

33

M.S. University of Baroda

Thirty Third

Annual Report

1981-82



# ANNUAL REPORT 1981-82



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## OFFICERS OF THE UNIVERSITY

Visitor	Smt. Sharda Mukherjee, Governor of Guj.
Chancellor	Shri Fatehsinhrao Gaekwad
Vice-Chancellor	Professor S. S. Merh from 12-4-1981 to 6-12-1981 (Acting). Professor B. C. Parekh ( From 7-12-1981 )
Pro-Vice-Chancellor	Professor S. M. Sethna upto 11-4-1981
<b>Deans :</b>	
Faculty of Arts	Professor V. N. Kothari upto 2-10-1981 Professor R. N. Mehta from 3-10-1981
Faculty of Science	Professor S. S. Merh upto 6-12-1981 Professor V. V. Modi from 7-12-1981.
Faculty of Education and Psychology	Professor D. B. Desai
Faculty of Commerce	Professor H. P. Chokshi upto 31-7-1981 Professor K. C. Mehta from 1-8-1981
Faculty of Medicine	Professor O. D. Gulati
Faculty of Technology and Engineering	Professor O. H. Patel
Faculty of Law	Professor H. C. Dholakia
Faculty of Fine Arts	Professor R. K. Parimoo upto 31-7-1981 Professor J. D. Patel from 1-8-1981
Faculty of Home Science	Professor (Smt.) Amita B. Verma
Faculty of Social Work	Dr. S. R. Yardi
Registrar	Shri K. A. Amin
Librarian	Dr. L. M. Pandya
<b>Other Officers :</b>	
Director, Oriental Institute	Professor A. N. Jani upto 30-11-1981 Shri J. P. Thaker from 1-12-1981
Principal, College of Indian, Music, Dance and Dramatics	Professor M. J. Bhatt upto 31-7-1981 Professor C. V. Chandrashekhar from 1-8-1981.
Principal, Sanskrit Mahavidyalaya	Professor P. K. Dongre upto 31-7-1981 Professor J. R. Pathak from 1-8-1981
Principal, Polytechnic	Shri B. N. Shah
Principal, M. K. Amin Arts and Science College and College of Commerce, Padra	Kum. Saroj L. Sinha upto 31-7-1981 Shri R. R. Joshi from 1-8-1981
In-Charge Director, Continuing/ Adult Education and Community Services	Prof. (Kum.) Malathi Chakravorty



# annual report

## 1981-82

अक्षमालां करे वामे दक्षे पुस्तकधारिणीम् ।  
ज्ञान विज्ञानदां वीणावादिनीं भारतीं नुमः ॥

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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

## THIRTY-THIRD ANNUAL REPORT—1981-82

### INTRODUCTION

On behalf of the Syndicate the Vice-Chancellor has great pleasure in submitting to the Senate the thirty-third annual report covering the years 1981-82. The report is best read within the context of the history of the University.

The Maharaja Sayajirao University of Baroda owes its name to its founder, Shri Maharaja Sayajirao Gaekwad III, one of the most enlightened rulers of the old State of Baroda. Shri Sayajirao founded Baroda College in 1881. Nine years later he established Kalabhavan, later to form the basis of the Faculty of Technology and Engineering. He inspired the appointment of the Baroda University Commission in 1925. Its report in 1927 recommended that a unitary and residential University having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration should be established in Baroda. Although the University was not founded until 1949, several new institutions were created. The Secondary Teachers' Training College was created in 1935, the Sayaji Golden Jubilee Science Institute in 1937, the Pratapsingh College of Commerce and Economics in 1942 and the Medical College in 1949.

The M. S. University of Baroda, first conceived in 1919 and formally proposed in 1925 came into existence on 30th April, 1949. By June 1950 the existing 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.

The University began with 2,962 students on its roll. By the time it celebrated its twenty-fifth birthday, the number had risen to nearly 21,000 students. In the following year the number fell to 20,664. In the next three years it fell yet further and was 19,486, 19,247 and 18,972 respectively. In 1980-81, it rose to 19,238

and in the current year it touched the record figure of 24,341 University and 2,095 non-University students.

The increase in the number of students has been accompanied by several predictable problems. The Faculty of Commerce, where the number of students increased threefold in two years, had difficulty catering to the basic educational needs of its students. It even had difficulty accommodating them in existing class-rooms. Non-attendance became a virtue, and the teachers and the Dean began their day earnestly hoping that at least a quarter of their students will not attend the classes! Since the increase in enrolment was not accompanied by a corresponding increase in hostel accommodation, quite a few students had considerable difficulty finding suitable private accommodation, and there were several tragic situations at the start of the year. The increase in the number of teachers strained the available staff accommodation. Many of them had to rent highly expensive private accommodation in the city, and some newly appointed teachers are thinking of leaving the University. The University desperately needs more staff quarters and student hostels, but lacks the resources to do so.

In some areas, the University finds it extremely difficult to recruit qualified staff largely because the industries, hungry for technically qualified men, can easily offer them far higher salaries than the University can pay. While this has led to regrettable understaffing in some departments, it has also encouraged the University to recruit men from the industry on a part-time basis, thereby paying the way for a fruitful and mutually beneficial co-operation between the University and the industry. As in other universities in the country at large, there is a widespread feeling in our University that it needs to do far more than what it has done so far to improve the quality of education available to its students, democratise the structure of University departments, create a greater harmony between the staff and students, encourage merit, stimulate research, and in general to create an intellectually exciting climate worthy of its glorious past. The University has already taken a few tentative steps in this direction. It is difficult to say whether these steps will congeal into a new pathway as we fondly hope, or whether they will prove as evanescent and infirm as steps in the sand. Like other universities in the country, our University is passing through difficult times and facing the future with a mixed feeling of hope and trepidation.

Baroda  
19-10-1982

B. C. PAREKH  
Vice-Chancellor

## 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 24,341 (17812 men students and 6,529 women students) that of non-University students was 2,095 (1,318 men students and 777 women students). The details of the students are given in Appendices I and II.

### 3. Special Features of the Year

#### (1) Convocations :

- (i) The Thirtyfirst Annual Convocation was held in the University Gardens, Baroda on Saturday, 19th December, 1981. Shri Fatehsinhrao Gaekwad, the Chancellor presided. Shri Nani A. Palkhiwala Senior Advocate Supreme High Court delivered the Convocation Address. 4,366 degree and diplomas were conferred.
- (ii) The Twentysecond Supplementary Convocation was held on Saturday 24th April, 1982 in the General Education Auditorium, Baroda. Dr. B. C. Parekh, the Vice-Chancellor presided. 610 degrees and diplomas were conferred.

Appendix VI gives details of degrees and diplomas conferred.

#### 2. New Courses :

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

#### 3. Seminars/Summer Schools :

- (i) All India Short-Term Institute in Microbiology 22nd June to 12th July 1981 (Faculty of Science).

- (ii) Annual Conference of Society of Biological Chemists India 18th to 20th November, 1981 (Faculty of Science).
- (iii) Seminar on Indo-Persian Literature in Gujarat 27th to 29th November, 1981 (Faculty of Arts).
- (iv) Symposium on Geography and Rural Development 21st to 24th December, 1981 (Faculty of Science).
- (v) 10th Annual Conference of the Gujarat Statistical Association from 26th to 27th December, 1981 (Faculty of Science).
- (vi) The Role of Museum in Environments in Education 26th to 29th December, 1981 (Faculty of Fine Arts).
- (vii) International Workshop on Nutrition & Development of Child 9th to 15th January, 1982 (Faculty of Home Science).
- (viii) Workshop on University Methods of Teaching & Evaluation 2nd to 6th February, 1982 (Faculty of Education and Psychology).
- (ix) Seminar on Syllabus and Teaching Methods in Dramatics for Degree and Diploma Courses 19th to 21st February, 1982 (College of Indian Music, Dance and Dramatics).
- (x) All India Seminar on "Engineering issues in the Methodology of Educational Research" 4th to 6th March, 82 (Faculty of Education & Psychology).

#### 4. Special Lectures for the year 1981-82

- (a) The Maharaja Sayajirao Memorial Lectures for the year 1981-82 were delivered by Shri Umashanker J. Joshi, President, Sahitya Academy, New Delhi.
  - (i) *Premanandman Vyangya, Vinod And Hasya*—16-2-1982
  - (ii) *Premanandni Kavita-Shakti*—17-2-1982.
- (b) Tagore Chair in Humanities, of the M. S. University of Baroda : Smt. Kamaladevi Chattopadhyaya of New Delhi, spent ten days in the College of Indian Music, Dance and Dramatics as Tagore Chair Professor from 25-1-1982 to 3-2-1982 and delivered sixteen lectures during her stay.

#### (5) Baroda College Centenary Celebrations :

The Baroda College Centenary Celebrations were held during the period 30th September to 2nd October 1981. The Centenary Day was observed on 1st October 1981, the day exactly a hundred years ago when the Senate of the Bombay University accorded affiliation to the Baroda College of Arts and Science. The Celebrations included kavi sammelan, illumination of the Building, exhibition depicting the evolution of the College, programme to honour the teachers of the old College, public meeting, release of the souvenir, Gandhi

Vandana and a Symposium on the Crisis in Education. The public meeting held on 1st October 1981, which marked the culmination of the celebrations was presided over by the Chancellor of the University, Shri Fatehsinhrao Gaekwad, and Shri Prabodh Raval, Hon. Education Minister, Govt. of Gujarat was the Chief Guest.

#### (6) Development Schemes :

- (i) 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 others, were undertaken by teachers and Departments of the University during the year under report. The details are given in Chapter V.
- (ii) The Faculty of Technology and Engineering has been chosen as a Centre for research on Irrigation and Water Management and introduction of a new course in Water Management in the Civil Engineering Department from the academic year 1982-83. The USAID and the Government of Gujarat have agreed to provide financial assistance to the tune of Rs. One and half crores for recurring and non-recurring expenditure for the Centre.
- (iii) "Project No. IND/80/030/A/01/13— Post-Graduate Engineering Education and Research" of The Faculty of Technology and Engineering has been sanctioned by the UNDP with Government of India's input of Rs. 13,300,000 and UNDP input \$ 12,90,865/-. The UNDP input is specially meant for exchange of Professors, training of staff and equipment for the Departments of Civil Engineering, Applied Mechanics, Mechanical Engineering and Electrical Engineering. The projects is intended to meet the demands of industries, research and technical institutions for highly trained technical personnel in specialised fields of engineering and technology through industrially oriented courses and improved training programmes. This should eventually help in the technological development of the country, besides improving facilities for technical education sponsored research, and consulting services to the country.

- (iv) The University has been identified as one of the institutions by the University Grants Commission for Development of Computer Facilities. In accordance with an action plan for this purpose, two programmes in Computer Science Technology have been introduced. viz. (1) B.Tech. Course in Computer Science and Engineering from 1981-82 and (2) Degree in Master of Computer Applications (M.C.A.) from 1982-83. The proposal has been approved by the University Grants Commission which has agreed to provide financial assistance for these courses during the Sixth Plan period.

#### 7. The Sixth Five Year Plan

##### Sciences and Humanities :

- (a) The University Grants Commission has sanctioned Rs. 8 lacs for Books and Journals and Rs. 8 lacs for Scientific Equipment on adhoc basis towards the 6th Plan Allocations for Sciences and Humanities. The Commission has also sanctioned Rs. 19.5 lacs for buildings during this plan period on an adhoc basis.

##### (b) Technology and Engineering :

The University Grants Commission has sanctioned Rs. 2 lacs for Books and Journals on Adhoc basis towards the 6th Plan Allocations for the Faculty of Technology and Engineering.

#### 8. Buildings

- (i) The following new buildings were completed :
- (i) Central Instrumentation Facilities and Architecture Department.
  - (ii) Proposed Work for the Ground floor at Computer Centre.
- (ii) The following buildings are under construction :
- (i) Additions and Extensions to the Faculty of Science for accommodating additional area of the Departments of Mathematics, Statistics and Botany.
  - (ii) Building for Textile Chemistry and Shed for Textile Engineering Department.
  - (iii) Proposed Shed for Civil Engineering Department above first floor of P. G. Hydraulic Department, Faculty of Technology and Engineering.
  - (iv) New building for library at the Faculty of Technology and Engineering.
  - (v) Proposed Shed for Applied Mechanics and Architecture Department, Faculty of Technology and Engineering.

- (vi) Extension to Building for Mechanical Engineering Department, Faculty of Technology and Engineering.
- (vii) Special Assistance for Building of Bio-Chemistry Department, Faculty of Science (Phase-II).

#### 9. Silver Jubilee Fund

##### (A) Consolidated statement of Receipts and Expenditure :

	General Fund Rs.	Specific Fund Rs.	Total Silver Jubilee Fund Rs.
Opening balance as on 1-4-1982	23,46,891-06	45,68,092-83	69,14,983-88
<b>Add :</b>			
(i) Donation received during the year	—	3,000-00	3,000-00
(ii) Interest received during the year	—	—	—
Total Receipts	2,43,569-96	4,08,525-92	6,52,095-88
<b>Total</b>	<b>25,90,461-01</b>	<b>49,79,618-75</b>	<b>75,70,079-76</b>
<b>Less :</b>			
<b>Expenditure :</b>			
(i) up to 31-3-1981	1,06,923-13	3,92,328-34	4,99,251-47
(ii) from 1-4-1981 to 31-3-1982	7,790-00	1,76,232-06	1,84,022-06
Total Expenditure	1,14,713-13	5,68,560-50	6,83,273-53
<b>Closing balance of the Fund as on 31-3-1982</b>	<b>24,75,747-88</b>	<b>44,11,058-35</b>	<b>68,86,806-23</b>

Receipts and Expenditure are as under :—

##### (B) Receipts during the year :—

The University has received Rs. 3,000/- as donation from M/s. Indian Aluminium Co., Calcutta for the Research Projects on "Pellatization of Alumina" and "grain Refinement of Aluminium" and has received interest of Rs. 6,52,095-88 ( General Fund Rs. 2,43,569-96 + Specific Fund Rs. 4,08,525-92 ).

##### (C) Expenditure during the year :

	Rs.
<b>General Fund</b>	
(i) Salary of one Part-Time Clerk	2,400-00
(ii) Payment to Bhagwat Saptah Food subsidy Fund for the Hostel students of Baroda Sanskrit Mahavidyalaya	5,390-00
<b>Total</b>	<b>7,790-00</b>

## (D) Specific Funds :

	Rs.
(i) "I.P.C.L. Centre for studies in National and Inter-National Industrial Development in the Department of Economics, Faculty of Arts.	49,557-23
(ii) "Research cell in Banking by the Reserve Banks of India, Bombay" in Banking Department, Faculty of Commerce	63,334-63
(iii) "G.S.F.C. Chair in the University in the Faculty of Technology and Engineering	28,660-71
(iv) "Puja Ramchandra Keshav Dongre Vedadhyayan and Vedotrsha Fund" in Baroda Sanskrit Mahavidyalaya	15,845-99
(v) Research Projects on 'Pellatization of Alumina' and "Grain Refinement of Aluminium" in the Faculty of Technology and Engineering.	884-20
(vi) O.N.G.C. Senior Research Fellowship at Applied Chemistry Department, Faculty of Technology and Engineering	12,569-30
(vii) Prince Dhairyashirao Sayajirao Gaekwad Scholarship at Faculties of Arts Social Work and Home Science	1,460-00
(viii) Prof. S. K. Roy Gold Medal	720-00
(ix) Prof. K. H. Patel Gold Medal	800-00
(x) Sayaji Iron Gold Medal	880-00
(xi) Virnagar Taluka Majoor Sahakari Mandali Limited Gold Medal	800-00
(xii) Paramount Gold Medal	720-00
Total	1,76,232-06

## (10) Visitors :

- (i) Shri Prabodhbhai Raval, Education Minister, Gujarat State—6th May, 1981.
- (ii) Dr. Madhuriben Shah, Chairman, University Grants Commission, New Delhi—4th March, 1982.

## 4. Teaching Staff

The teaching staff excluding teachers in the Medical College consisted of 87 Professors, 163 Readers, 674 Lecturers, 10 Senior Instructors and Ustads, 46 Honorary, Part-Time and others, the total being 980. (Appendix IV).

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

(i) Teachers who are granted facilities for participation in Conferences and seminars etc. in India and abroad during the year :

Sr. No.	Name and Designation	Purpose
1.	Dr. C. K. Seshadri Reader in English Dept. Faculty of Arts	Recent Inovations in ELT in India at Hyderabad from 6-10 April, 1981
2.	Dr. R. Vanikar, Reader in English Dept., Faculty of Arts	Recent Inovations in ELT in India at Hyderabad from 6-10 April, 1981.
3.	Dr. (Miss) J. Parikh, Lecturer in C. D. Dept. Faculty of Home Science	(1) First combined Asian Regional and Commonwealth Congress for the scientific study of mental deficiency at Bangalore from 4-8 May, 1981. (2) Pre-conference at Bangalore on 1st and 2nd May, 1981 and post conference at Hyderabad on 10-11, May, 1981.
4.	Prof. Tara Gopaldas, Head Dept. of Foods and Nutrition, Faculty of Home Science	The XII International Congress of Nutrition at San Diego, California U.S.A. 16-21 August 1981
5.	Dr. Sunder Gujaral Lecturer in the Dept. of Foods and Nutrition, Faculty of Home Science	The XII International Congress of Nutrition at San Diego, California U.S.A. 16-21 August, 1981.
6.	Prof. K. N. Trivedi, Prof. and Head, Chemistry Dept. Faculty of Science	8th International Congress of Heterocyclic at Graz in Austria 23-28 August, 1981.
7.	Prof. V. V. Modi, Prof. and Head, Micro- biology, Faculty of Science	6th International Symposium on Carotenoids at Liverpool 20 July to 3 August, 1981.
8.	Dr. S. G. Kantawala, Professor and Head, Sans- krit Deptt., Faculty of Arts	Birth centenary Celebration of Kuppaswami at the Kuppaswami Sastri Research Institute, Madras, 19th to 21st June, 1981.
9.	Prof. R. C. Desai, Professor and Head, Deptt. of Electrical Engineering	International Federation for Information Processing, Polytechnic Inst. New York, U.S.A. Four days and 31-8-1981.
10.	Prof. M. S. Yadav, Professor of Education, Faculty of Education and Psychology	to attend the Fifth International Conference on Higher Education at the University of Lancaster U.K. 1-9-19 81 to 4-9-1981.

