	721	2,150	1,995	2,097
3. Faculty of Education and Psychology	59	55	174	209	—	—	233	264	497	478	456
4. Faculty of Commerce	197	61	2,219	1,364	41	38	2,457	1,463	3,920	3,849	3,527
5. Faculty of Medicine	79	11	679	127	81	6	839	144	983	990	952
6. Faculty of Technology and Engineering	234	20	2,232	68	195	—	2,661	88	2,749	3,284	3,240
7. Faculty of Fine Arts	47	26	73	41	137	27	257	94	351	354	348
8. Faculty of Home Science	1	174	—	572	—	47	1	793	794	786	781
9. Faculty of Social Work	42	44	—	—	20	2	62	46	108	117	101
10. Faculty of Law	46	4	723	92	279	23	1,048	119	1,167	1,145	1,350
11. M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	1,146	247	—	—	1,146	247	1,393	1,066	957
12. College of Indian Music, Dance and Dramatics	15	9	34	50	—	—	49	59	108	96	105
13. Baroda Sanskrit Mahavidyalaya	12	9	30	16	—	—	42	25	67	46	62
14. Polytechnic	—	—	—	—	2,532	27	2,532	27	2,559	2,156	2,176
Total	1,343	829	9,247	4,270	3,361	188	13,951	5,387	19,238	18,962	19,257

Statement showing the Non-University Students in the year 1980-81

Faculty/Institution	Men	Women	Total		
			1980-81	1979-80	1978-79
A. Diploma Courses					
(i) College of Indian Music, Dance and Dramatics	494	370	864	826	794
B. Certificate Courses					
(i) Faculty of Arts	327	78	405	465	116
(ii) Faculty of Fine Arts	—	—	8	—	—
(iii) Baroda Sanskrit Mahavidyalaya	21	—	21	40	58
C. S.S.C. Courses					
(i) University Experimental School	451	288	739	767	815
D. Nursery Courses					
(i) Chetan Balwadi	43	42	85	104	28
(ii) Kinder Garten	85	43	128	166	57
Total	1,421	821	2,242	2,386	1,868

List of Degree/Diploma conferred at the Annual and Supplementary Convocations during the year 1980-81

Sr. No.	Degree/Diploma	Annual Convocation	Supplementary Convocation	Total
		December, 1980	March, 1981	
1	2	3	4	5
1.	Ph.D. (Arts)	7	2	9
2.	Ph.D. (Science)	16	9	25
3.	Ph.D. (Education)	13	10	23
4.	Ph.D. (Commerce)	1	—	1
5.	Ph.D. (Medicine)	2	1	3
6.	Ph.D. (Tech. and Engg.)	4	1	5
7.	Ph.D. (Home Science)	1	—	1
8.	Ph.D. (Social Work)	—	1	1
9.	M.D.	10	25	35
10.	M.S.	7	14	21
11.	M.A.	129	7	136
12.	Acharya	3	—	3
13.	B.A.	765	115	880
14.	Shastri	1	—	1
15.	Bachelor of Library Science	29	—	29
16.	Diploma in Linguistics	1	—	1
17.	M.Sc.	156	2	158
18.	B.Sc.	351	42	393
19.	M.Ed.	37	2	39
20.	B.Ed.	191	1	192
21.	M.Com.	76	12	88
22.	B.Com.	907	53	960
23.	Diploma in Banking	20	2	22
24.	Diploma in Co-operation	4	1	5
25.	M.Sc. (Medical)	5	9	14
26.	M.B.B.S.	26	121	147
27.	B. Physiotherapy	10	2	12
28.	D.O.	3	3	6
29.	D.A.	3	5	8
30.	D.L. and O.	—	4	4
31.	D.M.R.D.	—	3	3

1	2	3	4	5
32. D.C.H.		4	4	8
33. D.V. and D.		2	—	2
34. T.D.D.		1	2	3
35. D.C.P.		—	2	2
36. D.G.O.		6	3	9
37. D.P.H.		—	1	1
38. M.E.		9	13	22
39. M.Text. (Engg.)		1	1	2
40. M.Sc. (Applied Physics)		5	2	7
41. M.Sc. (Applied Mathematics)		5	1	6
42. M.Sc. (Applied Chemistry)		11	—	11
43. B.Tech.		6	—	6
44. B.E.		372	47	419
45. B.Text. (Engg.)		34	2	36
46. B.Text. (Tech.)		41	1	42
47. B.Arch.		32	—	32
48. B.Pharm.		26	1	27
49. B.Sc. (Tech.)—Text. Chemistry		7	—	7
50. Diploma in Low Costing Housing		4	—	4
51. LL.M.		5	2	7
52. LL.B. (Special)		83	20	103
53. LL.B. (General)		111	28	139
54. D.T.P.		42	5	47
55. D.L.P.		29	14	43
56. M.A. (Fine)		19	—	19
57. M.Mus.		4	—	4
58. B.A. (Fine)		19	—	19
59. B.Mus.		16	—	16
60. M.Sc. (Home)		39	6	45
61. B.Sc. (Home)		164	45	209
62. Diploma in Pre-School Edu.		18	1	19
63. M.S.W.		31	4	35
64. Diploma in I.R.P.M.		1	12	13
Total		3925	664	4589

Statement showing the number of Teaching Staff of various Faculties and Institutions as on 31st March, 1981

Sr. No.	Faculty/Institution	Pro- fessor	Readers	Lecturers and Teaching Assistants	Assistant Lecturers Senior/ Junior Instructors	Honorary Part-time Research and Others	Total
1	2	3	4	5	6	7	8
1.	Arts	12	22	63	—	3	100
2.	Science	18	36	138	—	—	192
3.	Edu. and Psy.	4	11	21	—	—	36
4.	Commerce	6	10	19	—	—	35
5.	Tech. and Engg.	31	54	135	1	17	238
6.	Fine Arts	4	7	22	—	2	35
7.	Home Science	2	7	35	—	1	45
8.	Social Work	1	3	7	—	—	11
9.	Law	1	4	—	—	11	16
10.	Oriental Institute	1	1	5	—	—	7
11.	College of Indian Music, Dance and Dramatics	4	3	30	—	5	42
12.	Baroda Sanskrit Mahavidyalaya	1	—	5	6	5	17
13.	Polytechnic	—	5	82	6	—	93
14.	M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	22	—	1	23
Total		85	163	584	13	45	890