Sr. No.	Name and Designation	Purpose
11.	Dr. V. P. Bhatt, Reader in Physics, Faculty of Science	International School on synthesis crystal growth and characterisation of materials for energy conservation and storage at National Physical Laboratory New Delhi, 12th to 23rd Oct. 1981.
12.	Dr. G. R. Pandya, Lecturer in Physics, Faculty of Science	International School on Synthesis Crystal Growth and characterisation of materials for energy conservation and storage at National Physical Laboratory New Delhi, from 12th to 23rd Oct., 1981.
13.	Prof. S. G. Kantawala, Professor and Head, Deptt. of Sanskrit, Faculty of Arts	Fifth world Sanskrit conference at Varansi 21st to 26th October, 1981.
14.	Mrs. Uma S. Deshpande, Lecturer in Sanskrit, Faculty of Arts	Fifth world Sanskrit Conference at Varansi 21st to 26th October, 1981.
15.	Shri C. N. Daftuar, Reader in Deptt. of Psychology, Faculty of Education and Psychology	Conference on "Human Assesment and cultural Factore" at Queen's University Kingston, Canada 16th-21st August, 1981.
16.	Dr. G. M. Oza, Lecturer in Biological Science, General Education	Conference on "Tourism and Conservation Policies and Strategies for a Finite Resource" at Lausanne, Switzerland 6th-10th November, 1981.
17.	Dr. R. C. Desai, Professor and Head, Electrical Engineering Deptt. Faculty of Techno- logy and Engineering	International conference on systems, Theory and Applications at P.A.U. Ludhiana, 17-19 December, 1981.
18.	Dr. (Mrs.) Mainavati A. Pandya, Lecturer in the Deptt. of Botany, Faculty of Science	Vlth International Conference of Women Engineers and Scientists at Bombay 7-12 September, 1981.
19.	Dr. (Mrs.) M. N. Shah,	18th International Summer Seminar, German Democratic Republic, June, 21 to July 5, 1981.
19a.	Dr. K. K. Rao, Reader in Microbiology, Faculty of Technology and Engineering	22nd Annual Conference of the Association of Microbiologists of India at Lucknow, 5-7 November, 1981.

Sr. No.	Name and Designation	Purpose
20.	Kum. Sunayana H. Divetia, Reader in Philosophy, Faculty of Arts	Indian Philosophical Congress at Bhuvaneswar ( Orissa ) 27-31 December, 1981.
21.	Smt. Aruna P. Dave, Lecturer in Child Deve- lopment Deptt., Faculty of Home Science	69th Session of Indian Science Congress Association ( I.S.C.A. ), at Mysore, 3-8 January, 1982.
22.	Kum. Kiran L. Parekh, Lecturer in Child Deve- lopment, Faculty of Home Science	69th Session of Indian Science Congress Association ( I.S.C.A. ) at Mysore, 3-8 January, 1982.
23.	Dr. P. N. Shah, Lecturer in Geology, Faculty of Science	Symposium on three Decades of Developments in Petrology, Mineralogy and Petrochemistry in India, Geological Survey of India at Jaipur, 19-21 May, 1981.
24.	Dr. R. V. Kcuanty Lecturer in Geology, Faculty of Science	Symposium on three Decades of Developments in Petrology, Mineralogy and Petrochemistry in India, Geological Survey of India at Jaipur, 19-21 May, 1981.
25.	Dr. (Miss) M. Chakraworty, Director of Continuing Adult Education and Community Services	34th All India Adult Education Conference at Patna ( Bihar ) 20-23 October, 1981.
26.	Shri Harihar Prapanna, Lecturer in Philosophy, Deptt. Faculty of Arts	27th Annual Conference on " Akhil Bharatya No Darshan parishad at Jammu ( Kashmir ), 13-16, October, 1981.
27.	Shri R. D. Bhatt, Reader in Civil Engg. Deptt. Faculty of Techno- logy and Engineering	National Symposium Binder Economy and Alternate Binders in Road and Building construction at Delhi 3-4 November, 1981.
28.	Shri H. C. Shukul, Lecturer in Political Science Deptt. Faculty of Arts	41st Annual conference of Indian Political Science Association at Ranchi, 12-14 October, 1981.
29.	Dr. V. G. Nandedkar, Lecturer in Political Science Deptt. Faculty of Arts	41st Annual conference of Indian Political Science Assocaition at Ranchi, 12-14 October, 1981.
30.	Miss Arti Merh, Lecturer in Economics Deptt. Faculty of Arts	Seventh Input-output Research Association Conference at Bombay 4-6 September, 1981.

Sr. No.	Name and Designation	Purpose
31.	Prof (Mrs.) Amita Verma Prof. and Head Deptt. of C. D. Faculty of Home Science	International Regional Conference on Child Welfare at New Delhi 16-18 November, 1981
32.	Prof. A. N. Jani Director, Oriental Institute	5th World Sanskrit Conference at Varanasi 21-26 October, 1981
33.	Dr. S. J. Bedi Lecturer in Botany Faculty of Science	International Symposium on Tropical Ecology and Resource Management Bhopal (M.P.) 5-10 October, 1981
34.	Dr. S. S. Akolekar Asstt. Professor of Ana- tomy, Faculty of Medicine	8th Annual conference of the Indian Society of Human geneslies at Puna 26-28 Nov. 1981
35.	Dr. Ravindra H. Dholakia Reader in Economics Faculty of Arts	Gujarat Economics Conference Adipur (Near Gandhidham ) Kutch 31-10-1981 to 1-11-1981
36.	Shri Yatin O. Parikh Lecturer in Economics Faculty of Arts	Gujarat Economics Conference Adipur (Near Gandhidham ) Kutch 31-10-1981 to 1-11-1981
37.	Dr. M. M. Dadi Prof of Economics Faculty of Arts	Gujarat Economics Conference Adipur (Near Gandhidham ) Kutch 31-10-1981 to 1-11-1981
38.	Prof. S. S. Merh Head, Deptt. of Geology Faculty of Science	Anniversary General meeting of I.N.S.A. and Indian Science Congress at Mysore, 2-8 January 1982
39.	Prof. Dipak De Professor of Textile Engin- eering Faculty of Tech- nology and Engineering	International Conference in Textile at Bombay 18-20 November, 1981
40.	Mrs. Ranjit Kaur Lecturer in Bio-Chem- Pharmacy Deptt. Faculty of Technology and Engi- neering	II World Congress on Diabetes in the Tropics and Developing Countries at Bombay 14-17 November, 1981.
41.	Dr. H. S. Chhatpur Lecturer in Deptt. of Microbiology, Faculty of Science	22nd Annual conference of Association of Microbiologists of India at Lucknow 5-7 November, 1981
42.	Shri T. Sanjeeva Reddy Lecturer, Bio-Chem. Deptt. Faculty of Science	Seminar on Modern Biology at Mahabaleshwa 2-7 November, 1981

Sr. No.	Name and Designation	Purpose
43.	Dr. (Mrs.) S. B. Patra Associate Professor of Pathology, Faculty of Medicine.	XXX National Annual conference of Patho- logists and Microbiologists at Trivendrum 1-5 December, 1981
44.	Dr. V. S. Parekh, Lecturer Deptt. Archaeo- logy, Faculty of Arts	Gujarat Itihas parishad Pune 16-17 October, 1981
45.	Dr. V. M. Shah Prof. and Head Deptt. of Mathematics, Faculty of Science	69th Session of the Indian Science Congress Association at Mysore 3-7 January, 1982
46.	Mrs. Nirmala Misra Lecturer in Child Deve- lopment, Faculty of Home Science	69th Session of the Indian Science Congress Association at Mysore 3-7 January, 1982
47.	Dr. N. K. Jain Reader in Pharmacy, Faculty of Technology and Engineering	33rd Indian Pharmaceutical Congress at Jai- pur 20-22 December, 1981
48.	Shri S. M. Khanna Lecturer in Pharmacy Faculty of Technology and Engineering	33rd Indian Pharmaceutical Congress at Jaipur 20-22 December, 1981
49.	Shri R. M. Pancholi Reader in English Faculty of Technology and Engineering	Multi-Discipline Seminar on Language Tea- ching at Mysore 3-5 December, 1981
50.	Dr. B. B. L. Mathur Prof. of Pathology and Medical Superintendent S.S.G. Hospital, Baroda	XXX Annual conference at Indian Associa- tion of Pathologists at Trivendrum 31-11-1981 to 1-3 December, 1981
51.	Dr. A. N. Shah Lecturer in Geology, Faculty of Science	12th Himalayan Geology Seminar at Dehra- dun 14-16 December, 1981
52.	Prof. P. K. Bhattacharya Chemistry Deptt. Faculty of Science	Convention of Chemists at Madras 26-31 December, 1981
53.	Shri S. M. Desai Lecturer in Chemistry Faculty of Science	Convention of Chemists at Madras 26-31 December, 1981

Sr. No.	Name and Designation	Purpose
54.	Dr. (Smt.) Surekha Devi Lect. in Chemistry Deptt. Faculty of Science	The Convention of Chemists Madras 26-31 December, 1981
55.	Dr. R. R. Ram Lecturer in Chemistry Faculty of Science	Convention of Chemists at Madras 26-31 December, 1981
56.	B. V. Kamati Lecturer in Chemistry Faculty of Science	Convention of Chemists at Madras 26-31 December, 1981
57.	A. B. Darji, Reader in Physics, Faculty of Science	(1) Indian Science Congress at Mysore 3-7 January, 1982. (2) National Symposium on optical and spectra of Transition Metal and Rare Earth Cons at Tirupati 11-15 January, 1982.
58.	Shri P. M. Shah, Lect. in Physics, Faculty of Science	(1) Indian Science Congress at Mysore 3-7 January, 1982. (2) National Symposium on optical and spectra of Transition Metal and Rare Earth Cons at Tirupati 11-15 January, 1982.
59.	Shri N. M. Shah, Lecturer in Physics, Faculty of Science	(1) Indian Science Congress at Mysore 3-7 January, 1982. (2) National Symposium on Optical and Spectra of Transition Metal and Rare Earth Cons at Tirupati 11-15 January, 1982.
60.	Dr. G. Pratha Pasenan, Lect. in Botany, Faculty of Science	Two week Training Course in the Safety Aspects in the research Applications of furlishing Radiations at BARC, Bombay, 7-14-1981.
61.	Dr. Mafat Oza, Lecturer in Gujarati, Deptt. Faculty of Arts	31st Annual conference of Gujarati Sahitya Parishad at Hyderabad 27-28 December, 1981.
62.	Dr. S. A. Purnik, Prof. and Head Chemical Engg. Deptt. Faculty of Technology and Engineering	(1) Symposium on Advances in Science and Technology of Mineral Benefication in India at Hyderabad 3-5 December, 1981.

Sr. No.	Name and Designation	Purpose
		(2) 34th Annual Session of Indian Institute of Chemical Engineers at Madras, 16-19 December, 1981.
63.	Prof. C. H. Pathak, Prof. of Botany Deptt., Faculty of Science	69th Session of Indian Science Congress at Mysore 1-8 January, 1982.
64.	Dr. Dinesh D. Pandya, Research Officer, Sheth U.P.A.R. Unit, Faculty of Medicine	XXVII Annual Conference of Association of Physiologist and Pharmacologist of India at Ludhiana, 27-29 December, 1981.
65.	Mrs. Veena Gandotra, Lecturer in Home Management Deptt., Faculty of Home Science	Indian Science Congress at Mysore 3-8 January, 1982.
66.	Dr. (Mrs) Kalpana Parlikar, Lect. in Education and Extention, Faculty of Home Science	Indian Science Congress at Mysore 3-8 January, 1982.
67.	Mrs. Rachel George, Lect. in Home Management Faculty of Home Science	Indian Science Congress at Mysore 3-8 January, 1982.
68.	Shri Kiran M. Joshi, Teaching Asstt. Deptt. of Banking and Business Finance, Faculty of Commerce	Gujarat Economics Conference at Adipur 31-10 1982 to 1-11-1981.
69.	Dr. (Mrs) Ninaz T. Ankleshwaria, Lect. in Food and Nutrition, Faculty of Home Science	Indian Science Congress at Mysore 3-8 January, 1982.
70.	Shri K. Ethurajulu, Reader in Chemical Engg. Dept. Faculty of Techno- logy and Engineering	34th Annual Convention of Indian Institute of Chemical Engineers at Madras, 16-19 December, 1981.

Sr. No.	Name and Designation	Purpose
71.	Dr. Manjuli Gon, Reader in Psychology, Faculty of Edu. and Psy.	69th Session of the Indian Science Congress at Mysore 3-8 January, 1982.
72.	Dr. Lovekumar M. Desai, Lect. in Gujarati, Faculty of Arts	Gujarati Sahitya Parishad, 31st Conference at Hyderabad 27-28 December, 1981.
73.	Dr. N. V. Karnath, Lecturer in Geology, Faculty of Science	12th Himalayan Geology Seminar at Dehradun 14-16 December, 1981.
74.	Shri N. M. Surana, Lecturer in Chemical Engg. Deptt. Polytechnic	34th Annual Session of Indian Institute of Chemical Engg. at Madras 16-19 December, 1981.
75.	Shri C. N. Daftuar, Reader in Psychology, Faculty of Education and Psychology	(1) National conference of Applied Psychology of Bombay, 26-29 December, 1981. (2) 69th session of the Indian Science Congress at Mysore, 3-7 January, 1982.
76.	Dr. V. H. Sonavane, Lecturer in Excavation, Deptt. of Archaeology, Faculty of Arts	All India seminar on Indian preprotohistoric Archaeology at Walfair 24-31 December 1981.
77.	Dr. (Mrs) Jayshree De, Lect. in Geography, Faculty of Science	International Conference on Urban and Regional change in Developing Countries at I.I.YL Kharagpur 12-15 December 1981.
78.	Dr. B. U. Subrabmaniam, Prof. of Forensic Medicine and Head, Faculty of Medicine	XV Annual Conference of Indian Academy of Forensic Medicine at Madras 12-14 February, 1982.
79.	Dr. H. E. Srivastava, Head, Anatomy Deptt. Faculty of Medicine	XXX National Conference of Anatomical Society of India at Medical College Trivandrum 28-30 December, 1981.
80.	Shri C. G. Gupte, Reader in Mechanical Engg. Deptt. Faculty of Technology and Engineering	XI ISTE National Seminar at Bangalore 23-24 December, 1981.

Sr. No.	Name and Designation	Purpose
81.	Dr. Ravindra H. Dholakia, Reader in Economics, Faculty of Arts	13th General Conference of the Indian Association for Research National Income and Wealth at Bhubaneshwar (Orissa) 22-25 January, 1981.
82.	Miss Arti Merh, Lecturer, in Economics, Faculty of Arts.	National Symposium on Transportation System. Studies Analysis and Policy at I.I.T. New Delhi 4-6 December, 1981.
83.	Dr. K. N. Trivedi, Prof. and Head, Chemical Department, Faculty of Science	Third National Symposium on Element Organic Compounds in Chemical Synthesis at Jaipur 22-25 February, 1982.
84.	Dr. K. N. Momin, Lecturer in Archaeology, Department, Faculty of Arts	All India Seminar on Indian Pre and Proto Historic Archaeology at Walfair 29-31, December, 1981.
85.	Prof. (Smt.) Amita Verma, Professor Head, C. D. Department, Faculty of Home Science	Indian Association for Pre-School Education at Tirupati, 6-10 January, 1982.
86.	Dr. Tara Gopaldas Professor and Head, Department Food and Nutrition, Faculty of Home Science	Indian Science Congress at Mysore, 3-5 January, 1981.
87.	Dr. M. H. Siddiqui, Reader and Head, Deptt., of Persian, Arabic and Urdu Faculty of Arts	Anjuman-ie-Ustadane Farsi-Hind at Lucknow (U.P.) 29-31 December, 1981.
88.	Dr. A. J. Rawal, Reader in Department of Sanskrit, Faculty of Arts	Rajasthan Sanskrit Samsad at Jaipur, 18-20 February, 1982.
89.	Dr. K. K. Rao, Reader in Department of Microbiology, Faculty of Technology and Engineering	National Symposium on Biotechnology at Chandigarh, 13-15 November, 1981.
90.	Dr. Yashvant B. Chhathar, Asstt. Prof. E.N.T. S.S.G.	International Nemnooktlogy, Conference at Bombay, 26-29 November, 1981.

Sr. No.	Name and Designation	Purpose
	Hospital and Medical College, Faculty of Medicine	
91.	Smt. Varsha H. Anjaria, Lect. in Social Work, Faculty of Social Work	Parent-Teacher-Worker Partnership at Bombay Institute of Mental Health at Ahmedabad. 12-13 December,, 1981.
92.	Professor H. C. Dholakia, Faculty of Law	National Congress of Criminal Law at New Delhi, 8-10 February, 1982.
93.	Dr. Niranjan G. Sanghavi, H. M. Prof. in Medicine, Faculty of Medicine	Joint Annual National Conference Associa- at Physicians of India at New Delhi, 21-25 January, 1982.
94.	Dr. R. V. Karanth, Lecturer in Geology, Faculty of Science	Workshop on Fluid Inclusion—Studies at I.I.T., Bombay.
95.	Dr. V. S. Parekh, Lecturer, Deptt. of Archaeo- logy and Ancient History, Faculty of Arts.	Indian History and Culture Society at Madras 12-14 February, 1982.
96.	Dr. P. W. Deshpande, Lecturer in Physics, Faculty of Science	13th National Conference on Crystallography, Physics Department Nagpur University, 15-18 March, 1982.
97.	Dr. N. L. Kekani, Lecturer in Physics, Faculty of Science	13th National Conference on Crystallography,, Physics Department, Nagpur University 15-18 March, 1982.
98.	Dr. Nandini Vaishampayan, Lecturer in Physics, Faculty of Science	13th National Conference on Crystallography, Physics Department, Nagpur University, 15-18 March, 1982.
99.	Dr. R. N. P. Sinha, Professor and Head, Department of Geography, Faculty of Science	I.G.U. International Symposium on Energy Resources, Environment and Habitat Trans- formation in the developing countries at Meerut, 16-20 March, 1982.
100	Prof. N. Subrahmaniam, Asstt. Professor Chemical Engineering, Faculty of Technology and Engineering	National Symposium on Biotechnology at Chandigarh, 13-15 March, 1982.

Sr. No.	Name and Designation	Purpose
101.	Shri S. K. Dutta, Lecturer in Metallurgicui Engineering Department, Faculty of Technology and Engineering	Advances in Metallurgical Research Trans- ormation and Processes at I.I.T. Khargapur.
102.	Dr. M. D. Sharma, Professor and Head, Development and Banking and Business Finance, Faculty of Commerce.	National Seminar Organized by Department of Commerce, Jiwaji University at Gwalior, 24-26 February, 1982.
103.	Shri H. R. Desai, Lecturer in Accounts, M. K. Amin Arts and Science College of Commerce, Padra	All India Accounting Conference at North Bengal University, Dist. :—Darjeeling, 14-15 February, 1982.
104.	Dr. Dinesh N. Shah, Professor and Head, Community Medicine (P.S.M.) Faculty of Medicine	12th Anual Conference Indian Association of Preventive and Social Medicine, Christian Medical College at Bagayam Vellore, Tamil Nadu State, 6-8 January, 1982.
105.	Shri Jasubhai C. Patel, Lecturer in Mechanical Engineering Department, Polytechnic	XI Annual National Convention of I.S.T.E. at Banglore, 22-24 December, 1981.
106.	Dr. ( Smt. ) Saradha S. Srinivasan, Lecturer in Archaeology, Department, Faculty of Arts	Indian History and Culture Society at Madras, 12-14 February, 1982.
107.	Dr. K. N. Momin, Lecturer in Archaeology, Faculty of Arts	Indian History and Culture Society at Madras, 12-14 February, 1982.
8	Dr. B. S. Palru, Professor and Head of the Department of Cardio- thoracic Surgery, Faculty of Medicine	XIX National Conference of Indian Academy of Pediatrics Institute of Pediatrics at Cuttack, 24-27 February, 1982.

Sr. No.	Name and Designation	Purpose
109.	Dr. P. K. Bhattacharya, Professor of Inorganic Chemistry, Faculty of Science	Element Organic Compounds in Chemical Synthesis, University of Rajasthan at Jaipur, 22-25 February, 1982.
110.	Dr. A. G. Patel, Medical Superintendent, S. P. Sanatorium and Head of the Department of Tuberculosis.	(1) 12th Eastern Regional Tuberculosis Conference in Bangla Department 7-12 December, 1981. (2) Symposium on Chemotherapy of Management of Tuberculosis at Madras, 16-17 December, 1981.
111.	Shri S. M. H. Rizvi, Lecturer in Geography, Department, Faculty of Science	International Geographical Union, International Symposium on Energy Resource Environment and Habitate Transformation in Developing Countries at Meerut University Meerut, 15-22 March, 1982.
112.	Dr. V. P. Bhatt, Reader in Physics Department, Faculty of Science	XIII National Seminar on Crystallography, Physics, Department, Nagpur University, at Nagpur, 15-18 March, 1982.
113.	Shri V. R. Mathrubhatheswaram, Lecturer in Physics, Faculty of Science	XIII National Seminar on Crystallography, Physics, Department, Nagpur University, at Nagpur, 15-18 March, 1982.
114.	Shri M. C. Vyas, Lect. in Physics, Faculty of Science	XIII National Seminar on Crystallography, Physics Department, Nagpur University, at Nagpur, 15-18 March, 1982.
115.	Dr. G. R. Pandya, Lecturer in Physics, Faculty of Science	XIII National Seminar on Crystallography, Physics Department, Nagpur University, at Nagpur 15-18 March, 1982.
116.	Dr. C. F. Desai, Teaching Assistant	XIII National Seminar on Crystallography, Physics Department, Nagpur University, at Nagpur, 15-18 March, 1982.
117.	Shri R. M. Patel, Teaching Assistant	XIII National Seminar on Crystallography, Physics Department, Nagpur University, at Nagpur, 15-18 March, 1982.

## (ii) Teachers granted sabbatical leave during the year under report :

Sr.No.	Name	Designation	Financial year	Period	Purpose
1	1. Dr. Thomas Panthan, Faculty of Arts	Reader in Political Science	1981-1982	From 20-1-81 till the last working day of the First term 1981-82 S.R. No. 3 (1) dated 20-6-1981.	To enable him to go to U.S.A. for post doctoral research.
2	2. Miss K. G. Patel, Faculty of Fine Arts	Lecturer in Pottery	1981-1982	From 17-11-1981 to 16-11-82 S.R. No. 3 (25) dated 3-9-81.	To enable her to visit places like Banaras, Calcutta, Madras, Bangalore for the development of ceramic Science.
3	3. Shri Jyoti Bhatt, Faculty of Fine Arts	Reader and Head Department Painting	1981-1982	For a period of one year from the date he avails of the same S.R. No. 2 (1) dated 24-11-81.	To enable him to work on Photographic documentation of the village tradition of Art in India and its present state due to urban influences.
4	4. Prof. ( Miss ) Indira M. Patel, Faculty of Social Work	Professor of Social Work	1981-1982	For a period of one term prefixing summer vacation on and suffixing mid year vacation of the Calender year 1982. S.R. No. 3 (3) dated 16-1-1982.	To enable her to undertake the projects mentioned at Sr. No. 2 and 3 of her letter dated 26-11-1981.

(iii) Teachers granted Study-leave under O. 209 F during the year under report :

Sr. No.	Name	Designation	Department	Period of leave and financial year	Purpose
1	2	3	4	5	6
1.	Dr. H. B. Mehta, Faculty of Science	Lecturer in Microbiology	Microbiologyfi	From 22-6-1981 to 21-6-1982 and further extension from 21-6-1982 only for the first term of the year 1982-83	To enable him to accept a Post-doctoral Fellowship at the Department of Biochemistry school of Medicine, University of Mississippi Medicine Centre, U.S.A.
2.	Miss. S. G. Palkar, Faculty of Arts	Lecturer in English	English	1981-82 From 14-9-1981 to 13-9-1982	To enable her to complete Ph.D. work.
3.	Smt. Prerana Mohite, Faculty of Home Science	Lecturer in Child Development Department	Child Develop- ment Department	1981-82 From 4-1-1982 to 3-1-1983	To enable her to complete her Ph.D. work.
4.	Smt. Sunada Phadke, Faculty of Home Science	Lecturer in Cloth- ing and Textile	Clothing and Textile Depart- ment	1981-82 From 4-1-1982 to 3-9-1982	To enable her to complete her Ph.D. work.
5.	Mrs. Rachel George, Faculty of Home Science	Lecturer in Home Management	Home Manage- ment Department	1981-82 From 21-6-1982 20-6-1983 1982-83	To enable her to complete her Ph.D. programme in Home Management Department.
6.	Shri A. P. Chawla, College of Indian Music, Dance and Dramatics	Lecturer in Dramatics	Music College Dramatics Department	From 1-6-1982 to 20-12-1982 1982-83	To enable him to accept the invitation of the Boston Uni- versity Theatre Institute for higher studies in mime and Applied Arts.
7.	Shri Satish Misra, Faculty of Technology and Engineering	Lecturer in Metallurgical Engineering	Metallurgical Engineering	From 5-7-1982 to 4-7-1984 1982-83	Mississippi Medicine to enable him to accept an award of Post-graduate study in the Department of Met. Engg. University Wollongov, NSW, Australia.
8.	Shri Balakrishnaiah, Faculty of Home Science	Lecturer in Clothing and Textile	Clothing and Textile Depart- ment	From 6-9-1982 to or therefore from period of two months 1982-83	To enable him to complete his Ph.D. work.
9.	Dr. O. P. Joneja, Faculty of Arts	Lecturer in English	English Depart- ment	From 15-9-1982 to 22-2-1982	To enable him for Visiting Canada under the U.G.C. Pro- gramme.

### 6. University Examination Results :

68 Candidates were declared qualified for the award of Ph.D. degree of this University during the year 1981-82. The statement showing the names, subjects and titles of the thesis is given in Appendix XIII.

The statement showing the University examinations results of (i) June, 1981 and (ii) October-November, 1981 are given in Appendices XIV and XV.

### 7. Endowment and Donations

The Syndicate accepted the following donations during to year :

Sr. No.	Name of the Fund	Amount of Donation Rs.	Purpose
1.	Dr. V. G. Phatak, Memorial Gold Medal in Botany donated by Dr. Arvind V. Phatak residing in Pennsylvania ( U.S.A. )	15,000/-	For awarding a Gold Medal to a regular student who has passed the final year B.Sc. Examination with Principal Botany held by the M. S. University of Baroda in March/April, in First Class at first attempt obtaining the highest number of marks in Botany ( Principal ).
2.	Smt. Anjali Merh, Memorial Gold medal donated by Smt. Anjali Merh Memorial Fund Committee,	15,000/-	For awarding a Gold Medal to a regular student who has passed the final year B.Mus. (Dance) Examination held by the M. S. University of Baroda in March/April in First Class, at the first attempt, in aggregate thereat.

### 8. Finances of the University

#### (i) Capital Accounts :

Statements showing the income and expenditure of the (i) University General Fund (ii) Ayurvedic Research Fund, (iii) Post-Graduate Instruction and Research Fund during the financial year 1981-82 are given in Appendix VIII.

#### (ii) Revenue Accounts :

The receipts and disbursements during the financial year 1982-83 were Rs. 4,69,03,313-59 and 4,92,62,201-06 respectively leaving a deficit of Rs. 23 58, 887-47 Details of the Accounts are given in Appendix IX.

### (iii) Grants :

The University received grants totalling Rs. 71,93,278-13 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

#### (i) Capital Works :

The Division supervised the work of various buildings, additions and alterations and an amount of Rs. 13,22,605-63 was spent during the year on Capital Works.

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

The expenditure on Ordinary Repairs during the year was Rs. 3,40,34-18 and Special Repairs was Rs. 2,41,292-90.

### 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	Date
1. Shri S. B. Dhanawade	Laboratory Attender in Chemistry Faculty of Science	Expired on 10-10-1981
2. Shri Shriram Situbhaiya	Peon in Polytechnic	Expired on 18-12-1981
3. Shri Dalsukh Jetha	Cleaner in Polytechnic	Expired on 25-12-1981
4. Shri G. R. Shah	Reader in Account Deptt. Faculty of Commerce	Expired on 29-9-1981

CHAPTER II—THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 14 members. The following persons were members of the Syndicate :

1. Professor S. S. Merh, Vice-Chancellor ( Acting )
- Professor B. C. Parekh
2. Professor S. M. Sethna, Pro-Vice-Chancellor
3. Director of Education or his nominee
4. Professor H. P. Chokshi
5. Shri N. 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

During the year, the Syndicate held 27 meetings at which 711 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 upto 3rd March, 1982 :

Sr. No.	Name	No. of meetings held	Class of meetings		Present
			O. = Ordinary	S. = Special	
1.	Professor S. S. Merh, Ag. Vice-Chancellor	21	O. 17	S. 04	O. 16
	Professor B. C. Parekh Vice-Chancellor	7	O. 02	S. 05	S. 04
2.	Professor S. M. Sethna, Pro-Vice-Chancellor	1	O. —	S. 01	O. —
	Director of Education or his nominee	27	O. 17	S. 12	S. 01
					O. —
					S. —

1	2	3	4	5
4.	Professor H. P. Chokshi	9	O. 06 S. 03	O. 03 S. 02
5.	Shri N. D. Chokshi	27	O. 16 S. 11	O. 13 S. 10
6.	Dr. N. A. Dave	27	O. 16 S. 11	O. 14 S. 08
7.	Shri P. C. Hathi	27	O. 16 S. 11	O. 09 S. 05
8.	Shri S. B. Kulkarni	27	O. 16 S. 11	O. 16 S. 07
9.	Dr. C. P. Munshi	27	O. 16 S. 11	O. 15 S. 10

On Page No. 24, 25, 26 and 27, the number indicating Ordinary Meetings, wherever it occurs, includes the number of Ordinary Meetings adjourned to some future date/s.

1. Professor B. C. Parekh, vice-Chancellor
2. Vacant
3. Director of Higher Education
4. Director of Technical Education
5. Director of Health, Medical Services and Medical Education and Research
6. Professor D. B. Desai
7. Professor H. C. Dholakia
8. Professor V. N. Kothari
9. Shri R. R. Joshi
10. Shri Charan Singh Chawla

11. Shri Nanalal D. Chokshi
12. Shri Ranjitsinh P. Gaekwad
13. Smt. Arunaben S. Mehta
14. Shri M. D. Parikh
15. Shri D. K. Patel
16. Professor (Smt.) Amita B. Verma
17. Dr. Raojibhai F. Patel
18. Dr. (Miss) Jayshree P. Mehta
19. Shri J. R. Shah
20. Shri H. J. Parikh
21. Shri A. S. Navale
22. Dr. Shirishbhai M. Purohit
23. Shri Mahendrasinh Chauhan
24. Professor O. H. Patel
25. Dr. S. K. Shah

The new Syndicate held 2 meetings during the year under report at which 40 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 :

Sr. No.	Name	No. of meeting held	Class of meetings O. = Ordinary S. = Special	Present
1	2	3	4	5
1.	Professor B. C. Parekh Vice-Chancellor	2	O. 1 S. 1	O. 1 S. 1
2.	Pro-Vice-Chancellor	2	O. 1 S. 1	O. 1 S. 1
3.	Director of Higher Education	2	O. 1 S. 1	O. 1 S. 1
4.	Director of Technical Education	2	O. 1 S. 1	O. 1 S. 1
5.	Director of Health, Medical Services and Medical Education	2	O. 1 S. 1	O. 1 S. 1
6.	Professor D. B. Desai	2	O. 1 S. 1	O. 1 S. 1
7.	Professor H. C. Dholakia	2	O. 1 S. 1	O. 1 S. 1

1	2	3	4	5
8.	Professor V. N. Kothari	2	O. 1 S. 1	O. 1 S. 1
9.	Shri R. R. Joshi	2	O. 1 S. 1	O. 1 S. 1
10.	Shri C. S. Chawla	2	O. 1 S. 1	O. 1 S. 1
11.	Shri N. D. Chokshi	2	O. 1 S. 1	O. 1 S. 1
12.	Shri R. P. Gaekwad	2	O. 1 S. 1	O. 1 S. 1
13.	Smt. Arunaben S. Mehta	2	O. 1 S. 1	O. 1 S. 1
14.	Shri M. D. Parikh	2	O. 1 S. 1	O. 1 S. 1
15.	Shri D. K. Patel	2	O. 1 S. 1	O. 1 S. 1
16.	Professor (Smt.) Amita B. Verma	2	O. 1 S. 1	O. 1 S. 1
17.	Dr. R. F. Patel	2	O. 1 S. 1	O. 1 S. 1
18.	Dr. (Miss) J. P. Mehta	2	O. 1 S. 1	O. 1 S. 1
19.	Shri J. R. Shah	2	O. 1 S. 1	O. 1 S. 1
20.	Shri H. J. Parikh	2	O. 1 S. 1	O. 1 S. 1
21.	Shri A. S. Navale	2	O. 1 S. 1	O. 1 S. 1
22.	Dr. Shirish M. Purohit	2	O. 1 S. 1	O. 1 S. 1
23.	Shri Mahendrasinh Chauhan	2	O. 1 S. 1	O. 1 S. 1
24.	Professor O. H. Patel	2	O. 1 S. 1	O. 1 S. 1
25.	Dr. S. K. Shah	2	O. 1 S. 1	O. 1 S. 1

## 2. The Senate

The term of the office of the Ordinary members ended on 14th September, 1981. As per Section 14 (2) of Gujarat Ordinance No. 6 of 1981 dated 31-7-1981

and Section 14 (2) of Gujarat Act. No. 1 of 1982 dated 29-1-1982; the term of the Ordinary members of the Senate was extended by six months and elections were held in December, 1981/January, 1982 for the constitution of the new Senate.

The following are the members of the Senate :

1. Shri Fateshinrao P. Gaekwad
2. Professor B. C. Parekh
3. Professor P. J. Madan
4. Professor K. C. Mehta
5. Shri K. A. Amin
6. Dr. L. M. Padhya
7. Shri P. K. Laheri
8. Professor S. B. Kumta
9. Dr. O. P. Gupta
10. Dr. P. C. Parikh
11. Dr. Shambhu Dayal
12. Professor R. N. Mehta
13. Professor V. V. Modi
14. Professor D. B. Desai
15. Professor G. C. Beri—K. C. Mehta
16. Dr. O. D. Gulati
17. Professor O. H. Patel
18. Professor H. C. Dholakia
19. Professor J. D. Patel
20. Professor (Smt.) Amita B. Verma
21. Dr. S. R. Yardi
22. Professor C. V. Chandrasekhar
23. Shri B. N. Shah
24. Dr. J. R. Pathak
25. Shri R. R. Joshi
26. Dr. (Miss) Malathi Chakravorthy
27. Shri J. P. Thaker
28. Dr. S. K. Bhowmik
29. Professor V. N. Kothari
30. Her Highness Maharani Shantadevi Gaekwad
31. Shri Morarji R. Desai
32. Shri Indubhai C. Patel
33. Shri K. K. Shah
34. Dr. Jatinbhai V. Modi
35. Shri R. M. Pancholi
36. Shri Hector S. Patel

37. Shri Nilesh J. Shukla
38. Professor Rashmikant N. Mehta
39. Professor H. P. Chokshi
40. Dr. Raojibhai F. Patel
41. Professor R. C. Patel
42. Professor Markandray J. Bhatt
43. Shri Ankamma Pepalla
44. Dr. R. P. Bhatt
45. Dr. I. D. Bhatt
46. Dr. D. S. Pathak
47. Dr. (Miss) Jayshree P. Mehta
48. Dr. J. M. Lohar
49. Shri R. M. Pandya
50. Dr. (Kum.) Nalini Ogale
51. Shri A. S. Navale
52. Shri H. J. Parikh
53. Shri J. R. Shah
54. Shri N. C. Shukla
55. Shri N. K. Anadkat
56. Shri B. P. Pandya
57. Shri M. D. Parikh
58. Dr. N. D. Desai
59. Shri K. G. Patel
60. Shri M. R. Patel
61. Dr. Jatin H. Sheth
62. Shri J. Y. Rajput
63. Shri H. B. Zaveri
64. Shri G. B. Nimbalkar
65. Smt. Amarjyoti B. Patel
66. Shri Jayendra S. Shah
67. Shri Charan Singh Chawla
68. Shri P. L. Patel
69. Shri C. H. Rao
70. Dr. Shirish M. Purohit
71. Shri D. K. Patel
72. Shri Hiralal Ambalal Contractor
73. Shri Nanalal D. Chokshi
74. Shri Manharlal C. Pathak
75. Smt. Pupul Jaykar
76. Shri Raojibhai C. Patel
77. Shri A. G. Patel

78. Shri K. M. Sharma
79. Professor S. S. Merh
80. Shri N. A. Parikh
81. Shri Ranjitsinh P. Gaekwad
82. Smt. Arunaben Sanat Mehta
83. Dr. B. S. Verma
84. Shri R. M. Valiullah
85. Shri R. M. Atalia
86. Shri Ashwin M. Mehta
87. Sh4i Ashok B. Patel
88. Shri Ashokchandra M. Shah
89. Shri D. G. Jadhav

The Senate met thrice during the year, on 21st December, 1981, 3rd March, 1982 and 31st March, 1982. Forty-four members attended the meeting on 21st December, 1981, eighty-one on 3rd March, 1982 and sixty-seven on 31st March, 1982.