List of Students qualifying for Ph.D. Degree during the year 1980-81

Sr.No.	Name	Subject	Title of the Thesis
Faculty of Arts			
1.	Shri Shirish Jagjivandas Panchal	Gujarati	Kavyarachnani Ketlik Moolbhoot Samasyao.
2.	Smt. Lata Arun Rede	Economics	Structure of Profit Rates in Indian Manufacturing Industries.
3.	Shri Tyda Divakar Rao	Economics	Burden of Indian Taxation.
4.	Smt. Sarojben Kailashchandra Vora	Hindi	Adhunik Hindi Jain Sahitya (1850 A.D. to 1979 A.D.).
5.	Shri Waman Vana Ahire	Hindi	Swatantratar Hindi Upanyaso Me Rajnitik Chetna. Ek Sarvekshan (1947-74).
6.	Shri Rakesh Gokulnand Tailang	Hindi	Lakshminarayanlal aur Unka Natya Sahitya.
7.	Shri Rajankumar Ramubhai Raval	English	The treatment of the sublime Byron and Turnor—some Aesthetic and Thematic Parallels.
8.	Shri Tanajirao Dnyandeo Thorat	Geology	Geological studies on the Coastline between Jamnagar and Okha madhi in Saurashtra with special reference to Geomorphology and Meotectonism.
9.	Shri Jaiprakash Madhavrao Shirke	Geology	Geology of the fireday deposits of Saurashtra, Gujarat with special reference to their occurrence, origin and industrial applications.
10.	Shri Shailesh Rameshchandra Nayak	Geology	Geology of the Bauxite deposits of Kutch and Valsad Districts with special reference to their mode of occurrence, genesis and Economic Utility.
11.	Kumari Harsha Vishnuprasad Desai	Bio-Chemistry	Studies on origin metabolism in germinating seeds.
12.	Shri Ashok Balkrishnan Kulkarni	Bio-Chemistry	Brean acetylcholine metabolism in malnourished rats.

Sr.No.	Name	Subject	Title of the Thesis
13.	Shri Narayanam Ventakeshwara Rao	Biochemistry	Nitrogen Metabolism in relation to age and nutritional Status.
14.	Shri A. Deva Shobhana Raj	Biochemistry	Studies on the regulation of Diamine oxidase in germinating Pea seeds.
15.	Smt. Ila Jitendra Dave	Biochemistry	Nutritional Studies during pregnancy and lactation.
16.	Kum. Pushpa Pritamdas Bhagwanani	Botany	Floristics and vegetational study of the Gujarat Coast (Cambay to Umergaon).
17.	Shri Sudhir Narayanrao Patil	Botany	Studies on the residual urban vegetational systems at Baroda.
18.	Shri G. Ravishankar	Botany	Enzymatic studies on the regulation of Nicotine Bioge. Chesism cultured Tissues of Tobacco.
19.	Shri Jaimin Vithaldas Joshi	Botany	A study of the Flora of Surat and its environ.
20.	Shri Balmukund Sunderlal Mehta	Botany	Autecological studies on some weeds.
21.	Shri Pradeep Madhavrao Pitke	Chemistry	Studies on Thamasind Kernel Oil.
22.	Shri Ghanshyam Hathibhai Patel	Chemistry	Study of measramphism and mixed mesomorphia stata.
23.	Shri Prashant Vinayak Thakore	Chemistry	Studies in Synthesis of Quinoline derivati Obs.
24.	Shri Mukundkumar Chhabildas Doshi	Chemistry	Studies with Ion Exchangers.
25.	Shri Ravjibhai Jivrajibhai Patolia	Chemistry	Studies in the Synthesis of Benzo-y pyrone derivatives.
26.	Shri Kishore Madhukar Saplay	Chemistry	Photochemistry of some organic molecules.
27.	Shri Ashok Gursurnlal Bajaj	Chemistry	Chemistry of some crudeayurvedic drugs.
28.	Shri Hemantkumar Amablal Patel	Chemistry	Insect Juvenile hormonemimics.
29.	Shri K. J. Chakoo	Physics	Study of the spectra of diatome molecules BiF, Sbo and Sbo.

Sr.No.	Name	Subject	Title of the Thesis
30.	Shri Dilip Purushottam- das Ahalpara	Physics	The study of Collective Bands of Hole States in Nuclei with N. 2828 and of High Spin State in Nuclei with N-28 and 29.
31.	Kumar. Prempal Gill	Microbiology	Metabolic alterations during biotin, deficiency in <i>Aspergillus Nibulans</i> .
32.	Shri Kanubhai Antol- bhai Patel	Microbiology	Role of Pigment in bacteria on Phage bacterium interaction.
33.	Kumari Gopa Hari- nendra Majmudar	Microbiology	Studies on ripeness and storage of mangoes.
34.	Shri Harshvardhan Bhanushanker Mehta	Microbiology	Studies on riboflavin synthesis by <i>Eromothecium ashbyii</i> .
35.	Kumari Smriti Iyengar	Zoology	Studies on the relationship of post hatching development of brain with the duration of nestling period in altricial birds.
36.	Shri Thomas Varughese	Zoology	Certain Physiological and endo- crinological aspects of lizard tail regeneration.

Faculty of Education and Psychology

37.	Shri Gordhanbhai Haribhai Patel	Education	An investigation to study the attitude of the teacher educators towards the programmes of non-formal Education leading to life long Educa- tion in the State of Gujarat.
38.	Shri Prafullakumar Sreechandran	Education	Effect of various treatments on the acquisition of teaching skills through microteaching.
39.	Kumari Vasumati Chimanlal Vyas	Education	Factors affecting the teacher morale.
40.	Kumari Aram Pirasert Hirunval.	Education	A study of Pupils self concept academic motivation class room climate and academic performance.
41.	Smt. Kalpana Ramesh- chandra Parlikar	Education	A study of Suitability of Pro- grammed learning in Home-science Education for adolescent girls.

Sr.No.	Name	Subject	Title of the Thesis
42.	Smt. Stella Soundararaj	Education	Development of Curriculum on population Education for Colle- giate Students.
43.	Shri Indravadan Umiyashanker Trivedi	Education	Use of branding variety of pro- grammed learning materials in mathematics as diagnostic and Remedial Tools.
44.	Shri Kuneni Adinarayana Reddiah	Education	A teaching strategy for developing appropriate skills required students for conducting scientific investiga- tion.
45.	Shri Satvir Pitam Sing	Education	A study of preparatory science Examination of M. S. University of Baroda for the year 1974-75.
46.	Shri Bichitra Ramadev Biswal	Education	A study of correspondence Educa- tion in Indian Universities.
47.	Kum. Rohini Bhartrao Salunke	Education	A study of the Home Environment Socio Economic Status and economic status and economic management in relation of the Academic Achievement of the fruit, year College of M. S. University, Baroda.
48.	Shri Manibhai Shivabhai Patel	Education	A study of innovative trends of Secondary and Higher Secondary School Teachers.
49.	Smt. Pratibha Prabhakar Veerkar	Education	A study of the effect of Integrated approach of teaching social studies on the performance of the pupils of four standard of the primary schools.
50.	Smt. Suneethi Jitendranath Bakshi	Education	Crisis in School. A study of factors hindering school improvement pro- grammes.
51.	Shri Rufus John Roshiah	Education	A critical study of the perceptions of College communities about desirability and feasibility of intro- ducing semester system in their colleges in the city of Baroda.

Sr.No.	Name	Subject	Title of the Thesis
52.	Shri Mohan Rao	Education	A critical study of the implimentation of some innovations in higher education in the Andhra State.
53.	Kumari Neelakantan Thangam	Education	Ah experimenta study of c assroom climate.
54	Smt. Arnepalli Satyavati	Education	A study of process in Adoption and discontinuance of innovations in school.
55.	Shri Homchaudhary Soumyenda	Education	A analytical study of the correlaties of academic performance of college students (tribal) of Mizaram.
56.	Smt. Akhitar	Education	A critical study of the semester system of selected Universities in India.
57.	Shri R. Sweety Prem Kumar	Psychology	A study of Motivationa and personality factors influency consumers.

Faculty of Commerce

58.	Kum. Manda Ramlal Parikh	Economics	A critique of Foreign Trade policy a Developing country with special reference of India.
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Faculty of Medicine

59.	Shri Venugopal K. Pillai	Pharmacology	Ganglioni Mechanisms of some Drugs.
60.	Shri Shashikant Ramanlal Patel	Pharmacology	Some aspects of the pharmacology of goat tissues.
61.	Shri Nanduri Ramchandra Prabhakar	Physiology	Cardiovascular and Respiratomy Changes during urinary Bladder Disten in Dogs.

Faculty of Technology and Engineering

62.	Shri Abraham K. George	Applied Physics	Ultrasonic studies in some Thermo-trophic Liquid crystals and liquid crystalline Mixtures.
63.	Shri P. A. Varkey	Applied Physics	Study of Ultrasonic velocity and Absorption in some Alloys.

Sr.No.	Name	Subject	Title of the Thesis
64.	Smt. Urvashi Amritlal Mashu	Applied Chemistry	Liquid Crystal-study of the Mesomorphic State.
65.	Shri Harshad Kumar Ambalal Vyas	Applied Chemistry	Pyrolysis of Polychelates.
66.	Shri Vikram Singh Parmar	Architecture	Wooden Architecture of Gujarat.
Faculty of Home Science			
67.	Kum. Geeta Jagannath Goyal	Education and Extension Education	A study of Teachers Problems Attitudes and output related to the Research in Agricultural Universities in India.
Faculty of Social Work			
68.	Shri Harshad Mahashanker Rajyagare	Social Work	Socio-economic status invidual modernity and acceptance of Family Planning a study of mothers of Chil.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*44. M.D. Branch-X (Radio Diagnosis)	2											2						2	100%
*45. M.S. Branch-I (Surgery)	7						2					3						3	42.80%
*46. M.S. Branch-III (Orthopaedics)	9						9					2						2	22.22%
*47. M.S. Branch-IV (Oto-Rhino-Lary.)	1						1					1						1	100%
*48. M.S. Branch-V (Ophthalmology)	2						2					1						1	50.00%
*49. I M.B.B.S.	85	2	71	12	83							55					65	78.31%	
*50. II M.B.B.S.	135	2	111	22	133							105					125	93.98%	
*51. III M.B.B.S.	31		33	4	37							23					27	72.96%	
*52. F.Y.B.Physiotherapy	25		3	22	25							3					15	60.00%	
*53. S.Y.B.Physiotherapy	18		1	17	18												15	83.33%	
*54. T.Y.B.Physiotherapy	13		1	12	13												10	76.92%	
*55. M.Sc. (Medical—Part I)	3		2	1	3							2					1	100%	
*56. M.Sc. (Medical—Part II)	6		4	2	6							4					5	83.33%	
*57. F.Y.B.Physiotherapy—July 80	10			10	10												7	70.00%	
*58. S.Y.B.Physiotherapy—July 80	3		1	2	3							2					2	66.66%	
*59. D.O.	5	1	3	1	4							3					3	75.00%	
*60. D.A.	3		1	3													3	100%	
*61. D.L.O.	1		1		1													3	100%
*62. D.M.R.D.—I	3		3		3							3					2	100%	
*63. D.V.D.	2		2		2							2					1	100%	
*64. T.D.D.	1		1		1							1					Nil	00.00%	
*65. D.C.P.	2		2		2							2					6	85.71%	
66. D.G.O.	7		7		7							4					4	80.00%	
67. D.C.H.	5		5		5							4					13	81.25%	
68. F.Y.Dip. (CME)—O.C.	16		16		16							13					48	68.57%	
69. F.S. F.Y.Dip. (CME)—O.C.	71	1	70		70							48					40	43.95%	
70. S.S. F.Y.Dip. (CME)—O.C.	95	4	91		91							40					36	80.00%	
71. F.S. S.Y.Dip. (CME)	46	1	45		45							36					297	92.81%	
72. S.S. S.Y.Dip. (CME)	320		318	2	320					65	128	102	295				65	57.26%	
73. S.Y.Dip. (CME)—O.C.	78	4	74		74							65					65	84.07%	