#### Meeting of December, 1981 :

Two Fellows were assigned to the Faculties. Replies to questions and supplementary questions were given. Ordinances mentioned in Pamphlet Nos. 26 and 27 of Hand-Book Part II 1967 were considered and passed. The proposals for amendment of Statute 199 and addition of new Statute 209-B regarding benefit of Pension Scheme were considered and passed. The Thirty-second Annual Administrative Report and Thirty-Second Annual Accounts for the year 1980-81 were considered and the excess expenditure over the revised estimates for the year 1980-81 was sanctioned. The proposal to establish a Department in the Faculty of Arts was passed. The proposal for the institution of posts on the Faculty of Science, Faculty of Education and Psychology, Faculty of Commerce, Faculty of Law, Faculty of Technology and Engineering, M. K. Amin Arts and Science College and College of Commerce, Padra and Polytechnic was considered and passed. The proposal for institution of Medal and Fellowship was passed. The report of the action taken by the Vice-Chancellor in adopting the revised budget for 1980-81 and budget estimates for 1981-82 for carrying on the business of the University was noted.

#### Meeting of 3rd March, 1982

Election of two Deans to the Syndicate, election of one Principal of the constituent College to the Syndicate, election of five teachers of the University other than Deans, Heads of Departments and Principals of constituent Colleges to the Syndicate, election of six persons who are neither teachers nor employees

nor students of the University or of the College, and election of five teachers to the Council of Post-graduate studies and Research were held.

#### Meeting of March, 31, 1982

Eighty-eight Fellows were assigned to the Faculties, replies to questions and supplementary questions were given. A prolonged discussion on various issues arising out of the answers given followed. The discussion on the Annual Financial Statement could not be taken because of a point of order raised.

#### The meeting was therefore adjourned to 2nd April, 1982

The adjourned meeting of the Senate was held on 2-4-1982 where sixty members were present. The Annual Financial Statement comprising the revised estimates for the year 1981-82 and the estimates for the year 1982-83 were considered alongwith some amendments proposed by Dr. N. D. Desai and were passed. Ordinances mentioned in pamphlet No. 28 of Hand-Book Part II-1967 were considered and passed except the one at sub item 1 regarding O.198-B. The report of the Board of Accounts for the year 1980-81 was considered and passed. The proposal for institution of posts for the Faculty of Science, Faculty of Education and Psychology, Faculty of Commerce, M. K. Amin Arts and Science College and College of Commerce, Padra, and Polytechnic was considered and passed. The action taken by the Vice-Chancellor in making, amending and repealing some of the Statutes for the purpose of making arrangements for constituting the new Senate and Syndicate as per section 14 (3) (b) of Gujarat Act, No. 1 of 1982 ( Ordinance of the Government of Gujarat No. 6 dated 31-7-1981 ) was confirmed.

### CHAPTER III—OTHER AUTHORITIES OF THE UNIVERSITY

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

The Council of Post-Graduate Studies and Research met on 27th May, 1981, 3rd November, 1981 and 28th December, 1981. Several items were to be removed, considered and recommended by the Council and approved subsequently by the Syndicate :

- (1) A Committee was appointed with powers of the Council to consider and recommend directly to the Syndicate : (i) Proposals for continuation of the various research schemes previously approved and (ii) New research schemes for implementation during 1982-83.
- (2) Panels of referees to examine the theses of 72 students for the award of Ph.D. degree in different subjects.
- (3) 15 new teachers were recognised as Post-graduate teachers for guiding students for Ph.D. degree in different subjects for various post-graduate courses including the Faculty of Medicine.
- (4) Recommended extension of period of 14 students to submit their Ph.D. Theses late under provision of O.Ph.D. 4 (iii).
- (5) One teacher from the Faculty of Arts, was permitted to do Ph.D. independently and act as his own guide under O.Ph.D. 3 (ii).
- (6) Seven students from different Faculties were permitted Ph.D. registration in related subjects under O.Ph.D. 1 (vii).
- (7) Registrations of 5 Ph.D. students were cancelled.
- (8) A grant of Rs. 6,000/- for the year 1980-81 towards the research work done by the Textile and Allied Industries Research Organisation, Baroda.
- (9) A grant of Rs. 3,000/- for the purchase of manuscripts microfilms etc. for the Vishnu Purana Research Project to the Director, Oriental Institute, for 1982-83.
- (10) The recognition of Dr. Rathindra Kumar Bhattacharya, Scientific Officer, Bhabha Atomic Research Centre, Bio-Chemistry and Food Technology Division, Trombay, Bombay, as a post-graduate teacher for guiding students of this University or persons deputed by this University as recommended by the Dean, Faculty of Science,

vide his Letter No. FS/39 dated 4-4-1981. and as per S.R.No. 58 dated 23-4-1964.

- (11) Amendment of the existing pre-requisites for admission to the Ph.D. in Nutrition in the Faculty of Science under the Department of Bio-Chemistry :

- (i) Candidates who have a post-graduate degree in the field of Life Science including M.Sc. (Bio-Chemistry), M.Sc. (Microbiology) and M.D. under the Faculty of Medicine, be considered eligible for admission to the Ph.D. in Nutrition.

- (ii) The recommendation for examining the Ph.D. theses of such candidates would rest with the Board of Studies in Bio-Chemistry and the degree of Ph.D. shall be awarded under the Faculty of Science.

- (12) Amendment of the existing O.Ph.D. 1 by adding the following provision as para 2 under O.Ph.D. 1 (iii).

“ Provided however that holders of Masters degree in “ Economics ” as a Principal subject of this University or an examination recognised as equivalent thereto with “ Economics ” as a Principal subject, shall be also eligible for registration for the Ph.D. degree in Banking /Business Finance in the Faculty of Commerce.

- (13) Recommendation of the following clause (V) after No. (IV) in O.Ph.D. 1 and of the existing clause No. (V), (VI), (VII), (VIII) as No. (VI), (VII), (VIII) and (IX) respectively in the matter of eligibility for registration for Ph.D. degree holders of full Membership or Fellow Membership of the Institution of Engineers (India) in the respective branch of Engineering provided they also possess a Bachelor's degree in Engineering.

“( V ) Holders of full Membership or Fellowship of the Institution of Engineers ( India ) shall be considered eligible for registration for Ph.D. degree in respective branch of Engineering, provided they also possess a Bachelor's degree in Engineering of any Statutory University of India or a degree recognised as equivalent thereto “.

- (14) The recognition of the Research Station of the Concrete Association of India, Bombay as a Post-graduate Research Centre for purposes of carrying on Research work for the Ph.D. degree in the field of Concrete Technology under the Faculty of Technology and Engineering of this University for the benefit of eligible students of this University or persons deputed by this University as per existing O.Ph.D.

I (viii) in view of the availability there of the equipment and other facilities.

(15) Recommended that (i) Smt. Mehta Alka Anil and (ii) Shri K. J. Mathai Ph.D. Students in the subject of Bio-Chemistry be permitted as a special case to submit their Ph.D. thesis independently as recommended by Dr. S. Srinivasan, the Head, Department of Bio-Chemistry, (who is a recognised teacher and who has specifically recommended to permit them to submit their thesis directly and independently without employing his approval as to the quality adequacy of the Research work done by these students.)

(16) The proposal (contained in letter No. 401 : 23 : LDS dated March, 26, 1980) received from Shri S. P. Singh, Director, Institute of Company Secretaries of India, Directorate of Studies, (A-2/1, Safdar-gunj Enclave,) New Delhi-16 requesting recognition of membership of the Institute for the purpose of pursuing Ph.D. Courses in Commerce and other allied subject/s was not approved.

(17) The proposal for considering Shri Arvind K. Zaiparkar eligible for doing Ph.D. in Clothing and Textile course under the Faculty of Home Science, (Baroda) on the strength of his having passed (i) Diploma in Mech. Engineering and Tailoring, Cutting, Designing from Master's College, Chicago and Board of Technical Education Bombay and his experience in the clothing and Textile field, and (ii) on his being awarded Associateship Diploma of the Clothing and Footwear Institute, London was not accepted as per existing rules.

(18) Permission to Shri B. R. Patel, registered for Ph.D. in Law and who had worked for about 4 years under the guidance of Shri S. R. Patel, who expired on 15-2-1981 to continue and complete his work on "Law and concentration of Economic Power" under the guidance of Prof. H. C. Dholakia, as a special case.

Prof. H. C. Dholakia, was permitted as a special case to guide the students working under the Late Shri S. R. Patel, in the field of Mercantile Law.

(19) Consideration of the recommendations of the Council of Post-graduate Studies and Research of the minutes of its meeting of 3-11-1981. The Syndicate vide its Resolution No. 1 (v)(56)(1) (a)(b)(c) referred back the question of recognition of 11 teachers with the observation that the criteria for according such recogni-

tion does not seem very clear and that they did not seem to have been uniformly applied.

(20) Consideration of the area of Specialization of Dr. (Mrs.) Kamala Srinivasan, Lecturer in Home Management of the Faculty of Home Science for guiding Students for Ph.D. in Home Economics on the recommendation of the Council at its meeting of 17-12-1980 vide S.R.No. 67 (1)(3) dated 17-1-1981. It was clarified that Dr. (Mrs.) Kamala Srinivasan, be considered to have been recognised to guide Ph.D. Students from 17-1-1981 in Home Management with special reference to Home Economics.

(21) Permission to Shri Y. B. Oza, a University Grant Commission Research Scholar, registered under late Dr. (Miss) S. A. Nachane, to change of he so desires the title of his thesis from "A Survey of Upa nisad-bhasayas by Sankaracharya with reference to some selected topics" to "Alankaras based on Virodha : A Study in origin and Development" under the guidance of Professor S. G. Kantawala without being required to put in entire period of Registration.

## 2. Faculties

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

Sr.No.	Name of the Faculty	Date of the meeting
1.	Faculty of Arts	15-3-1982
2.	Faculty of Science	11-3-1982
3.	Faculty of Commerce	03-2-1982
4.	Faculty of Education and Psychology	01-2-1982
5.	Medicine	22-3-1982
6.	Faculty of Technology and Engineering	24-3-1982
7.	Faculty of Fine Arts	02-2-1982
8.	Faculty of Home Science	12-3-1982

There was no meeting of the Faculty of Law during the period under report, as there was no agenda.

The following important Faculty resolutions were passed during the year. Those marked with an asterisk were approved by the Syndicate.

- (1) Faculty of Arts :
- \* (i) Renumbering of the papers for S.Y. and T.Y. B.A. in Sanskrit Language and Literature.
- Renumbering of the paper for S.Y. and T.Y. B.A. in Sanskrit Languages.
- † (ii) Prescription of text-books for T.Y. B.A., M.A. Part-I and M.A. Part-II Principal, Entire and subordinate examinations in Sanskrit Language and Literature.
- \* (iii) Revision of the existing Jyotisha Shakha Course.
- \* (iv) Prescription of text-books and syllabus in Sanskrit Language for 1st Year B.A. (Fine) Art History Course of the Faculty of Fine Arts and effect to be given retrospectively from the examination of April 1982.
- \* (v) Recommendation about the introduction of the new Diploma course in Modern Persian and the Diploma course in Modern Arabic each separately from the academic year 1982-83 and details admission requirements, Scheme of examination. Syllabii, standard of passing, award of classes, tuition fees etc.
- \* (vi) Recommended that the text books in Persian and Urdu from F.Y. B.A. to M.A. examinations and for Arabic Language from F.Y.B.A. to S.Y.B.A. (Minor) examinations for the year 1983 be approved as proposed.
- \* (vii) Recommended that the book "युग निर्माता तथा अन्य निबंध" of Dr. P. K. Desai be recommended alongwith following books on प्रेमचंद and उपन्यास as reference books for T.Y.B.A. course :
- ( १ ) हिन्दी उपन्यास : दे. शिवनारायण श्रीवास्तव, प्रकाशन सरस्वती मंदिर, वाराणसी मुख्य डा. ८, प्रथम संस्करण, सं. २०१६
- ( २ ) प्रेमचंद : आलोचनात्मक परिचय, दे. राम विलास शर्मा, प्रकाशक सरस्वती प्रेस, अनारस
- ( ३ ) प्रेमचंद : व्यक्ति और साहित्यकार, दे. मन्मथनाथ गुप्त, प्रकाशक— सरस्वती प्रेस अनारस १९६१. मुख्य. डा. १२
- ( ४ ) प्रेमचंद : एक विवेचन, दे. छिन्द्रनाथ महान, प्रकाशक : राजकमल प्रकाशन, दिल्ली, १९६८ मुख्य. डा. ७.
- \* (viii) Recommended that the text book viz. "सेवासदन तथा गोदान संक्षिप्त संस्करण" be prescribed in place of "छात्र सौख्य" for T.Y.B.A. (Major) paper V in the subject of Hindi and the same be made effective retrospectively from the academic year 1981-82.

- \* (ix) Recommended that German be allowed as a subsidiary subject with Hindi at M.A. (Principal) level.
- \* (x) Recommended that the following topics be deleted from the courses prescribed for T.Y.B.A. paper VI practical Hindi :
- हिन्दी जोड़ीयां, वज्र अवधी तथा रवरी जोड़ी
- \* (xi) Recommended that the following topics be added in the courses prescribed for T.Y.B.A. Paper VI--practical Hindi :
१. भाषाई सामान्य परिचय  
२. भाषाई परिभाषा तथा इसकी सामान्य विशेषताये  
३. वाक्य विन्यास  
४. हिन्दी क्षेत्रनमें वर्तनकी समस्याये.
- \* (xii) Recommended that the text-books for T.Y.B.A. (Compulsory) and F.Y.B.A. (Optional) in the subject of Gujarati be approved as proposed.
- \* (xiii) Recommended that the text books for S.Y.B.A. (Minor) paper I and II in the subject of Gujarati be approved as proposed.
- \* (xiv) Recommended that the text books for M.A. (principal and Entire) paper vii (a) in the subject of Gujarati as proposed.
- \* (xv) Recommended that the topics to be covered at T.Y.B.A. paper V and M.A. (Principal and Entire) Paper V, VI VII, (b) and VIII (a) in the subject of Gujarati be redistributed/specified as per Appendix F.
- \* (xvi) Recommended that the Syllabus of S.Y.B.A. (Major) Paper II, III and T.Y.B.A. Paper IV in the subject of Gujarati be approved as proposed.
- \* (xvii) Recommended that the text-book/teaching materials for Y.F.B.A.-Compulsory English, Additional English and Optional English be approved as proposed.
- \* (xviii) Recommended that the text-books etc. for S.Y.B.A. (Minor) Paper I and II in the subject of English be approved as proposed.
- \* (xix) Recommended that the text-books etc. for M.A. (Principal) Part-I and Part-II and M.A. (Subordinate) Papers I and II in the subject of English be approved as proposed.

- \*(xx) Recommended that the text-books etc. for Compulsory English for the various courses in the Polytechnic and the Faculty of Technology and Engineering be approved as proposed.
- \*(xxi) Recommended that the text-books etc. for Compulsory English for various courses in Baroda Sanskrit Mahavidyalaya be approved as proposed.
- \*(xxii) Recommended that Canadian Literature be introduced as one of the Optionals to be offered at M.A. Part-II Paper-VIII in addition to the other four options.
- \*(xxiii) Recommended that Wordsworth, 'Selected Poems' with an introduction by K. R. Narayanan (O.U.P.) be prescribed for F.Y.B.A. (Major) course instead of the edition prescribed 'Wordsworths Selections'.
- \*(xxiv) Recommended that the marks for Oral Examination for Diploma in French be raised from 40 to 100 to bring it on par with the Scheme in German and Russian and the same be made effective from the examination of April, 1982.
- \*(xxv) Recommended that the Provision of Grade 'Distinction' be introduced in the results for Diploma in French German and Post-Diploma in German to bring French and German Examinations on par with Russian which has already introduced 'Distinction' as follows and the same provision be made effective from the Examinations of April, 1982 :
- |                            |                         |
|----------------------------|-------------------------|
| Ist Class with Distinction | : 75% and above in all. |
| Ist Class                  | : 60% and above.        |
| IInd Class                 | : 50% and above.        |
| Pass Class                 | : 40% and above.        |
- \*(xxvi) Recommended that Russian be introduced as an optional subject at F.Y.B.A. level from the academic year 1982-83 and the Syllabus for Russian be approved as proposed.
- \*(xxvii) Recommended that French be introduced as an optional subject at F.Y.B.A. level from the academic year 1982-83 and the Syllabii for French be approved as proposed.
- \*(xxviii) Recommended that the text-books from F.Y.B.A. to M.A. examinations in the subject of Marathi be approved as proposed and the same be made effective from the academic year 1982-83.

- \*(xxix) Recommended that in view of the inclusion of one additional paper as being recognized at T.Y.B.A. course to be made effective from the academic year 1981-82 the serial order of the five papers at T.Y.B.A. be arranged as proposed.
- \*(xxx) Recommended that S.Y.B.A. (Special) paper III viz., Modernization of Societies in the subject of Sociology be rearranged and approved as proposed and the same be made effective from the academic year 1981-82, from the examination of April, 1982.
- \*(xxxi) Recommended that T.Y.B.A. Paper VII viz. Indian Society in the subject of Sociology be rearranged and approved as proposed and the same be made effective from the academic year 1981-82, the examination of April, 1982 and after.
- (xxxii) Recommended that the topic No. 5-A viz. "Elements of predicate calculus" be added to existing details of syllabii in the paper of Logic for F.Y.B.A.
- \*(xxxiii) Recommended that the existing M.A. course in History be revised and approved as proposed and the same be made effective from the academic year 1982-83, commencing from June, 1982.
- \*(xxxiv) Recommended that the existing F.Y.B.A. Courses in History be revised and approved as proposed and the same be made effective retrospectively from the academic year 1981-82 which has commenced from June, 1981.
- \*(xxxv) Recommended that the existing Scheme for M.A. Economic course be revised and approved as proposed.
- \*(xxxvi) Recommended that the existing scheme of Examinations, syllabii, etc. for F.Y.B.A. and M.A. Part-I in the subject of Geography be revised and S.Y.B.A. and T.Y.B.A. be reworded and approved as proposed and the same be made effective from the academic year 1982-83, commencing from June, 1982.
- \*(xxxvii) Recommended that the existing provisions contained in (i) O. A.5 (A), (ii) O. A.7, (iii) O. A.8, (iv) O. A.9, (v) O. A.20 and (vi) O. A.21 of the three year B.A. Degree course of the Faculty of Arts be revised and approved as proposed.
- (2) Faculty of Science :
- \*(i) Recommended that the existing requirements for admission to the Diploma in Laboratory Techniques course be modified and approved as under and the same be made effective from June, 1982 :

"Any candidate who has passed the New S.S.C. Examination (Xth Std.) of the Gujarat State or an examination recognised as equivalent thereto irrespective of passing it with English as one of the subjects with one year practical experience in any laboratory will be held eligible for seeking admission to the Diploma in Laboratory Techniques Course. Admission to the Diploma Course will be regulated on the basis of the result of the admission test to be conducted by the Department of Bio-Chemistry".

\*(ii) Recommended that the existing Syllabii for Theory paper I of M.Sc. (Previous) and theory paper I of M.Sc. (Final) in name of the subject? Be revised and approved and be made effective from June, 1982.

\*(iii) Recommended that the existing requirements for registration for Ph.D. in Nutrition run under the Department of Bio-Chemistry be referred to the Council of Post-Graduate Studies and Research.

\*(iv) Recommended that the existing syllabii for Post-M.Sc. Diploma in Nutritional Bio-Chemistry Course be revised and approved and be made effective from June, 1982.

\*(v) Recommended that the existing syllabuses for various classes in the subject of Geography be revised and approved and be made effective from June, 1982.

\*(vi) Recommended that the proposed change in the existing Compulsory Papers and Optional Papers prescribed for M.Sc. Final in the subject of Mathematics be revised and approved and be made effective from June, 1982.

\*(vii) Recommended that the existing Syllabus in the subject of Physics for M.Sc. (Previous) and M.Sc. (Final) to be covered in four papers for each class instead of the existing three papers for each class be revised and approved and be made effective progressively from June, 1982.

\*(viii) Recommended that the proposed change in deciding the number of marks for class records in each paper of M.Sc. (Previous) and M.Sc. (Final) be approved and made effective from June, 1982.

\*(ix) Recommend that the proposed course in Bio-Physics to be offered by Physics Department to post-graduate students of Faculty of Science be approved and made effective from June, 1982.

\*(x) Recommended that the proposed change in the Compulsory subject and Optional subjects at the M.Sc. (Final) examination in Statistics be approved.

\*(xi) Recommended that the Dean's proposal in the matter of making the Practical Examination fully internal at all the 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 approved in principle. This change may be introduced from 1982-83 only by the Departments which are willing to do.

\*(xii) Recommended that the proposed Interdisciplinary courses at the M.Sc. level be considered at the meetings of the staff members, and Heads of Departments of the Faculty of Science.

\*(xiii) Recommended that the proposed additional criteria to assess the students at the M.Sc. examination be approved and be referred to the respective Boards of Studies under the Faculty of Science.

(3) Faculty of Commerce :

\*(i) Recommended that the schemes, syllabii etc. for the new stream of subjects in Banking at M.Com. Part I and Part II be approved.

\*(ii) Recommended that the schemes, syllabii etc. for the new stream of subjects in Accounts at M.Com. Part I and Part II be approved as proposed.

\*(iii) Recommended that the scheme of specialization, syllabii etc. for the new M.Com. Part I and Part II in the subject of Commerce including Business Administration be approved as proposed.

\*(iv) Recommended that the details of syllabii, schemes of examinations, recommended books etc. for the new streams of subjects in the subject of Business Economics at M.Com. Part I and Part II be approved as proposed.

\*(v) Recommended that the details of syllabii for the existing paper entitled "Indian Economic Problems" of T.Y.B.Com. be revised as proposed.

\*(vi) Recommended that the Syllabi for M.Com. stream/specialization in Co-operation, three Major and one Minor papers at M.Com. Part II be approved as proposed.

\*(vii) Recommended that the Syllabii for M.Com. Part I and M.Com. Part II in the subject of Statistics be approved as proposed.

\*(viii) Recommended that the O.Com. 35, O.Com. 36 and O.Com. 38 be amended as proposed.

\*(ix) Recommended that the first examination according to the new scheme of M.Com. course will be held as under :

- ( i ) M.Com. Part I Examination—March/April, 1983.
- ( ii ) M.Com. Part II Examination—March/April, 1984.

\*( x ) Students passing Bachelor of Commerce/B.A. Economics or Psychology or Sociology Major or B.Sc. ( Mathematics/Statistics with Economics as Major ) of this University or an examination recognised as equivalent thereto be considered eligible for seeking admission to M.Com. Part I course.

#### 4. Faculty of Education and Psychology :

\*( i ) Recommended that the Ordinances relating to the M.Ed. courses ( from O.M.Ed. 2 to O.M.Ed. 7 ) be revised and approved and the same be made effective from the academic year 1982-83.

\*( ii ) Recommended that the special method subject " Social Studies " be approved and be included in the B.Ed. course as under :—  
" 628 : Teaching of Social Studies ( Method and subject matter ) :  
Credit 4 ".

#### 5. Faculty of Medicine :

\*( i ) The present name of the Board of Studies in Anatomy and Physiology be changed to Board of Studies in Anatomy, Physiology and Bio-Chemistry and the relevant Ordinance be also amended suitably.

\*( ii ) The existing syllabus of Physiology and Bio-Chemistry be changed and approved and be made effective for new batch of students admitted in June 1981.

\*( iii ) The Department of " Preventive and Social Medicine " be redesignated as the Department of " Community Medicine ".

( Note :—The recommendations marked with \* are approved by the Syndicate)

#### 6. Faculty of Technology and Engineering :

\*( i ) Recommended that the existing marks of Term Work including viva be increased from 25 marks to 50 marks for the subjects of Theory of Structure II, RCC and Steel Structures. Estimation and Valuation, Public Health Engineering subjects prescribed at the S.S. of B.E. IV ( Civil ) 4 years course as follows :  
II Semester of B.E. III ( c ) 4 year course and  
II Semester of B.E. IV ( c ) 5 year course.

	Theory of	Theory	Pract.	T.W. Viva	Total
1.	Theory of Structures II	100	—	50	150
2.	R.C.C. and Steel Structures	100	—	50	150
3.	Estimation and Valuation	100	—	50	150
4.	Public Health Engineering	100	—	50	150
5.	Design and Drawing (PHE)	—	50	50	100
6.	Engineering Economics and Works Management	100	—	—	100
		500	50	250	800

Recommended further that the above change be made effective from academic year 1982-83.

\*( ii ) Recommended that the existing scheme of teaching and examinations, details of syllabi etc. prescribed for the part-time degree course in Mechanical Engineering be approved and the same be made effective from the academic year 1982-83.

\*( iii ) Recommended that the existing Diploma course in Production Engineering be revised and approved. Further recommended that the New Post-Diploma course in Production Engineering be introduced and the schemes of teaching and examination and syllabi be approved academically.

Further recommended that the above revised proposed Diploma course be not implemented unless the required financial implications by way of recurring and non-recurring expenditure, other physical facilities etc. are made available by the competent authority such as the U.G.C., State Government and University. The relevant statute be amended suitably if required.

\*( iv ) Recommended that the existing subjects of ( i ) Man-made Fibre be shifted from 1st Semester to IIInd Semester and ( ii ) Engineering of Textile Structure from IIInd Semester to I Semester which are prescribed for the B.Text. ( Tech. ) and B.Text. ( Engg. ) courses be approved and be made effective from the examination of Oct./Nov., 1983.

\*( v ) Recommended that the examination in the subject of Dye House Practicals ( NUES ) be converted into a University Examination and the practicals be assessed by the examiners appointed by the University for the final year B.Sc. Tech. Examination and the said change be made effective from the examination of October/November 1983.

\*(vi) Recommended that the :

The existing four-year Diploma in Petrochemicals Technology at Polytechnic of this University be converted into a three-year Diploma in Petrochemicals Technology in order to maintain uniformity with other Diploma courses offered by the Faculty of Technology and Polytechnic in view of the fact that 5 years of the contract to run the Diploma course based on four years are over.

\*(vii) Recommended that the Schemes of teaching and examination and syllabii prepared by the sub-committee appointed by the Board be approved and be made effective from the academic year 1982-83.

\*(viii) Recommended that the existing elective subject Techniques be introduced as a compulsory subject in place of the subject of "Control Components" in Part II M.E. (E) (ACE). The details will remain the same as per existing syllabus scheme of teaching and examination of the subject.

\*(ix) Recommended that the subject "Digital Techniques" appearing as an option with Industrial Control Engineering I' in Part II be deemed as deleted from 1982-83.

\*(x) Recommended that the marks assigned to the Head 'TW including Viva' for the subject of 'Electronic Project' in the II Semester of B.E. III/V (Electronics) and B.E. IV (Electronics) (4 years) and that for the subject of "Instrumentation Project" in the II Semester of B.E. III/V (Electronics) and B.E. IV (Electronics) (4 years) (Instr. Specialization) be reduced from 200 marks to 100 marks and the said provision be made effective from the academic year 1982-83.

\*(xi) Recommended that the introduction of the proposed Post-Diploma Diploma course in Electronics in the Polytechnic be approved academically and the newly proposed Post-diploma courses in (i) Industrial Electronics and (ii) Process Instrumentation be implemented only after the required financial implications by way of recurring and non-recurring expenditure, other physical facilities etc. are made available by the competent authorities such as U.G.C. State Government and University. The relevant Statute be amended suitably.

\*(xii) Recommended that some of the important topics be introduced as Electives at the IIIrd and IVth Semester of Applied Physics course, and the same be made effective from the academic year 1982-83.

\*(xiii) Recommended that the existing teaching and examination scheme of M.Pharm. be revised and approved and the same be made effective from the academic year 1982-83.

### 7. Faculty of Fine Arts

\*(i) The Viva-voce be considered as a separate head of passing for M.A. (Fine) in Painting-Sculpture, Applied Arts, Graphic Arts and the passing standard thereof be 50% and passing therein be deemed compulsory.

\*(ii) Courses in Pottery and Ceramics be provided for being offered to the students of IIIrd Year Painting and IVth Year Painting class who have already completed course No. 215 (Pottery and Ceramics) in IIrd Year Painting and the said provision be approved in principle by the majority of the members of the Board.

\*(iii) The provision indicating the Examination and Tutorial marks for non-specialization subjects in 3rd Year B.Mus. Class be approved and the same be incorporated suitably in the prospectus of the Music College.

	Exam. Marks	Tutorial Marks	Total Marks
1. English	70	30	100
2. Aesthetics	70	30	100

\*(iv) The proviso contained in para two of the existing O.172 A be amended to read as under :—

" Provided that such of the students desiring to join the Degree/ Diploma classes in Music, Dance and Dramatics shall not be required to obtain the permission as required under (iii) above from the Head of the first institution in which they are previously admitted".

\*(v) The students concerned who drop out in the middle of the terms at the Diploma or Degree courses in the Music College be not admitted again to the said courses straight way, as a matter of right but their admissions will be regulated on merit judged on the basis of their performance at the aptitude test and if they are found fit for readmission.

\*(vi) Recommended that the existing details of syllabii prescribed for M.Sc. (Applied) Mathematics course be revised and approved and the same be made effective from the academic year 1982-83.

\*(vii) Recommended that the proposal of the Principal, Polytechnic regarding admission to S.Y. Diploma class after passing D.M.E., D.E.E. and D.C.E. be approved. Further resolved that the schemes of Teaching and examination be also approved as per and the same be made effective from the Academic year 1982-83.

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

- \*(vi) For each theory paper 25 marks are reserved for record of assignments and students in Museology are to submit assignments regularly. These assignments are to be examined by the teachers. Marks thus obtained by the students may be made known to them so that the students' own performance will be made known to them so that the students' performance will improve in time. Later, the marks will be submitted to the University.
- \*(vii) Minimum marks for passing in all heads of passing for M.A. (Fine) Museology should be 40% uniformly. For the purpose of implementing the above provision (i) Practical/s and (ii) Viva-voce will be deemed as separate heads of passing.
- \*(viii) The candidates reading for the M.A. (Fine) Museology course will be required to undergo practical training during vacations for a minimum period of 6 weeks before their appearing at the Final Examination in the recognised museum/s/conservation laboratories at their own cost.
- \*(ix) The existing marks viz. "70" assigned to practicals under Part III of the M.A. (Fine) Museology degree course be replaced by "100" marks and the figure of "30" marks be deemed as deleted from the existing examination scheme.

#### 8. Faculty of Home Science :

- \*(i) The existing scheme of examination of B.Sc. (Home)—Child Development specialization Programme be revised and approved and the same be made effective from June, 1982.
- \*(ii) Early Childhood Education I and II as a combined course instead of Pre-School Education be replaced as a Pre-requisite for Early Childhood Education Seminar and Nursery School Participation and the same be made effective from June, 1982 admissions.
- \*(iii) Student should secure an over all 'C' grade as a class grade in order to qualify to appear at the University Examination of the Post-Graduate Diploma in Pre-School Education
- \*(iv) The Scheme of Education for the Under-Graduate Diploma in Child Development be revised.
- \*(v) The subject of English be introduced for Under-Graduate Diploma in Child Development Programme and the said provision be made effective from June, 1982 admissions.
- \*(vi) The courses and credits distribution for the Under-Graduate Diploma in Child Development be approved.
- \*(vii) Resolved that Holders of Under Graduate Diploma in Child Development with 'A' Grade be admitted to the F.Y.B.Sc.

- (Home) class of the three-year B.Sc. (Home) Child Development specialization degree course.
- \*(viii) The holders of Under-Graduate Diploma in Child Development who are admitted to the F.Y. B.Sc. (Home) class will be required to complete all the core courses of the F.Y. B.Sc. (Home).
- \*(ix) New M.Sc. (Home) with specialization in Early Childhood Education Degree course be introduced and approved academically subject to getting financial aid from the U.G.C.
- \*(x) The course numbers of M.Sc. (Home) Foods and Nutrition degree course and M.Sc. (Home) Dietetics degree course be revised and approved.
- \*(xi) The abbreviations viz. FN (S) and FN (D) be prescribed for M.Sc. (Home) Foods and Nutrition course and M.Sc. (Home) Dietetics course resp. with a view to differentiate between the two stream.
- \*(xii) The following courses be approved as elective courses for the benefit of students of other departments of the Faculty of Home Science.
  - (a) Food Preservation FN 264 A—3 credits be approved as per revised Enclosure.
  - (b) Principles of Normal Nutrition—FN 268 A—3 credits be approved as per revised Enclosure.
  - (c) Nutrition During Growth and Development—FN 3651—3 credits be approved as per revised Enclosure.
  - (d) Community Nutrition FN—362 —A5 credits be approved as per the detailed outline of this course approved previously.
- \*(xiii) Reports on internship for M.Sc. (Home) Dietetics Degree course be required to be submitted by students concerned and this guideline be printed in the prospectus of the Faculty.
- \*(xiv) The following Examination scheme for M.Sc. (Home) Dietetics be approved.
 

Class record including internal grade for Internship	}	2/3 weightage
Examination : Internship and Viva-voce	}	1/3 weightage
- \*(xv) (i) The M.Sc. (Home) Dietetics Degree Course students be required to visit to Food industries in the Gujarat State and Bombay area as a part of their practical training in Food Science/Food Technology/Consumer Food Research provided stipends and T.A. are borne by the industries and Factories concerned be approved.

(ii) The Chairman of the Board be authorised to explore the possibilities of getting the above scheme duly approved by the Industries/Factories concerned in the light of discussions that took place in the Board.

\*(xvi) The following course be considered as optional related for M.Sc. (Home)—Clothing and Textiles program with effect from June, 1982 admission be approved.

“Introduction to finishes and their characteristics C.T. 547-2-4.

1. Classification and purpose of finishes.
2. Starches, resins and auxiliaries used in finishing.
3. Finishing processes according to fibers, their characteristics and effects on properties.
4. Lab. experiments to study the Finishes.

\*(xvii) The existing B.Sc. (Home) Clothing and Textiles three-year Specialization Programme be revised and approved.

\*(xviii) The existing B.Sc. (Home) Clothing and Textiles specialization Examination be revised and approved and be made effective from 1983 examination.

\*(xix) The existing title of course EE 659—writing in Home Science be changed to EE 659—Production of Home Science Literature.

\*(xx) (a) EE 552 and EE 533 be required related courses for Optional Group of Education.  
(b) EE 653 be required related course for Optional Group of Extension.  
(c) Any other course of the Optional Groups can also be taken as a related course.

\*(xxi) The existing course EE 356—Technology in Education of B.Sc. (Home)—Home Science Education and Extension Programme be revised and approved and be made effective from June, 1982 admissions.

\*(xxii) (a) The provision of Practicals from the existing course of H.M. 170—“Introduction to Home Management” of B.Sc. (Home) Programme be deleted and hence the said course be revised now to read as H.M. 170 Introduction to Home Management—3 credits. Theory course only and the change be made effective from June, 1982 admissions.

(b) Total Credits of courses viz (i) H.M.—377-Growth and trends in household equipment—2 credit, (ii) H.M.-377 (a) Repair and maintenance of Household—2 credits and (iii)

H.M.-277 Household Equipment—4 credits be redistributed as under :—

(i) H.M.-277 Household Equipment (Non-Electrical)—4 credits and

(ii) H.M.-377 Household Equipment (Electrical)-3 credit.

The outline of the above redistributed courses be approved and be made effective from June, 1982.

(c) Total Credit of the courses viz. (i) H.M.-372 Consumer Economics-3 credit (ii) H.M.-372 (a) Principles of Good Buymanship and consumer responsibility 3 credits and (iii) H.M. 373 Relating and Merchandising of Household products—2 credit be redistributed as under :—

(i) H.M.-372-Consumer Economics—3 credits.

(ii) H.M.-393-Retailing and Merchandising of Household Products—3 credits.

The outline of the above redistributed courses be approved and be made effective from June, 1982.

(f) The Unit 4 to H.M.-371 (a) Home Landscaping and Gardening-2 credit course of B.Sc. (Home) Programme be modified.

\*(xxiii) The M.Sc. (Home)—Home Management program be revised and approved and the same be made effective from June, 1982 admissions.

\*(xxiv) The existing scheme of B.Sc. (Home) Home Management Examination be revised and approved and the same be made effective from 1983 Examinations.

\*(xxv) Revised course numbers of B.Sc. (Home) Home Management three year degree programme be approved.

\*(xxvi) The detailed outline of the courses for M.Sc. (Home) Home Management Programme be approved.