*No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
74. D.C.E.	122	8	114				114			38	35	22	95					95	84.07%
75. D.M.E.	338	8	339				330			132	97	65	294					294	89.09%
76. D.E.E.	169	7	162				162			14	27	66	107					107	66.05%
77. D.T.C.	92	3	89				89			18	44	11	73					73	82.13%
78. D.T.T.	22		22				22			8	9	2	19					19	86.36%
79. F.S. S.Y.Dip (CME)—EDC	99	5	94				94			15	25	45	85					85	57.82%
80. S.S. S.Y.Dip. (CME)—EDC	149	2	147				147						6					6	54.54%
81. F.S. Final (DCE)—EDC	12	1	11				11						11					11	84.06%
82. F.S. Final (DME)—EDC	21	7	14				14						5					5	15.62%
83. F.S. Final (DEE)—EDC	42	7	35				35			3	5	4	12					12	80.00%
84. S.S. Final (DCE)—EDC	19	4	15				15			28	21	8	57					57	93.04%
85. S.S. Final (DME)—EDC	70	9	61				61			7	5	6	18					18	41.86%
86. S.S. Final (DEE)—EDC	56	9	47				47			9	19	20	48					49	82.60%
87. F.S. F.Y.Dip. (PCT)	23	22	1	23			23			6	14	10	30					30	75.00%
88. S.S. F.Y.Dip. (PCT)	62	1	62				62			20	14	8	42					43	93.47%
89. F.S. S.Y.Dip. (PCT)	7		7				7			9	19	20	48					3	96.77%
90. S.S. S.Y.Dip. (PCT)	46		45				45			6	14	10	30					38	100%
91. F.S. T.Y.Dip. (PCT)	4		4				4			6	14	10	30					1	100%
92. S.S. T.Y.Dip. (PCT)	31		31				31			36	2		38					5	83.33%
93. S.S. Final Dip. (PCT)	38		38				38			1	1	3	5					3	60.00%
94. F.S.P.Dip. Ref.—Air-Cond.	1		1				1			6	1	3	5					9	75.00%
95. S.S.P.Dip. Ref.—Air-Cond.	6		6				6			5	3	6	9					1	14.28%
96. F.S. Final Dip. Prod. Engg.	5		5				5			12	7	7	1					7	63.33%
97. S.S. Final Dip. Prod. Engg.	12		12				12			3	6	1	3					25	76.62%
98. F.S. Final Dip. Ind. Elect.	7		7				7			3	1	3	7					9	81.81%
99. S.S. Final Dip. Ind. Elect.	13	2	11				11			37	5	15	21	18	59			62	89.85%
100. F.S. F.Text. (Engg. & Tech.)	38	1	37				37			77	11	11	29	10				4	66.66%
101. S.S. F.Text. (Engg. & Tech.)	79	2	77				77			8	15	29	10					4	66.66%
102. F.S. S.Text. (Engg. & Tech.)	14	3	11				11			69	8	15	29	10				4	66.66%
103. S.S. S.Text. (Engg. & Tech.)	72	3	69				69			6	6	6	6					6	84.07%
104. F.S. T.Text. (Engg. & Tech.)	6		6				6											6	100%

Results of the University Examinations of October, 1980

Sr. No.	Examination	Number Passed																			Percentage of passes
		Number appeared									Number Passed										
		Men									Women										
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		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	XX		
1.	Preparatory Arts	43	4	33	6	39	—	—	—	26	26	—	—	—	—	—	26	—	—	26	66.66%
2.	F.Y.B.A.	479	41	227	211	438	—	—	—	64	64	—	—	—	—	—	83	—	—	147	33.57%
*3.	S.Y.B.A.	324	43	175	106	281	—	—	—	86	86	—	—	—	—	—	59	—	—	145	51.60%
4.	T.Y.B.A.	215	37	118	60	178	—	—	1	60	61	—	—	—	—	—	29	—	—	90	50.85%
*5.	M.A.—Part I	38	7	16	15	31	—	—	—	7	7	—	—	—	—	—	12	—	—	19	61.29%
6.	M.A.—Part II	13	2	3	8	11	—	—	1	3	4	—	—	1	—	—	—	—	—	6	54.54%
7.	Preparatory Commerce	8	2	6	—	6	—	—	—	3	3	—	—	—	—	—	—	—	—	3	50.00%
8.	F.Y.B.Com.	783	65	515	203	718	—	—	1	221	222	—	—	—	—	—	86	—	—	308	42.80%
*9.	S.Y.B.Com.	366	62	227	77	304	—	—	—	94	94	—	—	—	—	—	34	—	—	128	42.11%
10.	T.Y.B.Com.	286	62	142	64	206	—	—	4	34	38	—	—	—	—	—	10	—	—	48	23.30%
*11.	M.Com.—Part I	42	16	20	6	26	—	—	—	17	17	—	—	—	—	—	1	—	—	18	19.23%
12.	M.Com.—Part II	19	5	12	2	14	—	—	—	5	11	—	—	—	—	—	2	—	—	13	92.86%
13.	P.G. Diploma in Banking	4	2	2	—	2	—	—	1	1	1	—	—	—	—	—	—	—	—	2	100%
14.	P.G. Diploma in Co-operation	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	1	33.33%

*No Class is awarded.

Sr. No.	Examination	Number Passed																			Percentage of passes
		Number appeared									Number Passed										
		Men									Women										
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		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	XX		
15.	F.Y.B.Sc.	175	14	131	30	161	—	—	—	4	62	66	—	—	—	—	12	—	—	78	48.45%
*16.	S.Y.B.Sc.	127	14	84	29	113	—	—	—	—	58	58	—	—	—	—	18	—	—	76	67.22%
17.	T.Y.B.Sc.	94	17	64	13	77	—	—	—	8	24	32	—	—	—	—	4	—	—	38	50.00%
*18.	M.Sc. (Previous)	24	2	20	2	22	—	—	—	1	15	15	—	—	—	—	1	—	—	16	72.73%
19.	M.Sc. (Final)	5	1	3	1	4	—	—	—	—	—	—	—	—	—	—	—	—	—	2	50.00%
*20.	M.D. (Branch I—Medicine)	17	—	16	1	17	—	—	—	—	10	10	—	—	—	—	1	—	—	11	44.00%
*21.	M.D. (Branch II)—Pathology	6	—	3	3	6	—	—	—	—	—	—	—	—	—	—	2	—	—	2	33.33%
*22.	M.D. (Branch III)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
*23.	M.D. (Branch V—Obst. & Gyn.)	5	—	5	—	5	—	—	—	—	5	5	—	—	—	—	—	—	—	5	100%
*24.	M.D. (Branch VI—Paediatrics)	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	2	—	—	3	75.00%
*25.	M.D. (Branch VII—Anaesthesia)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	1	50.00%
*26.	M.D. (Branch IX—Radio Diagnosis)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	1	50.00%
*27.	M.S. (Branch I—Surgery)	12	—	12	—	12	—	—	—	—	7	7	—	—	—	—	—	—	—	7	100%
*28.	M.S. (Branch III—Orthopaedics)	10	—	10	—	10	—	—	—	—	—	—	—	—	—	—	—	—	—	3	30.00%
*29.	M.S. (Branch IV—Oto-Rhino-Laryngology)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
*30.	M.S. (Branch V—Ophthalmology)	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
*31.	Diploma in Ophthalmology	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	2	—	—	4	80.00%
*32.	Diploma in Anaesthesiology	5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	2	—	—	5	100%
*33.	Diploma in Laryngology & Otology	5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	2	—	—	4	80.00%
*34.	Diploma in Child Health	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	1	—	—	4	100%
*35.	Diploma in Tuberculous Diseases	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
*36.	Diploma in Clinical Pathology	4	—	4	—	4	—	—	—	—	—	—	—	—	—	—	—	—	—	2	50.00%
*37.	Dip. in Obstetrics & Gynaecology	6	—	6	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	3	50.00%
*38.	Dip. in Medical Radio Diagnosis — Part I	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
*39.	Diploma in Medical Radio Diagnosis — Part II	5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	1	30.00%
*40.	Diploma in Public Health	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
*41.	M.Sc. (Medical)—Part I	12	—	12	—	12	—	—	—	—	—	—	—	—	—	—	—	—	—	3	83.33%