\*(xxvii) Report of the committee appointed by the Board of Studies in Child Development at its meeting held on 8th October, 1981 for formulating to develop the English course content be approved.

\*(xxviii) The following change in numbers of E.E. courses be approved: “EE 151—Orientation to Rural life be changed to EE. 256. EE. 152—Selection and use of Visual Education Media be changed to EE 151”.

\*(xxix) (i) Applicants who have been condoned in any others than English subjects may be considered for first year B.Sc.

admission on the condition that they will not be considered for admission to the area of specialization for which the said subject is a core requirement.

- (ii) For the First Year Home Science admission, first 175 seats will be filled on merit i.e. percentage secured at the Higher Secondary School final Examination. For filling the remaining seats, an entrance test on a experimental basis for 1982 admissions will be given to the students who have secured less than 40% in the above examination (subject to modification according to the Higher Secondary result) and the admission will be decided on the basis of the marks secured at the entrance test.

\*(xxx) The following conversion formula be adopted for the Under-graduate Examination of the Faculty of Home Science:

O	90% above
A	80%-89%
B	70%-79%
C	60%-69%
D	50%-59%
E	40%-49%
F	01%-39%

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

#### 9. Faculty of Law :

- \*(1) Recommended that the existing structure of the LL.M. course be revised and approved and the same be made effective progressively from June 1982 admission.
- \*(2) Recommended that the proposed re-arrangements for the topics in the LL.B. courses be approved and the same be made effective progressively from June, 1982 admissions.
- \*(3) Recommended that :
- (i) Candidates obtaining exemption in a paper at a semester examination be allowed to claim exemption in the corresponding paper at the LL.B. examination based on yearly system.
- (ii) Candidates who are deficient in the subject or subjects at the semester examination/s and who have not earned exemption by obtaining the required percentage of marks as per rules shall not be held eligible to claim exemption in res-

pective subjects at the LL.B. examination and they shall have to clear the deficient subjects by appearing at the LL.B. examinations based on yearly system.

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

#### 4. 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	12th Oct., 1981
2.	Persian, Urdu and other Asian Languages and Literature	15th Sept., 1981
3.	Hindi Language and Literature	11th Sept., 1981
4.	Gujarati Language and Literature	15th Sept., 1981
5.	Marathi Language and Literature	15th Sept., 1981
6.	English Language and Literature	19th Sept. 1981
7.	Modern and Ancient European Languages and Literature	16th Sept., 1981
8.	Archaeology and Ancient History Culture	20th Nov., 1981
9.	History (i) History and Archaeology Ancient History and Culture	20th Nov., 1981
10.	Philosophy	7th Oct., 1981
11.	Linguistics	18th Sept., 1981
12.	Library Science	16th Oct., 1981
13.	Political Science	7th Oct., 1981
14.	Economics	13th Oct., 1981
15.	Sociology	16th Oct., 1981
16.	Physics and Meteorology	22nd Sept., 1981
17.	Chemistry	23rd Sept., 1981
18.	Botany	21st Sept., 1981
19.	Zoology	26th Sept., 1981
20.	Bio-Chemistry	24th Sept., 1981
21.	Microbiology	25th Sept., 1981
22.	Geology	24th Sept., 1981
23.	Mathematics	28th Sept., 1981
24.	Statistics and Acturial Science	26th Sept., 1981
25.	Geography	5th Oct., 1981
26.	Education and Educational Administration	29th Sept., 1981

1	2	3
27. Psychology		29th Sept., 1981
28. Banking and Business Finance		13th Oct., 1981
29. Accounts		14th Oct., 1981
30. Commerce including Business Administration		14th Oct., 1981
31. Co-operation		15th Oct., 1981
32. Business Economics		15th Oct., 1981
33. Anatomy and Physiology		30th Sept., 1981
34. Pathological Science, Pharmacology and Forensic Medicine		30th Sept., 1981
35. (i) Medicine, Surgery, Mid-Wifery etc.		3rd Oct., 1981
(ii) Medicine Surgery, Mid-Wifery etc.		19th June, 1982
36. Physiotherapy		16th Oct., 1981
37. Technology (Textile)		22nd Oct., 1981
38. Civil Engineering and Applied Mechanics		23rd Oct., 1981
39. Mechanical Engineering		23rd Oct., 1981
40. Metallurgical Engineering		20th Oct., 1981
41. Electrical Engg. and Electronics		10th Dec., 1981
42. Chemical Engineering		17th Oct., 1981
43. Architecture		19th Oct., 1981
44. Applied Chemistry		21st Oct., 1981
45. Applied Physics		20th Oct., 1981
46. Applied Mathematics		21st Oct., 1981
47. Pharmacy		22nd Oct., 1981
48. Law		10th Oct., 1981
49. Painting, Sculpture, Applied Arts, Arts History and Graphic Arts		1st Oct., 1981
50. Music, Dance and Dramatics		18th Sept., 1981
51. Museology		16th Sept., 1981
52. Child Development		7th Oct., 1981
53. Foods and Nutrition		22nd Sept., 1981
54. Home Science Education and Extension		23rd Sept., 1981
55. Clothing and Textiles		25th Sept., 1981
56. Home Management		28th Sept., 1981
57. Social Work		5th Oct., 1981

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

## CHAPTER IV—BOARDS AND COMMITTEES

### 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 team in best physical condition and in boxing be sent if they reach the standard recommended by the Selection Committee.

### 2. Publication 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, viz. Animal Morphology and Physiology and PAVO, Ornithology for the year 1981-82;
- (ii) Seven works: (a) Purusottamakathacampu of Nrsimha, (b) Krsnavilasacampu of Keshavaraya, (c) Batukabhaskara, (d) Pratyansiravidhana of Atharvaveda, (e) Revised Edition of Bharat's Natyasastra with Abhinavabharati, (f) Reprinting of the work 'Vaisesikasutra', and (g) Reprinting of 'Balkanda' Vol. I of Valmiki Ramayana under the Gaekwad Oriental Series;
- (iii) Publishing the book 'Taxidermy';
- (iv) Child-to-child Project at Village Sangama;
- (v) Three works, viz.: (a) Researches in Class-room Climate and Pupil Motivation, (b) Developing concern for Excellence, and (c) Studies in Innovations and changes in Education;
- (vi) Publishing "Studies in Constitutional Law";
- (vii) Research Project "Thing-Person Orientation and Alientation";
- (viii) Urban Co-operative Banks—Role and Development in India with reference to Gujarat;
- (ix) Yugin Pariprekshya main Kabir aur Akha ke Kavya main Abhi-vyakya Vichardhara ka Tulanatmaka Adhyayana;
- (x) Growth, Productivity, Technical Progress and Pricing in Electricity in India; and
- (xi) An additional amount for completing the work of "Prof. Balvantrai Thakorni Kavita" under Prof. B. K. Thakore Publication Series.

### 3. Standing Committee on equivalence of Examinations

The Committee met on 27th May, 1981 and considered a number of items regarding equivalence of various examinations. The decisions taken at the meeting are as under:

- ( i ) The Baccalaureate Examination for Secondary Schools conducted by the Ministry of Education, Republic of Iraq 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 the students concerned have qualified for the award of the said certificate and the said examination is passed with atleast 5 subjects, including " English " and from amongst the remaining subjects atleast 3 required respective stream subjects either Arts or Science or Commerce as the case may be and with the required percentage 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.
- ( ii ) The F.Y.B.A./F.Y.B.Sc. and F.Y.B.Com. Examinations conducted by the Bhavnagar University, Bhavnagar be recognised as equivalent to the corresponding F.Y.B.A./F.Y.B.Sc. and F.Y.B.Com. examinations of this University respectively on reciprocal basis for purposes of admission to available higher courses of studies in this University, provided the said examination/s are passed as a regular candidate and the student concerned is otherwise eligible for admission thereto as per existing rules.
- ( iii ) The Visharad/Shastri and Acharya examinations conducted by the Maharshi Dayanand University, Rohtak be recognised as equivalent to the corresponding Visharad/Shastri and Acharya examinations of this University on reciprocal basis for purposes of admission to available higher courses of studies in this University, provided the said examination/s are passed as a regular candidate and the student is otherwise eligible as per existing rules for admission thereto.
- ( iv ) The B.Sc. ( Home Science ) examination conducted by the Maharshi Dayanand University, Rohtak be recognised as equivalent to the B.Sc. ( Home ) examination of this University on reciprocal basis subject to provision of O. 173 ( A ) under which the Dean of the Faculty of Home Science is empowered to conduct an admission test/prescribe certain prerequisites to be satisfied by such students etc. in order to facilitate the Faculty to regulate such admissions.
- ( 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 108 students for admission to the various courses of this University be noted.

- ( vi ) Made provision for grant of eligibility certificates to Iranian students for admission to available higher courses of studies for the academic year 1981-82.

#### 4. Committee of Deans and Heads of Institutions

The Committee held five meetings during the year. In these meetings they considered the policy with regard to holding examinations, completion of courses, commencement of vacation and fresh term for the year 1981-82 in respect of the situation arising from the students' demand for mass promotion; policy of admission of S/C. and S/T. candidates on preferential basis at post-graduate level, and finding of proportionate privilege leave to the Deans when they remain on duty during the vacation period.

#### 5. Finance and Establishment Standing Committee

Nine 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 and sabbatical leave.

The Committee met as a Budget Committee on 27th January, 1982. On scrutinising various proposals received from the Faculties, Institutions and Offices of the University and submitted to the Syndicate it revised estimates for the year 1980-81 and estimates for the year 1982-83.

#### 6. Investment Committee

The Committee held six meetings during the year and its recommendations in respect of Investment of the University Funds were approved by the Syndicate.

#### 7. Press Supervisory Committee

Four meetings of the Committee were held during the year. At these meetings reports of the Press Manager regarding the working of the Press Stationery Unit, Publication and Sales Unit, and printing programme, purchase of water cooler, to give powers to the Manager to employ daily wage workers at the rate not exceeding Rs. 20/- per day for a period of two months, and purchase of paper, stationery, equipment, etc. were considered.

#### 8. Wardens' Committee

Two meetings of the Committee were held during the year, i.e. on 27th June, 1981 and 30th January, 1982. At these meetings, recommendations were made about Faculty-wise and Hall-wise allocation of seats for students in the

first and second terms of the academic year, campus security, repairs and maintenance of the hall facilities given to the students, revised budget estimates for the year 1981-82 and budget estimates for the year 1982-83. Consideration of formation of Furniture and Utensils Committee for Halls of Residence, increase in Mess-cum-hall Deposit from Rs. 150/- to Rs. 300/- and General Funds fee from Rs. 10/- to Rs. 25/- from the academic year 1982-83, delegation of powers to the Warden to purchase articles for the Halls worth Rs. 100/- instead of Rs. 50/- at a time without inviting quotations.

#### 9. National Service Scheme

One meeting of the Advisory Committee for National Service Scheme was held during the year. It approved the report of (i) General Activities of NSS and (ii) the Special camping Programme, (iii) the enrolment of 1,500 students for General Activities and 750 students for the special campings Programme, (iv) the work Diary for distribution to NSS volunteers for noting their daily work done by them.

#### 10. Selection Committees

During the period from 1-4-1981 to 31-3-1982 16 meetings of the Selection Committee appointed under Section 48-(2) were held and they recommended 15 candidates for appointments to the posts of Professors and/or Readers in various Faculties and Institutions in the University. There were 33 meetings of the Standing Selection Committee for Junior posts and 13 meetings of the Standing Selection Committee for Class III posts and recommended 67 and 14 candidates respectively for appointment to various posts in the University.

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

The Committee met on 25-1-1982. The total amount of help given to students by way of tuition fees, examination fees, drawing materials loan etc. during the year 1981-82 was Rs. 41,262/-.

#### 12. Board of Extra Mural Studies

The Board held its meeting on 14th September, 1981 and recommended a programme of Extension Lectures by University teachers and outside experts for which an amount of Rs. 10,000/- was sanctioned.

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

The Committee met on 23rd December, 1981 for considering the amendment of Rule No. (g) of Chapter LXX of Part II of Handbook—Part II, 1967, suggestions regarding upgrading of the facilities at the Health Centre and restructuring of the staffing pattern.

#### 14. Board of Accounts

The Board met twice and submitted its report on the accounts of the University for the year 1980-81 as required under Statute 105 to the Senate at its meeting held on 31-3-1982.

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

The Committee met on 10-4-1981 for scrutinizing the essays on "ગુજરાતમાં મહાજનોનો ક્રોધો : ૧૬ મીથી ૧૯મી સદીના સમયગાળામાં" for the year 1978-79. The prize was not awarded as the entry received was not found upto the required standards expected for an award of the prestigious prize. The Committee also recommended essay subjects. "આધુનિક માનવ સંદર્ભમાં ધારક બળ તરીકે ધર્મ" for the year 1979-80 and "સામાજિક વિકાસ માટે આદોલનો અનિવાર્ય છે ?" for the year 1980-81.

## CHAPTER V—RESEARCH IN UNIVERSITY

1. During the year 117 new students were registered for the Ph.D. degree. Their Facultywise break-up is : 39—Arts; 26—Science; 8—Commerce; 17—Education and Psychology; 2—Home Science; 2—Medicine; 18—Technology and Engineering; 1—Law; 3—Fine Arts ( including Music College ) and 1—Social Work.

During the year 1981-82, the number of students actively pursuing Ph.D. Research Work in various Faculties was as under :—

Sr.No.	Faculty	Number
1.	Faculty of Arts	
2.	Faculty of Science	153
3.	Faculty of Commerce	76
4.	Faculty of Education and Psychology	23
5.	Faculty of Home Science	108
6.	Faculty of Medicine	20
7.	Faculty of Technology and Engineering	15
8.	Faculty of Law	54
9.	Faculty of Fine Arts ( including Music College )	9
10.	Faculty of Social Work	23
		6
	<b>Total</b>	<b>487</b>

### 2. Research Schemes financed by the University

Sr. No.	Name of the Teacher/s	Title of the Research Scheme
1	2	3
	<b>Faculty of Arts</b>	
1.	Mr. N. Rajaram, Lecturer in Sociology	"The Maithili Language Movement in North Bihar Sociolinguistic Investigation".
2.	Dr. Maya Shah, Reader in Economics	"An Analysis of Levels and Rates of Growth of Enrolment of Children below the age of 14 years in the States of India".
3.	Dr. (Mrs.) Ranu V. Vanikar, Reader in English	"Innovations in English Language Teaching".

1	2	3
4.	Dr. O. P. Joneja, Lecturer in English	"Fictional Strategies of Survival in Canadian, African, Indian and Carribean Novels in English".
5.	Shri R. L. Shukla, Reader in Hindi	"Myth, Archetype and Literature (with special reference to Hindi Literature).
6.	Shri Bansidhar Sharma, Lecturer in Hindi	"Punarjagaram Ke Pariprekshya Men Bharatendu Kaleien Hindi Upanyasa Sahitya".
7.	Shri Pravinchandra J. Patel, Lecturer in Sociology	"Industrial Conflict in Baroda : An analysis of some recent trends".

### Faculty of Science

8.	Dr. G. K. Menon, Lecturer in Zoology	"Histophysiological and Ultrastructural Studies on Asian Incubation Patch".
9.	Dr. A. V. Ramchandran, Reader in Zoology	"Pineal in general Metabolism and Health".
10.	(i) Smt. Vimla Rangaswamy and (ii) Shri J. P. Vyas, Lecturer in Geography	"Dadiapada Taluka-A Study Tribal Area".
11.	(i) Prof. (Dr.) R. N. P. Sinha (ii) Dr. C. M. Gupta (iii) Dr. J. K. Parmar, Lecturers in Geography	"Diagnostic Survey for Integrated Planning of Sinor Taluka (Dist. BARODA)".
12.	(i) Professor S. S. Merh and (ii) Dr N. M. Vashi, Reader in Geology	"Geologic and Geomorphic Evaluation of the terraed plains of Pokhera Valley in Nepal".
13.	Miss Zaynabsultana Ahmed, Lecturer in Geography	"Impact of time on Tandalja".

### Faculty of Education and Psychology

14.	Dr. (Miss) J. A. Christian, Lecturer in Education and Psychology	"A Study of the Pupils Psychic and Group Processes, Leadership Behaviour and Managing their potentials in classroom.
15.	(i) Dr. (Mrs.) Sneha M. Joshi and (ii) Shri Satenderkumar, Lecturer in Education	"Effect of skill-based approach decision-making abilities on the development of teaching competence".