*No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*42. M.Sc. (Medical)—Part II	10				2	8	10				1	1				8	8	9	90.00%
*43. First M.B.B.S.	27				23	4	27				17	17				3	3	20	74.07%
*44. Second M.B.B.S.	26			1	21	4	25				20	20				4	4	24	00.00%
*45. Third M.B.B.S.	136				117	19	136				90	90				18	18	108	79.41%
*46. T.Y.B. Physiotherapy	2					2	2									2	2	2	100%
47. F.Y. Diploma (CME)—O.C.	5			2	3		3				1	1						1	33.33%
48. I Sem. of F.Y.Dip. (CME)—1978-79	23			23			23				5	5						5	21.73%
49. I Sem. of F.Y.Dip. (CME)—1979-80	36			1	35		35				20	20						20	55.00%
50. I Sem. of F.Y.Dip. (CME)—1980-81	349				338	11	349				253	253				10	10	263	76.23%
51. II Sem. of F.Y.Dip. (CME)—1978-79	46			3	43		43				13	13						13	30.23%
52. II Sem. of F.Y.Dip. (CME)—1979-80	46			2	44		44				22	22						22	50.00%
53. S.Y. Dip. (CME)—O.C.	9			1	8		8				4	4						4	50.00%
54. I Sem. of S.Y.Dip. (CME)	630				622	8	630				505	505				8	8	513	81.42%
55. II Sem. of S.Y.Dip. (CME)	20				20		20				9	9						9	45.00%
56. Diploa in Civil Engineering	25			10	15		15				4	4						9	60.00%
57. I Sem. of Final D.C.E.	106				106		106				94	94						94	88.06%
58. Diploma in Mechanical Engineering	46			10	36		36			3	2	7	12					12	33.33%
59. I Sem. of Final D.M.E.	143			2	141		141				128	128						128	91.04%
60. Diploma in Electrical Engineering	47			8	39		39				3	9	12					12	30.60%
61. I Sem. of Final D.E.E.	56			1	53	2	55				49	49				2	2	51	92.60%
62. Diploma in Textile Chemistry	17			3	14		14				5	6						6	43.85%
63. I Sem. of Final D.T.C.	83			5	78		78				62	62						62	79.46%
64. I Sem. of Final D.T.T.	35			1	34		34				32	32						32	94.01%
65. I Sem. of Final Year Diploma in Production Engineering	5				5		5				3	3						3	60.00%
66. II Sem. of Final Year Diploma in Production Engineering	4				4		4				1	1						1	25.00%
67. I Sem. of Final Year Diploma in Industrial Electronics	15			2	13		13				13	13						13	53.08%
68. I Sem. of P.D.D. Ref. & Air-Cond.	13			4	9		9				6	6						6	66.06%

*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 P.D.D. Ref. & Air Cond.					1		1				1	1						1	100%
*70. I Sem. of S.Y.Dip. (CME)—EDC	161			21	140		140				46	46						46	32.46%
71. II Sem. of S.Y.Dip. (CME)—EDC	44			10	34		34				14	14						14	41.17%
*72. I Sem. of Final D.C.E.—EDC	16			7	4	3	3				11	11						11	73.13%
*73. II Sem. of Final D.C.E.—EDC	67			9	57	1	58				37	37						38	65.51%
*74. I Sem. of Final D.M.E.—EDC	59			22	37		37				13	13						13	35.13%
75. II Sem. of Final D.E.E.—EDC	23			15	8		8				3	3						3	37.05%
*76. I Sem. of Final D.E.E.—EDC	62			2	59	1	60				43	43						43	71.06%
78. II Sem. of F.Y.Dip. (PCT)	10			1	9		9				1	1						1	12.60%
*79. I Sem. of S.Y.Dip. (PCT)	64				63	1	64				53	53						54	84.37%
80. II Sem. of S.Y.Dip. (PCT)	2				2		2				1	1						1	50.00%
*81. I Sem. of T.Y.Dip. (PCT)	46				45	1	46				33	33						34	84.37%
*82. I Sem. of Final Year Dip. (PCT)	30				30		30				30	30						30	100%
84. II Sem. of F.Text. (Engg. & Tech.)	74			2	72		72				45	45						45	62.00%
*85. I Sem. of F.Text. (Engg. & Tech.)	11			1	10		10				5	5						5	50.00%
86. II Sem. of S.Text. (Engg. & Tech.)	76			2	74		74				64	64						64	86.48%
*87. I Sem. of T.Text. (Engg.)	8			3	5		5				4	4						4	80.00%
*88. II Sem. of T.Text. (Engg.)	42				42		42				32	32						32	76.19%
89. I Sem. of T.Text. (Tech.)	2				2		2				1	1						1	50.00%
*90. I Sem. of B.Text. (Engg.)	30			1	29		29				27	27						27	90.00%
91. II Sem. of B.Text. (Engg.)	45				45		45				42	42						42	93.33%
*92. I Sem. of B.Text. (Tech.)	3				3		3				1	1						2	66.67%
93. II Sem. of B.Text. (Tech.)	26			1	25		25				24	24						24	96.00%
*94. I Sem. of B.E. I (CME, Chem., Met.)	2				2		2				1	1						1	50.00%
95. II Sem. of B.E. I (CME, Chem., Met.)	271			2	255	14	269				169	169						177	65.80%
	41			1	38	2	40				20	20						22	65.41%