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|---|---|---|
| 16. Professor P. K. Dongre and Dr. Darji D. R.  | A study of School Renewal with respect to Organizational Health.  |   |
| <b>Faculty of Commerce</b>  |   |   |
| 17. Dr. C. S. Rathod, Professor and Head, Department of Co-operation  | "Co-operative Administration in Gujarat."   |   |
| <b>Faculty of Medicine</b>  |   |   |
| 18. ( i ) Dr. S. S. Akolekar, Assistant Professor and<br>( ii ) Dr. H. C. Srivastav, Professor of Anatomy   | "Cytogenetic Studies on infertility".   |   |
| 19. Dr. C. A. Desai, Professor and Head, Department of Physiology   | "Serial Study of Pulmonary functions in normal pregnancy with Respiratory Diseases".  |   |
| 20. Mrs. Sheela R. Brahmabhatt, Asstt. Professor in Physiology  | "Lipid and Enzyme Profile in Patients of Acute Myocardial Infection".   |   |
| <b>Faculty of Home Science</b>  |   |   |
| 21. Dr. Jyoti K. Parikh, Lecturer in Child Development  | "Parent Education Programme for the Parents of Mentally retarded Children".   |   |
| 22. Mrs. Aruna P. Dave, Lecturer in Child Development   | "Development of Curriculum in Social Studies for Young Children".   |   |
| 23. Dr. ( Mrs. ) Kalpana Paralikar, Lecturer in Home Science  | "Concepts regarding Home Science as held by employed Home Scientists and their employees as well as students of Home Science and their parents".  |   |
| 24. ( i ) Miss Urmila R. Patel,<br>( ii ) Mrs. Asha Patel and<br>( iii ) Dr. S. Gujral, Lecturers in Foods and Nutrition Department                     | "Formation of Low Cost Ready to eat recipes for Pre-School Children".   |   |
| 25. ( i ) Dr. ( Mrs. ) Anupama J. Shah, Lecturer, and<br>( ii ) Mrs. Malini Patel, Teaching Assistant, Home Science, Education and Extension Department | "A Study of needs and requirements regarding space, equipments, furniture and reference Material in the area of Home Science to prepare guide lines for the beginning Home Science Institutions". |   |

**The M. K. Amin Arts and Science College and College of Commerce, Padra**

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|---|---|---|
| 26. Dr. Bhagwandas N. Kahar, Lecturer in Hindi  | "Swatantryottar Hindi Kahaniyan Men Vyang: Swarup Aur Dishaen".   |   |
| <b>Faculty of Technology and Engineering</b>  |   |   |
| 27. ( i ) Dr. S. K. Damle, Professor and Head, Department of Applied Mechanics<br><br>( ii ) Dr. V. S. Thattey, Professor of Applied Mechanics Department | "Flexural Rigidity of Reinforced Concrete Ring Girders".  |   |
| 28. Dr. Subhashchandra Patodi, Reader in Applied Mechanics  | "Development of discrete energy method for post bucking analysis".  |   |
| 29. Shri M. C. Gandhi, Lecturer in Applied Mechanics  | "Shear Behaviour of faulted Rock under Static Loading".   |   |
| 30. Dr. T. R. Joshi, Reader in Applied Physics  | "Thermoluminescence and its application in Radiation Dosimetry".  |   |
| 31. Dr. J. M. Lohar, Reader in Chemistry, Applied Chemical Department   | "Exploration of the Utility possibility of some binary Mesomorphic and Non-Mesomorphic Systems and some Homologous series of Mesogens." |   |
| 32. Shri S. T. Bhatt, Lecturer in Applied Chemistry   | "Studies in Viscosity Index improvers and flow improvers".  |   |
| 33. Shri B. C. Chauhan, Lecturer in Applied Chemistry   | "Studies in the Synthesis of New Mesogens and their characteristics as such and in Mixed conditions".                                   |   |
| 34. Shri M. T. Chhangawala, Lecturer in Applied Chemistry   | "Synthesis of New Thermotropic liquid crystals and to investigate their liquid individually and in binary systems".                     |   |
| 35. Shri Sanjay Kumar Dutta, Lecturer in Metallurgical Engineering  | "Simultaneous Reduction of Iron Ore by Solid Carbon and Hydrogen gas".  |   |

1	2	3
36. Shri N. S. Sundermurti, Reader in Metallurgical Engg.	"Electro-Chemical Chromite".	Reduction of
37. Shri S. M. Khanna, Lecturer in Pharmacy	"Analysis of Some Corticosteroids".	
38. Mrs. Rajani Girdhar, Lecturer in Pharma Chemistry	"Analysis of some Medicine Plants".	
39. Dr. N. K. Jain, Reader in Pharmacy	"A Pharmaceutical Study of Solid Dispersions".	
40. Dr. (Mrs.) Gayatri Benerjee, Lecturer in Pharmacy Engineering, Baroda	"Foliar Venation and Phytochemical Studies on certain contraceptive plants used by the aborigins of Gujarat".	
41. Dr. S. B. Pandya, Professor in Chemical Engg.	"Heat transfer and Flow behaviour in Polymer Systems".	
42. ( i ) Shri Vasdev Singh, Reader in Chemical Engg. and	"Studies in Pipe Line flow of Solid-liquid mixtures (Hydrotransport of Coal lignite etc.)".	
( ii ) Dr. A. N. Roy, G.S.F.C., Visiting Professor, Faculty of Technology and Engineering		
43. Shri K. Ethirajula, Reader in Chemical Engg.	"Studies on Extraction of aromatics with mixed solvents".	
44. Professor Piyush V. Parikh, Professor of Applied Mechanics	"Floods, Cyclones and Earthquakes".	
45. Shri K. R. Biyani, Lecturer in Applied Mechanics	"Failure Mechanism of Rocks".	
46. Shri A. K. Shah, Lecturer in Applied Mechanics	"Vibrating Wire Visavis Resistance, type instruments for Geotechnical Structures".	

1	2	3
47. Dr. A. V. Shroff, Reader in Applied Mechanics	"Rheological aspects of Fine and Course Grant Mixes".	
48. Dr. S. K. Agrawal, Reader in Metallurgical Engg.	"Effect of New additives on Foundry moulding sands".	
49. ( i ) Dr. C. M. Patel and ( ii ) Dr. S. R. Agrawal, Reader in Applied Mathe- matics	"Convergence of Sannabilits and approximation problems of General Orthogonel Series".	
50. Dr. R. A. Vora, Reader in Applied Chemistry	"Liquid Crystalline Polymers".	
51. Shri Y. K. Agrawal, Reader in Analytical Chemistry	"Studies on Hydroxamic Acids and Metal Complexes".	

#### Polytechnic Colloge

52. Shri A. G. Telpande, Head, Department of Petrochemicals	"Oxidation of Petroleum fractions".
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#### Faculty of Social Work

53. Dr. H M. Rajyaguru, Lecturer	"A Study of the Institutionalized disabled Children".
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#### 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 (s) of Government of Gujarat, Planning Commission and other Agencies like ICAR, CSIR, ICSSR, ICHR, ICMR, PL-480, DST etc. :

Sr. No.	Name of the Teacher/s	Title	Name of Financing Agency	Remarks regarding Progress
1	2	3	4	5
<b>Geography Department</b>				
1.	Prof. V. A. Janaki, Retired Professor, Under U.G.C. Retired Teachers' Scheme	Principles of Economic Geography	U.G.C.	Work is in Progress.
2.	Smt. V. C. Rangaswamy and Shri J. P. Vyas, Both Lecturer in Geography	Devipada Taluka A Study of a Tribal Area (Scheme financed by U.G.C. Rs. 1,500-00 sanctioned under Cont. Grant)	U.G.C.	Work is in Progress.
3.	Dr. (Smt.) Jaysree De and Shri R. S. Gollerkeri, Both Lecturer in Geography	Spatial and Temporal Distribution of Diseases in Baroda; A study in Medical Geography. (Rs. 5,000-00 is financing under Contingency and Salary of Junior Research Fellow for 1 year)	U.G.C.	Work is in Progress.
<b>Hindi Department</b>				
4.	Dr. P. K. Desai	The Study of Hindi Novels written in 8th Decade	U.G.C.	Work is in Progress.
5.	Dr. B. N. Kahar	Sahiri in short Hindi stories after Independence	U.G.C.	Work is in Progress.
<b>Agricultural Economics Department</b>				
6.	Dr. M. B. Desai and S. K. Verma	Research project on 'Urbanisation, Industrialization and change in Agriculture and Rural Life'	United States, Department of Agriculture, Washington (PL-480 Rupee Counter part fund from the American Embassy, New Delhi)	Data collection is nearing completion.

1	2	3	4	5
<b>Economics Department</b>				
7.	Prof. S. R. Hashim and Prof. M. M. Dadi	Economic Linkages and spread Effects of Small-Scale Industries	ICSSR Under Indo-Dutch Programme	Progress continuing.
<b>History Department</b>				
8.	Prof. V. K. Chavda	(a) 19th Century Culture in Gujarat (b) A cross regional study	I.C.H.R. New Delhi I.C.H.R. New Delhi	The work continues. The work continues.
9.	Dr. G. D. Sharma	Agrarian Relations and Economy of Western India during the 18th century with special reference to Jalor and Sanchor of Marwar and Broach and Ankleshwar of South Gujarat	U.G.C. Minor Project Scheme	The work is completed. The final report is in preparation.
10.	Dr. K. S. Methew	Portuguese trade with India 1530-1600	U.G.C. Minor Project Scheme U.G.C.	The study is almost completed. Work in Progress
11.	Dr. (Mrs.) Geeta Bajpai	Economic Development in the Select Districts of British Gujarat of Broach and Surat, 1881-1909	I.C.H.R.	Work is in Progress.
<b>Political Science Department</b>				
13.	Dr. V. G. Nandedkar	Agricultural Administration in District Panchayats	U.G.C.	Field work for data in collection is in progress.
<b>Sociology Department</b>				
14.	Mr. P. J. Patel	Trade Union Activities: A Study of working class Leaders Conducted a Socio-Economic Survey of 185 Potters-families from 10 villages/towns of Padra, Chhota-Udepur, Tilakwada and Baroda Talukas of Baroda District	I.C.S.S.R. Prajaapati Bandhu Samaj	Field work in progress. Completed.

## Faculty of Science

## Department of Geography

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|---|--|--------|----------------------|
| 1. Dr. (Mrs.) M. A. Padhya,<br>(Principal Investigator)                                   | Clonal Propagation of tree ferns through Tissue Culture techniques     | U.G.C. | Work is in progress. |
| 2. Prof. V. A. Janaki,<br>Retired Professor,<br>Under U.G.C. Retired<br>Teachers' Scheme. | Principles of Economic Geography                                       | U.G.C. | Work is in progress. |
| 3. Smt. V. C. Rangswamy and<br>Shri J. P. Vyas,<br>Lecturers                              | Dediapada Taluka: A Study of a Tribal Area (Scheme financed by U.G.C.) | U.G.C. | Work is in progress. |

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|---|---|--------|----------------------|
| 4. Dr. (Smt.) Jayshree De. and<br>Shri R. S. Gollerkeri,<br>Lecturers | Spatial and Temporal Distribution of Diseases in Baroda: A Study in Medical | U.G.C. | Work is in progress. |
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## Department of Chemistry

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|-----------------------------|---|----------|----------------------|
| 5. Prof. P. K. Bhattacharya | Charge transfer interaction in mixed ligand complexes | C.S.I.R. | Work is in progress. |
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## Department of Geology

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|---------------------|---|---------------------------------|--|
| 6. Prof. S. S. Merh | ( i ) Geological investigation of the Quaternary terrains of Gujarat with special reference to their Geomorphology and Geochronology. | U.G.C.                          | Work is in the final stages of completion. |
|                     | ( ii ) Geoenvironmental controls of Industrial Pollution around Baroda  | Dept. of Science and Technology | Work is in its final stages of completion. |

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|--|---|--|----------------------|
| 7. Dr. D. R. Gadekar                       | ( i ) Analysis of Satellite imagery of Gujarat with special reference to Sedimentology, Geomorphology and Hydrology   | I.S.R.O. Govt. of India                | Work is in progress. |
|  | ( ii ) Textural characteristics of new recent Geolian littoral and fluvial sediments in Gujarat and their utility in reconstruction of Quaternary depositional environments | U.G.C.                                 | Work is in progress. |
| 8. Prof. S. S. Merh and<br>Dr. N. M. Vashi | Grant-in-aid Project on Regional Terrain Evaluation of the Cost line between Okhmadhi (Gujarat) and Ratnagiri (Maharashtra)   | Ministry of Defence                    | Work is in progress. |
| 9. Dr. A. N. Shah and<br>Dr. R. V. Karanth | Studies on the base metal mineralisation in the Champaner Group around Jhari and Khandia, Central Gujarat   | U.G.C.                                 | Work is in progress. |
| Department of Microbiology                 |   |  |                      |
| 10. Prof. V. V. Modi                       | ( i ) Biological Nitrogen Fixation Scheme   | I.C.A.R.                               | Work is in progress. |
|  | ( ii ) Studies on Post-Harvest Physiology of Mangoes with special emphasis on Hormonal control of ripening and preservation   | D.S.T. Dept. of Science and Technology | Work is in progress. |
|  | ( iii ) Sewage Sludge Hygienization with Radiation Micro-biological Aspects   | Dept. of Atomic Energy                 | Work is in progress. |
|  | ( iv ) Studies to enhance by Rhizobium species  | B.N.F., D.S.T.                         | Work is in progress. |

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(v) Uncovering of Regulatory Mechanism controlling nodulation and N <sub>2</sub> fixation	I.N.S.A.	U.G.C.	Work is in progress	
<b>Department of Zoology</b>				
11. Prof. R. V. Shah, Head, Department of Zoology	U.G.C.	U.G.C.	Work is in progress.	
<b>Faculty of Technology and Engineering</b>				
<b>I. Civil Engineering Department</b>				
1. Shri M. M. Godke	U.G.C.	U.G.C.	1st stage report completed.	
<b>II. Metallurgical Engineering Department</b>				
2. Prof. V. L. Gadgeel and Shri S. K. Agrawal	Indian Aluminium Co. Ltd., Calcutta	Indian Aluminium Co. Ltd., Calcutta		
3. Prof. V. L. Gadgeel	Gujarat Electricity Board, Baroda	Gujarat Electricity Board, Baroda		
<b>III. Pharmacy Department</b>				
4. Dr. K. K. Rao	C.S.I.R.	C.S.I.R.	Work is in progress	
<b>(i) Studies on the degradation of Cellulosic and lignocellulosic substrates by Fungi</b>				
<b>IV. Applied Chemistry Department</b>				
5. Dr. J. M. Lohar	D.A.E.	D.A.E.	Work is in progress.	
<b>(ii) Recycling of crop residues and agricultural callulosic wastes to fermentable sugars by Fungal Cellulases</b>				
6. Dr. A. V. Shroff	I.C.S.S.R.	I.C.S.S.R.	Work nearing completion.	
<b>Applied Mechanics Department</b>				
1. Prof. Amita Verma and Dr. T. S. Saraswathi	I.C.S.S.R.	I.C.S.S.R.	Work nearing completion.	
2. Prof. Amita Verma Dr. Veena Mistry Ms. Kiran Parekh Ms. Yogini Pathak and Mrs. Aruna Dave	B.M.C.	B.M.C.	Long term ongoing project.	
3. Dr. T. S. Saraswathi	I.C.S.S.R.	I.C.S.S.R.	Work nearing completion	

4. Dr. Veena Mistry and Mrs. Purna Mohite Learning Disabilities in Early Year I.D.R.C. Canada Work is in progress.
5. (i) Miss Kiran Parekh and Mrs. Nirmala Misra (i) To study the social and cognitive abilities of preschool children in multi-age group U.G.C. Work nearing completion.
- (ii) Miss Kiran Parekh (Research Guide) (ii) Developing a Module of Inservice training programme for Teachers of Young Children B.M.C. Completed
6. Mrs. Parul Dave (i) Utilization of Programmes and services planned for the Tribals with special reference to infant preschoolers at Panchmahal Govt. of Gujarat Ongoing project
- (ii) A. V. aids for tribal parent education programme Govt. of Gujarat Completed
- (iii) Problems perceived by functionaries associated with tribal welfare services Govt. of Gujarat Completed
7. Dr. Yogini Pathak (i) A programme for the uplift of the rural community of Sanghama Australian Childhood Association Inc. Ongoing project
8. -Miss Indira Mallya Special Play Sessions; A Playway Method for children with special needs. I.C.S.S.R. Nearing completion.
9. Dr. Jyoti Parikh Developing, implementing and evaluating home bound programme for non-institutionalized mentally retarded children U.G.C. Work is in progress.

10. Dr. Atula Derasari A Study to determine difference if any, in the scores obtained on Bayley scales of Infant Development by substituting at different types of indigenous material U.G.C. Completed
11. Prof. Tara Gopaldas (Principal Investigator) Prof. S. Gujra Co-Investigator Foods and Nutrition " Studies on Mahuda ( Madhuca Indica) Gujarat state Forest Development Corporation Ltd. Work is in progress.
12. Prof. Tara Gopaldas Impact of Selected Health Inputs on the Mid Day Meal Beneficiary. Ford Foundation Work is in progress.
13. Prof. Tara Gopaldas (Principal Investigator) Knowledge and Practices of Young Child Nutrition among Medical Personnel I.C.M.R. Work is in progress.
14. Mrs. S. Seshadri ( Co-Investigator ) Expansion programme of the Nutrition/Health Education Scheme for the Primary School Child. N.C.E.R.T./UNICEF Work is in progress.
15. Prof. Tara Gopaldas (Principal Investigator) Mrs. K. Nanavaty, ( Co-Investigator ) Training of Special Nutrition Programme Supervisors in their job functions UNICEF Completed.
16. Mrs. J. B. Patel, (Principal Investigator) Community Contact Programme NCERT/UNICEF Completed.
17. Dr. Pallavi Mehta and Mrs. Asha Patil Studies on acceptability and shelf life of various edible oils. I.D.C. Completed.

18. Prof. S. Gujral	Effect of various levels of dietary fat and larvel dose on lipid profile of the host in Hook-worm infection	Completed.
19. Prof. S. Gujral, Mrs. U. Patel and Mrs. Asha Patil	Formulation of Receipts for young Child feeling.	Work is in progress.
<b>Faculty of Education and Psychology</b>		
1. CASE Project	National Adult Education Project (Evaluation)	Ministry of Education, Government of India
2. Prof. M. S. Yadav	Evolving Instructional Modules on the Methodology of Educational Research	U.G.C.
3. CASE Project	A Study of Education of the Deprived Community of the Slums of Baroda and the Experiment to educate them	U.G.C.
4. CASE Project	Evolving a Skill Based Programme for Teacher Preparation	U.G.C.
5. Dr. D. C. Joshi	A Study of Class-room Climate and Methods of Teaching Adopted by Indian Universities	U.G.C.
6. Shri C. N. Daftuar	Supervisor Control and Organizational Effectiveness: A Comparative Study of Public Sector Industries	U.G.C.

<b>Faculty of Medicine</b>		
<b>Physiology</b>		
1. C. A. Desai	( i ) Study of lipids enzymes and elements of myocardial infarction	Govt. of Gujarat
	( ii ) Study of trace elements and lipids in patients of Cerebrovascular diseases	
<b>Pharmacology</b>		
2. O. D. Gulati, K. G. Hemavathi and K. K. Shah	Investigation of some autonomic effects of tetraminole—a broad spectrum antihelmentic	Govt. of Gujarat
3. O. D. Gulati and K. G. Hemavathi	Investigation of the mechanism of some adverse effects of ketamine—a new parenteral general anaes thetic	Govt. of Gujarat
<b>Pathology</b>		
4. B. B. L. Mathur, Mrs. N. B. Kikani, J. C. Shah, D. D. Giri and L. K. Amin	Surgery of malignant tumors in South Gujarat ( Esp. 75 KMS. around Baroda )	Govt. of Gujarat
5. S. V. Jalihal, A. G. Desai, R. Z. Patel, P. M. Vora and V. N. Rajwade	Study of sex chromation with reference to family planning	Govt. of Gujarat

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6.	Mrs. V. Handa, R. M. Oza, R. E. Ingle Mukherjee and	Alpha Antirypsin deficiency in liver and lung disorders	Govt. of Gujarat	Work is in Progress.
7.	Mrs. S. B. Patra, Mrs. Premlatha, A. B. Arte and R. M. Amin	Evaluation of fine needle aspiration in diagnosis of tumors	Govt. of Gujarat	Work is in Progress.
8.	S. P. Pandya, S. V. Jalihal and Zanzarukiya H. Barai	Desease pattern of leprosy from skin biopsies of patients attending	Govt. of Gujarat	Work is in Progress.
<b>Biochemistry</b>				
9.	S. C. Parikh and R. V. Bhatt	A biochemical study of Blood and Viscers from the fetuses aborted (ans still birth) at different ages of gestation	Govt. of Gujarat	The stander dization for most of the methelogs have been completed.
<b>Obstetic and Gynaecology</b>				
10.	R. V. Bhatt	( i ) Phase III Comparative ivaluation of contraceptive of nonethisterene enanthate given every two-three months ( ii ) Sequelas of camp sterilization ( iii ) Institution based study of High Risk Pregnancy	I.C.M.R. I.C.M.R. I.C.M.R.	Completed registration. 200 Completed more than 103 registra- tion followup contd. Completed 1292. registration.