*No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
*96.	I Sem. of B.E. II (CME, Chem., Met.)—5 Year	332	2	316	14	330	—	—	—	—	269	269	—	—	12	12	12	281	85.15%
97.	II Sem. of B.E. II (CME, Chem., Met.)—5 Year	79	1	77	1	78	—	—	—	—	34	34	—	—	2	2	2	36	48.75%
*98.	I Sem. of B.E. I (CME, Chem., Met.)—4 Year	218	—	203	15	218	—	—	—	—	140	140	—	—	11	11	11	151	69.26%
*99.	I Sem. of B.E. III (CME, Chem., Met.)—5 Year	426	6	417	3	420	—	—	—	—	332	332	—	—	3	3	3	335	79.76%
100.	II Sem. of B.E. III (CME, Chem., Met.)—5 Year	29	—	29	—	29	—	—	—	—	13	13	—	—	—	—	—	13	44.82%
*101.	I Sem. of B.E. II (CME, Chem., Met.)—4 Year	29	—	27	2	29	—	—	—	—	25	25	—	—	2	2	2	27	93.10%
102.	II Sem. of B.E. II (CME, Chem., Met.)—4 Year	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*103.	I Sem. of B.E. IV (CME, Chem., Met., Electro.)—5 Year	330	1	318	11	329	—	—	—	—	290	290	—	—	11	11	11	301	91.49%
104.	II Sem. of B.E. IV (CME, Chem., Met., Electro.)—5 Year	22	3	18	1	19	—	—	—	—	6	6	—	—	1	1	1	7	36.84%
*105.	I Sem. of B.E. III (CME, Chem., Met., Electro.)—4 Year	57	—	57	—	57	—	—	—	—	56	56	—	—	—	—	—	56	98.25%
*106.	I Sem. of B.E. V (Civil)	122	—	121	1	122	—	—	—	—	120	120	—	—	1	1	1	121	99.17%
*107.	I Sem. of B.E. V (Mechanical)	104	—	104	—	104	—	—	—	—	102	102	—	—	—	—	—	102	98.00%
*108.	I Sem. of B.E. V (Electrical)	54	—	52	2	54	—	—	—	—	51	51	—	—	2	2	2	53	99.03%
*109.	I Sem. of B.E. V (Chemical)	40	—	40	—	40	—	—	—	—	38	38	—	—	—	—	—	38	80.00%
*110.	I Sem. of B.E. V (Metallurgy)	30	—	30	—	30	—	—	—	—	30	30	—	—	—	—	—	30	100%
*111.	I Sem. of B.E. V (Electronics)	31	—	28	3	31	—	—	—	—	27	27	—	—	3	3	3	30	96.07%
112.	II Sem. of B.E. V (Mechanical)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	1	100%
113.	II Sem. of B.E. V (Chemical)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*114.	I Sem. of B.Tech. (Mech.)— Sandwich Course	3	—	3	—	3	—	—	—	—	3	3	—	—	—	—	—	3	100%

*No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
*115.	I Sem. of B.Tech. (Elect.)— Sandwich Course	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	3	100%
*116.	I Sem. of B.Tech. (Metallurgy)— Sandwich course	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	3	100%
*117.	I Sem. of Final B.E.—Part-time Degree Course	7	—	7	—	7	—	—	—	—	—	—	—	—	—	—	—	—	3	100%
118.	II Sem. of Final B.E. (Civil)—P.T.D.	14	—	14	—	14	—	—	—	—	6	6	—	—	—	—	—	—	6	85.71%
119.	II Sem. of Final B.E. (Mech.)—P.T.D.	14	—	14	—	14	—	—	—	—	2	—	—	—	—	—	—	—	14	100%
120.	II Sem. of Final B.E. (Elect.)—P.T.D.	27	—	27	—	27	—	—	—	—	6	—	—	—	—	—	—	—	14	100%
*121.	I Sem. of B.E. I (Electronics)	20	—	16	4	20	—	—	—	—	4	16	—	—	—	—	—	—	16	80.00%
*122.	II Sem. of B.E. I (Electronics)	5	—	5	—	5	—	—	—	—	4	4	—	—	—	—	—	—	16	80.00%
*123.	I Sem. of B.E. II (Electronics)	27	—	25	2	27	—	—	—	—	4	17	—	—	—	—	—	—	4	80.00%
*124.	II Sem. of B.E. II (Electronics)	8	—	8	—	8	—	—	—	—	17	17	—	—	—	—	—	—	4	80.00%
*125.	I Sem. of B.E. III (Electronics)	22	—	22	—	22	—	—	—	—	5	5	—	—	—	—	—	—	19	70.37%
*126.	M.E. (CME, Met.)—Part I	55	4	51	—	51	—	—	—	—	17	17	—	—	—	—	—	—	5	62.05%
*127.	M.E. (CME, Met.)—Part II	5	—	5	—	5	—	—	—	—	40	40	—	—	—	—	—	—	17	77.27%
*128.	M.E. (CME, Met.)—Part III	32	—	30	2	32	—	—	—	—	5	5	—	—	—	—	—	—	5	100%
129.	M.E. (CME, Met.)—Part IV	13	—	13	—	13	—	—	—	—	15	15	—	—	—	—	—	—	17	68.00%
*130.	M.E. (Petrochemical)—Part I	2	—	2	—	2	—	—	—	—	4	9	—	—	—	—	—	—	13	100%
*131.	M.E. (Petrochemical)—Part II	3	—	3	—	3	—	—	—	—	1	1	—	—	—	—	—	—	1	50.00%
*132.	M.Text. (Engg.)—Part I	4	—	4	—	4	—	—	—	—	3	3	—	—	—	—	—	—	3	100%
*133.	M.Text. (Engg.)—Part III	6	—	6	—	6	—	—	—	—	4	4	—	—	—	—	—	—	4	100%
134.	M.Text. (Engg.)—Part IV	1	—	1	—	1	—	—	—	—	6	6	—	—	—	—	—	—	6	100%
*135.	I Sem. of M.Sc. (Applied Physics)	11	—	9	2	11	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
*136.	II Sem. of M.Sc. (Applied Physics)	4	—	4	—	4	—	—	—	—	5	5	—	—	—	—	—	—	7	63.63%
*137.	III Sem. of M.Sc. (Applied Physics)	9	—	72	2	9	—	—	—	—	4	4	—	—	—	—	—	—	4	100%
138.	IV Sem. of M.Sc. (Applied Physics)	1	—	1	—	1	—	—	—	—	3	3	—	—	—	—	—	—	5	55.55%
*139.	I Sem. of M.Sc. (Applied Chemistry)	30	—	26	4	30	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
*140.	III Sem. of M.Sc. (Applied Chemistry)	8	—	6	2	8	—	—	—	—	6	6	—	—	—	—	—	—	27	90.00%

*No Class is awarded.

CAPITAL ACCOUNTS

Appendix VIII

I—University General Fund

(Subject to Audit)

1980-81

<i>Receipts</i>	<i>Rs.</i>	<i>P.</i>	<i>Payments</i>	<i>Rs.</i>	<i>P.</i>
Opening Balance as on 1-4-1980	10,60,137-19		Building Works	17,697-13	
Interest			Closing Balance	22,92,340-13	
Compensation from Baroda Municipal Corporation for Land of Survey No. 639	1,74,095-27				
Grant from the State Government towards works of original nature approved by the Government	10,00,000-00				
Total	23,10,037-26			23,10,037-26	

xxviii

II—Ayurvedic Research Fund

Opening Balance as on 1-4-1980	12,20,462-43		Amount transferred towards the excess recurring expenditure over the State Government Grant during the year	90,861-44	
Interest	1,10,064-99		Closing Balance	12,39,665-98	
Total	13,30,527-42		Total	13,30,527-42	

III—Post-graduate Instruction and Research Fund

(Subject to Audit)

1980-81

<i>Receipts</i>	<i>Rs.</i>	<i>P.</i>	<i>Payments</i>	<i>Rs.</i>	<i>P.</i>
Opening Balance	50,77,077-43		(i) Expenditure on Research Schemes (including Research Assistants)	80,966-47	
Interest	4,95,514-49		(ii) Two Post-Doctoral Fellowships @ Rs. 400/- p.m. each and Contingency Grant @ Rs. 1,000/- p.a. each	9,996-90	
			(iii) 12 Scholarships of Rs. 250/- p.m. and Contingent Grant of Rs. 500/- p.a. per Scholar	7,371-14	
			(iv) Closing Balance	54,74,257-41	
Total	55,72,591-92		Total	55,72,591-92	

xxix

REVENUE ACCOUNTS

(Subject to Audit)

1980-81

Sr. No.	Particulars	Receipts		Sr. No.	Particulars	Disbursements	
		Rs.	P.			Rs.	P.
1	2	3	1	2	3	4	
I (A)	Grants from the State Government	2,65,29,733-00		I	University General Administration	15,43,434-38	
(1)	Block Grant from the State Government	2,11,18,763-00		II	Examination Charges (1 to 13)	10,55,521-56	xxx
(2)	Additional Block Grants from the State Government	54,10,970-00		III	Publications	78,358-70	
(a)	Towards the Expenditure on Development Plan Schemes which have completed five years stipulated period and hence become 100% liability of the State Government:			IV	Remuneration to Lecturers	—	
(i)	Vishnupuran Department (from 1-4-1979)	1,00,000-00		V	Travelling Allowance	1,08,386-25	
				VI	Printing, Stationery and Postages	1,60,943-68	
				VII	Interest on Bank Overdraft and also Interest on Balances of Funds not Invested due to Financial Stringency	6,41,125-52	
				VIII	Maintenance of Buildings and Roads (including Residential Quarters and N.C.C. Buildings)	5,79,526-92	
	(ii) Introduction of Degree Course in Pharmacy (Faculty of Technology and Engineering) (from 1-7-1978 and onwards)			IX	Maintenance of Gardens	1,05,869-28	
	(iii) Special Assistance to Bio-Chemistry Department (Faculty of Science) (from 1-4-1979)			X	Games, Sports and Students' Welfare and other Activities	9,49,345-35	
	(b) 100% Grant towards the additional expenditure on increase in the rates of Dearness Allowance, House Rent Allowance and Compensatory Local Allowance during the Currency of the triennium		52,900-00	XI	Miscellaneous (A, B and C)	3,12,502-47	
	(c) 3½% Wage Bill Grant on the Wage Bill of the Proceeding year on a cumulative basis during each year of the triennium for annual increments etc.		19,32,946-00	(A)	Memberships and Contribution	26,751-49	
	(d) For additional intake of 100 students in Extended Diploma in Civil, Mechanical and Electrical Engineering (Polytechnic)		18,82,700-00	(B)	Office Equipment	7,201-36	
	(e) For Five Semester Post-Higher Secondary (Std. XII) Science Stream Diploma in Civil, Mechanical and Electrical Engineering (Polytechnic)		—	(C)	Other Items	2,78,549-62	
				XII	Faculties and Institutions :	3,01,95,153-02	
					Faculties :		
				(a)	Faculty of Arts	27,32,955-06	
				(b)	Faculty of Science	59,88,459-77	
				(c)	Faculty of Education and Psychology	15,89,035-50	
				(d)	Faculty of Commerce	13,91,064-27	
				(e)	(i) Faculty of Technology and Engineering	76,48,821-85	
					(ii) Introduction of Degree Courses in Pharmacy	3,58,946-70	
					(iii) Part-time Degree Courses for Diploma Students in C.M.E.	1,34,680-49	
				(f)	Faculty of Law	3,18,138-77	
				(g)	Faculty of Fine Arts	12,41,708-78	
				(h)	Faculty of Home Science	17,11,245-93	

(f)	For additional Staff for additional 600 admissions given in the F.Y.B.Com. Class	1,20,000-00	(i) Faculty of Social Work	5,88,782-60
(g)	Towards works of Ordinary Repairs to Buildings	2,00,000-00	Institutions :	
(h)	Towards the approved works of Special Repairs to University Buildings	5,50,000-00	(j) (i) Oriental Institute	3,63,930-72
(i)	Towards expenditure on Leave Travel	5,22,424-00	(j) (ii) Vishnupurana Department	1,21,429-56
(j)	Concession to the University employees	50,000-00	(k) College of Indian Music, Dance and Dramatics	11,61,607-81
(k)	Towards Revival of vacant posts in the Polytechnic	—	(l) Sanskrit Mahavidyalaya	1,85,821-68
	Towards Payment of Washing Allowance to Class IV Employees	—	(m) Shri M. K. Amin Arts and Science College and College of Commerce, Padra	7,76,383-40
		—	(n) Polytechnic	35,10,922-17
(B)	Grant from the University Grants Commission towards the Grants Commission Unit in the University	12,000-00	(1) Extended Diploma courses in Civil, Mechanical and Electrical Engineering	97,993-74
		96,28,894-05	(2) Additional intake of 100 Students (Extended Diploma in Civil, Mechanical and Electrical Engineering courses)	25,038-42
(A)	Academic :	—	(3) Five Semester Post-Higher Secondary (Std. XII) Science Stream Diploma course in Civil, Mechanical and Electrical Engineering	63,552-03
(i)	Tuition Fees and Miscellaneous Income from Faculties and Institutions	78,98,946-86		
		8,28,529-30		
	Faculties :			
(a)	Faculty of Arts			

(b)	Faculty of Science	10,33,970-59	(o) Centre of Advance Study in Education	1,84,633-77
(c)	Faculty of Education and Psychology	5,94,901-00		
(d)	Faculty of Commerce	14,64,688-51	XIII (a) Smt. Hansa Mehta (University) Library	14,45,460-13
(e)	(i) Faculty of Technology and Engineering	16,71,646-06	(b) Sir Sayajirao Memorial Trust (University) Library	67,503-09
	(ii) Introduction of Degree Course in Pharmacy	69,011-00		
	(iii) Part-time Degree Course for Diploma Students in C.M.E.	1,03,166-80	XIV University Guest House	45,615-76
(f)	Faculty of Law	4,33,668-00	XV University Auxiliary Services	14,53,282-11
(g)	Faculty of Fine Arts	1,08,921-35	(a) M. S. University of Baroda Press	9,09,708-99
(h)	Faculty of Home Science	3,66,658-58	(b) M. S. University Stationery Unit	4,92,848-73
(i)	Faculty of Social Work	86,732-72	(c) M. S. University Publication Sales Unit	50,724-39
	Institutions :			
(j)	College of Indian Music, Dance and Dramatics	96,325-10	XVI Halls of Residence for Students	21,50,136-98
(k)	Sanskrit Mahavidyalaya	42-25	XVII Sheth U. P. Ayurvedic Research Unit	1,23,283-39
(l)	Shri M. K. Amin Arts and Science College and College of Commerce, Padra	4,84,916-00	XVIII Additional furniture for different Faculties	1,75,475-76
(m)	(i) Polytechnic	4,14,928-80	(a) Faculty of Commerce	1,12,210-00
	(ii) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	47,660-80	(b) Faculty of Fine Arts	49,510-90
	(iii) Extended Diploma in Civil, Mechanical and Electrical Engineering Courses (additional intake of 100 students)	14,410-00	(c) Faculty of Law	13,754-86

THE MAHARAJA SAYAJIRAO
Statement of Students Residence

Faculty/Institution	Shri K. M. Munshi Hall	Shri Manibhai Mehta Hall	Shri Maharshi Arvind Hall	Shri Sardar Patel Hall	Professor T. K. Gajjar Hall	Dr. Jivraj Mehta Hall	Lal Bahadur Shastri Hall	Shri Narservanji Yakil Hall
1	2	3	4	5	6	7	8	9
Arts	1	8	6	8	18	9	12	8
Commerce	9	15	12	15	21	31	10	17
Science	24	19	42	29	21	29	15	24
Education and Psychology	—	2	2	2	8	—	3	2
Technology and Engineering	101	100	88	102	112	102	70	78
Polytechnic	7	9	7	10	10	4	9	19
Medicine	26	17	16	11	19	17	12	5
Social Work	—	—	4	2	—	—	1	—
Fine Arts	4	15	8	10	15	6	12	18
Music	—	—	—	—	2	—	1	2
Law	1	3	1	1	2	2	5	—
Padra College	2	2	1	1	4	2	—	1
I.A.S. Training	—	—	—	—	—	—	—	—
Home Science	—	—	—	—	—	—	—	—
Total	175	190	187	191	232	202	150	174

UNIVERSITY OF BARODA
during 1980-81

Shri Radibramanath Tagore Hall	Shri M. Vishvesaraya Hall	Siddharaj Jayasinh Hall	Total	V. S. Hall	Boys Total	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandit Gargi Hall	Kasturba Gandhi Hall	Girls Total	Grand Total
10	11	12	13	14	15	16	17	18	19	20	21
8	6	12	96	18	114	21	20	14	13	68	182
45	23	35	233	8	241	15	5	11	5	36	277
38	5	39	285	44	329	40	19	42	21	122	451
—	1	1	21	19	40	18	13	5	3	39	69
—	—	—	—	26	1217	21	11	13	2	47	1264
157	136	146	1192	—	302	1	1	—	—	2	304
56	100	71	302	6	154	2	31	13	5	76	230
14	5	6	148	8	15	3	3	—	2	8	23
—	—	—	7	8	15	3	3	—	2	8	23
—	—	—	—	7	125	25	10	11	5	51	176
4	11	15	118	1	9	6	1	1	—	8	17
1	—	2	8	1	29	2	5	6	—	15	44
4	4	4	27	2	27	—	1	—	—	1	28
5	6	3	27	—	27	—	—	—	1	1	5
—	—	—	—	4	4	—	—	—	1	1	5
—	—	—	—	1	1	66	78	54	32	230	231
232	297	334	2464	143	2607	247	198	170	89	704	3311

Grants for Development and Research Scheme—1980-81

Sr. No.	Name of Agency	Grant	
		Rs.	P.
1.	University Grant Commission	55,24,342	36
2.	Ministry of Education, Government of India	4,80,855	48
3.	Council of Scientific and Industrial Research	1,96,269	33
4.	Indian Council of Social Science Research	18,896	00
5.	Government of Gujarat (Matching Grant)	3,95,000	00
6.	Government of Gujarat (Research and Other Schemes)	2,19,352	50
7.	Grant from Government of India	10,500	00
8.	United States Departments of Agriculture (AM-PL-480 Programmes)	34,056	70
9.	Central Social Welfare Board	3,49,430	00
10.	National Council of Educational Research and Training	40,736	06
11.	Gujarat Electricity Board	68,000	00
12.	Indian Council of Historical Research	9,500	00
13.	Ministry of Health	3,23,087	00
14.	Grant from Government of India National Science Academy	11,932	85
15.	Grant from Government of India, Department of Atomic Energy	55,266	00
16.	Other Bodies	1,27,249	50
Total		78,64,473	78