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1	2	3	4	5
11.	Khorana A. B.	( iv ) M.G.A. Chemical Sterilization ( v ) Clinical trial with B-Synol in I.U.B. users ( vi ) Patient's proflex for the acceptance and non-acceptance of contraceptive mthodes	I.C.M.R. I.C.M.R. I.C.M.R.	Registered 15 cases. Registration cases. Registered 1300 cases.
<b>Psychiatry</b>				
12.	Mrs. S. Khorana	Sever Mental Morbidity Survey Hindi Adaption of WASI-R verbal scale	I.C.M.R. I.C.M.R.	Phase III in Progress. Final Phase.
13.	R. B. Udwardia	Fire optic Sinescopy	Govt. of Gujarat	
<b>Anatomy</b>				
14.	H. C. Srivataya, R. V. Bhatt and Mrs. Madan	Prenatal Diagnosis Chromosomal disorder	Govt. of Gujarat	
<b>Fine Arts</b>				
1.	Shri N. K. Sant	Pictorial Illustration for visual communication in India—" A historical survey"	U.G.C.	Work is in Progress.
2.	Dr. Ratan Parimoo	Encyclopedic Index of Myths Symbols and Iconography as represented in India Painting and Sculpture—A study content and meaning		Work is in Progress.

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Dr. B. C. Parekh, V.C.

Marx's Theory of Ideology

Croom-Helm, London and Johns, Hopkins Univ. Press, U.S.A., 1981

Contemporary Political Thinkers

Martin Robertson, Oxford, and Johns Hopkins Univ. Press, U.S.A., 1982

Political Thought of Sir Isaiah Berlin

*British Journal of Political Science*, March, 1982

The Experience of Black Minorities in Britain

Open University, 1982

## 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	Subjects
1	2	3	4
<b>Faculty of Arts</b>			
<i>English Department :</i>			
(1)	Professor Lawrence Lerner	30-11-1981 1-12-1981	} Modern British Poetry
(2)	Shri R. Parthasarthy	28-12-1981	
(3)	Professor Kitty Dutta	17-2-1982	Thomas Browne
(4)	Professor W. Timothy	30-1-1982	Imperialism and Canada
(5)	Professor Patricia Morley	Jan./Feb. 1982	Canadian Literature
<i>Economics Department :</i>			
(6)	Dr. K. S. Krishnaswamy Chairman Review Committee on the National Institute of Bank Management	2-12-1981	Concept of supply Management
(7)	Professor A. L. Nagar, Professor of Economics, Delhi University	10-3-1982 and 13-3-1982	4 Lectures on Simultaneous Equations Problems
(8)	Professor R. J. Mody, Professor of Economics, Sardar Patel Institute of Economics Research, Ahmedabad	12-3-1982 and 13-3-1982	(i) Recent Developments in Monetary Theory (ii) Some Aspects of Monetary Policy (iii) Finance and Development  (iv) Flow of Funds Analysis

1	2	3	4
<b>Sanskrit Department :</b>			
(9)	Professor Dr. S. A. Dange, Professor & Head, Department of Sanskrit, University Bombay	8-2-1982	Ethno-Mythological Approach and Vedic Myths.
<b>Faculty of Education and Psychology</b>			
(1)	Professor R. S. Trivedi	23-6-1981	Is education an institutional redundancy?
(2)	Professor M. N. Palsane	17-6-1981	On stress-concepts and research possibilities.
(3)	Professor C. L. Kundu	2-7-1981	A study of the attitudinal structure of University student presidents within a social psychological frame work.
(4)	Dr. V. Natarajan	11-7-1981	Experience with testing and evaluation.
(5)	Professor R. K. Yadav	13-7-1981 and 14-7-1981	Social demands and University
(6)	Professor Malla Reddy	27-7-1981	Education for Political Socialisation Thought on educational research
(7)	Mr. Aurn Shroff	25-8-1981	T. V. as an educational medium.
(8)	Professor Bagar Mehdi	4-9-1981	Research need in creativity.
(9)	Dr. J. A. Azad	5-9-1981	Research findings from ICSSR research project
(10)	Professor B. B. Chatterjee	12-10-1981 and 13-10-1981	Comprehensive models of instruction going beyond classroom Communication, decision and systems approach in teaching learning.
(11)	Professor B. C. Parekh	2-1-1982	Exercising the imagination
(12)	Dr. N. N. Bhagia	29-1-1982	Interpersonal relationship
(13)	Professor A. S. Nair	30-1-1982 and 1-2-1982	Institutional evaluation Towards a theory of discrepant achievement
(14)	Professor Lokesh Kaul	2-2-1982, 15-2-1982 and 16-2-1982	Interdisciplinary concept. Experimental and Quasi-Experimental Design-I. Experimental and Quasi-Experimental Design-II.

1	2	3	4
<b>(B) Lectures under Extra Mural grants or other Schemes</b>			
<b>Faculty of Arts</b>			
(1)	Dr. Desmond Clerk, Professor of Archaeology, University of California, Barkeley	23-12-1982	Research work in Africa ( Pre-History of Africa )
(2)	Dr. N. R. Banerjee, Ex-Director of National Museum, New Delhi	20-12-1981	Problems concerning the Iron age in India
(3)	Professor M. J. Trivedi, Sardar Patel Institute of Social and Economics Research, Ahmedabad	14-12-1981	Contribution of James Tobin
(4)	Professor D. N. Gujarati, City University, New York	8- 2-1982	Supply side Economics
(5)	Dr. A. D. Shastri, Head, of the Department of Sanskrit, M.T.B. College, Surat	21- 1-1982	Trivendrum Plays—A Critique
<b>Faculty of Science</b>			
(1)	Dr. Prashant Bhatt, Pool Officer, Gujarat University Ahmedabad	19- 6-1981	“ Selection of steroid overproducer variants of solanum dulcamara ”
(2)	Mr. Andrew P. Nicholas, U.K.	28- 8-1981	“ Vedic Mathematics and Modern Science ”.
(3)	Professor S. P. Pandya, Deputy Director, Physical Research Laboratory, Ahmedabad	27-11-1981	“ Does God Play Dice ”
(4)	Dr. A. S. Mehta, Chief, Chemist, G.M. D.C., Ambaji	27-11-1981	“ Geochemical and Bio-Geochemical Studies ”

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(5)	Dr. M. N. Naik Agriculture Adviser, Jyoti Ltd., Baroda	12-12-1981	"Energy and Biomass"
(6)	Shri V. J. Amin, Alembic Chemical Works, Baroda	12-12-1981	(1) Scale up and (2) Aeration and agitation
(7)	Mr. P. K. Grover, Director, New Drugs Division, Sarabhai Research Centre, Baroda	4-1-1982	"Photochemical Rearrangement of 4-phenyl 3-chromanones. C."
(8)	Professor J. B. French, Professor of Physics Rochester University, U.S.A.	11-1-1982	"Information and symmetries in Com- plex systems".
(9)	Dr. H. P. S. Chawla, Multi-Chem Research Centre, Nandesari	30-1-1982	"Drugs derived from Natural Products"
(10)	Shri Gogate, Taxi- dermist	6-2-1982	"Animal Taxidermy"
(11)	Professor A Chakra- varty, Indian Associ- ation of the Culti- vation of Science, Jadhavpur	24-3-1982	"Aspects of the Chemistry and Bio- chemistry of Copper"

#### Faculty of Education and Psychology

(1)	Dr. H. S. Asthana	24-7-1981	Current Developments on the Psy- chology of Attention
(2)	Shri Shivkumar Joshi	17-8-1981	Appreciation of Drama
(3)	Dr. S. N. Singh	18-8-1981	Indian Society and Education
(4)	Dr. H. R. Joshi	17-8-1981	Emerging Role of Indian Teacher
(5)	Dr. M. N. Palsane	28-9-1981	Stressful Life Events
(6)	Professor B. B. Chatterjee	13-10-1981	Psychological study of the Bhotias of Indo-Tibetan Border
(7)	Shri Ashok Kumar Chawla	18-11-1981	Citizen's Role for a Better Metro- politan Life
(8)	Shri M. V. Prasad	27-11-1981	Public Schools in the Educational system of India

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(9)	Shri R. H. Jani	10-12-1981	A Symposium on 'Teacher as an Agent of Change in the Emerging Indian Society
(10)	Shri N. K. Shah		
(11)	Shri B. J. Desai		
(12)	Shri D. K. Desai		
(13)	Dr. K. T. Thomas	14-12-1981	Clinical Psychology in Practice
(14)	Shri Suresh K. Majmudar		
(15)	Miss Usha Patel	18-12-1981	Role of personnel Manager in Industrial Organization
(16)	Dr. S. K. Bhalla	18-12-1981	Current Research in Accidents and safety
(17)	Dr. A. B. Khorana	22-12-1981	Hypnosis-Its present day status
(18)	Professor R. S. Trivedi	25-2-1982	Equalisation of Educational Oppor- tunity and Social Justice
(19)	Shri Ramanlal Joshi	15-3-1982	Appreciation of Literature
(20)	Professor J. Shekhadiwala	24-2-1982	Symposium on 'Teaching Science or Art'
(21)	Shri V. P. Trivedi		

#### 11. Sanskrit Mahavidyalaya

(1)	Pt. Shri Shivprasad Vishnuprasad Joshi (Rajpipla)	12-1-1982	वेदाध्ययनम्
(2)	Pt. Shri Balakrishna Shastri Pathak (Baroda)	13-1-1982	श्रीमद् भागवतस्य तत्त्वज्ञानम्
(3)	Pt. Shri Vasudeo K. Pathak (Ahmedabad)	25-1-1982	सुन्दरे किं न सुन्दरम्
(4)	Pt. Shri Chandrakant K. Joshi (Baroda)	28-1-1982	व्यवहारे मुहुर्तं ज्ञान
(5)	Pt. Shri Balkrishna L. Shastri (Khambhat)	26-2-1982	रश्मिपथोमित्त्वम् मुष्ण्वाकरणं रश्मिन्

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

(1)	Shri Girish Srivastav	15-2-1982	Lecture/Demonstration on Tabla Allahabad
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(C) Lecturers delivered on the premises of the Institution by  
Lecturer invited by the Institution concerned

#### Faculty of Arts

##### Economics Department

- (1) Prof. D. T. Lakadawala, Sardar Patel Institute of Economic and Social Research, Ahmedabad 14-12-1981 Poverty and Planning

##### Department of History

- (2) Prof. A. R. Kulkarni 20-11-1981 Social and Economic conditions in the 18th Century in Maharashtra  
(3) Mrs. Wardy 11-12-1981 Women in Islam  
(4) Dr. Grewal 12-12-1981  
16-2-1982 Urbanization during Mughal times.

##### Sanskrit Department

- (1) Shri J. P. Thakar, Ag. Director, Oriental Institute, Baroda. 17-12-1981 Importance of the study of the Bhagavadgita

#### Faculty of Science

- (1) Mr. Graig E. Johnson 3-9-1981 "Selected applications of radio tele-mentray in economical studies"  
(2) Shri M. A. Rashid, Chief Conservator, of Forests, Gujarat State 12-10-1981 "Wildlife conservation in India"  
(3) Dr. P. K. Grover, Sarabhai Research Baroda 4-1-1982 Photochemical Rearrangements of 4-Phenyl 3-chromanones and on p.-3  
(4) Dr. H. P. S. Chawla, Multi-Chem. Research Centre, Baroda 30-1-1982 Drugs derived from natural products

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- (5) Mr. Krishnakant Shah, Industrial Engineer, Sarabhai Chemicals, Baroda 4-2-1982 Applications of Industrial Engineering  
(6) Dr. G. M. Oza, P.L.S. General Education Centre, M. S. University 20-2-1982 1. Why conserve wildwife.  
27-2-1982 2. World will life fund its organization and contribution.  
(7) Prof. A. Chakravarty 24-3-1982 Some aspects of the Chemistry and Bio-Chemistry of copper. Jadhavpur University Calcutta

#### Faculty of Education and Psychology

- (1) Dr. R. K. Yadav 19-2-1982 to Education  
4-3-1982  
(2) Prof. J. L. Azad 1-9-1981 to Educational Administration  
20-9-1981  
(3) Prof. M. N. Palsane 14-12-1981 to Psychology  
5-2-1982  
(4) Prof. D. N. Pestonjee 14-12-1981 Psychology (Executive Stress)

#### Faculty of Law

- (1) Dr. D. T. Jain 19-3-1982 'Philosophy of Law'  
Professor of Law 20-3-1982  
Saurashtra University

**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 *Gujarati Department*.  
T.Y.B.A. Paper VI of Linguistics is recognised  
M.A. Part I : Paper III (a) More options are given in authors  
M.A. Part II : Paper VI of Linguistics is recognised.

*Hindi Department*

- (i) Language-based courses in Compulsory Hindi were started during the period.
- (ii) One new optional was provided at T.Y.B.A. Hindi (Major) Paper V.

*History Department*

Out of five papers three papers are now optional.

*Persian Department*

**Introduction of**

- (i) Certificate Course in Modern Persian.
- (ii) Certificate Course in Modern Arabic.

*Geography Department*

- (i) Introduced the following new papers at the T.Y.B.A. (Major) and T.Y.B.Sc. (Special) during the year 1981-82. The position of the said papers is as under :

<i>T.Y.B.A. (Major) Papers</i>	<i>T.Y.B.Sc. (Special) Papers</i>	
Paper I Physical Geography	Paper I Principles of Eco. Geo- graphy.	
Paper II Economic Geography of U.S.A., U.S.S.R. and Western Europe Including Great Britain (Agriculture and Industry).	Paper II India.	
Paper III Economic Geography of China, Japan, West and South Asia East (Agriculture and Industry).	Paper III Physical Geography	

Paper IV Political Geography      Paper IV Bio-Geography.  
*Geography Department*

Paper V Geography Practical      Paper V Political Geography,  
or  
Regional Geography,  
or  
Economic Geography of U.S.A., China, Japan with Special reference to  
(i) Agriculture,  
(ii) Industry.

**Paper VI Practical Geography**

- (ii) Introduction of the following optional paper for the M.Sc. (Final) from the year 1981-82.

**Paper II Historical Geography of India.**

OR

**Rural Geography.**

**2. Number of Students**

The following number of students were enrolled in various classes during the year 1981-82. :

Class	Men	Women	Total
(1) F.Y.B.A.	237	379	616
(2) S.Y.B.A.	438	432	870
(3) T.Y.B.A.	257	279	536
<b>Total</b>	<b>932</b>	<b>1090</b>	<b>2022</b>
(4) M.A. Part I	112	113	225
(5) M.A. Part II	153	92	245
(6) Library Science	7	38	45
(7) Ph.D.	13	11	24
<b>Total</b>	<b>285</b>	<b>254</b>	<b>539</b>
(8) Post. Dip. in German	—	—	—
(9) " " " Russian	—	1	1
(10) P.G. Dip. in Ling	8	—	8
<b>Total</b>	<b>8</b>	<b>1</b>	<b>9</b>

(11) Diploma in German	45	8	53
(12) Diploma in French	—	—	—
(13) Diploma in Russian	—	1	1
<b>Total</b>	<b>45</b>	<b>9</b>	<b>54</b>
(14) Certificate Course in German	159	20	179
(15) Certificate Course in Russian	3	8	11
(16) Certificate Course in French	—	—	—
<b>Total</b>	<b>162</b>	<b>28</b>	<b>190</b>
<b>Grand Total</b>	<b>1432</b>	<b>1382</b>	<b>2814</b>

### 3. Staff

#### (a) Present Position :

During the year Staff consisted of 12 Professors, 28 Readers, 75 Lecturers, 4 Teaching Assistants, 21 Class III Staff including Technicians and 21 Class IV Employees.

#### (b) New Appointments :

- (1) Dr. Ram Mirchandani, Lecturer in Archaeology
- (2) Dr. Afzal Husain, Lecturer in History
- (3) Dr. A. J. Raval, Reader in Sanskrit
- (4) Miss C. M. Bharucha, Teaching Assistant in Sociology
- (5) Mrs. Augusta Paul, Teaching Assistant in Sociology.

#### (c) Teachers Up-graded to Higher Positions :

- (1) Dr. M. M. Dadi  
(Reader in Economics) Professor in Economics  
(Professor in I.P.C.L. Centre,  
Temporary)  
Reader in History
- (2) Mrs. Geeta Bajpai  
(Lecturer in History) Reader in Sociology
- (3) Mr. P. J. Patel  
(Lecturer in Sociology)

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

- (1) Miss Florence Alberts Lecturer in English
  - (2) Prof. S. H. Joshi Professor in Gujarati
  - (3) Shri D. D. Mahulkar Reader in Linguistics
- Resigned  
Retired  
Retired

### 4. Professional Growth of the Staff

#### (a) Published Articles/Papers :

Sr. No.	Name/s	Title	Name of the Journals wherein published with month of publication
<b>Archaeology Department</b>			
(1)	Professor R. N. Mehta	(i) Chandravati, Capital of the Parmars of Abu	Cultural contours of India Dr. Satyaprakash Faliciation Vol. Part II 1981 p. 162-164.
		(ii) Surat no Vikas Krama	Swadhaya-1981.
		(iii) Puravastu ni Najare Anhilwad Patan	Vidyapith, April, 1981. pp. 10-17.
		(iv) Baudha Puratatva	Prachya Pratibha Vol. No. 11, 1981.
		(v) Karna Vaghela Gujarat no Chhello Vaghela Maharaja-dhiraja	Patrika, August, 1981.
(2)		(vi) Itihasana Ruprang Bhoja and Vastupathā Mahatmya A Reappraisal	Purana, July, 1981, pp. 165-174.
(3)	R. N. Mehta and K. N. Momin	Copper plate Grant of Dhruvasena Baladitya from Dana, Ta. Kapadvanj, Dist.: Kheda	Journal of the Oriental Inst. Baroda, Vol. XXXI, No. 1, September, 1981.
(4)	K. T. M. Hegde	(i) Ancient Copper ore mining and smelting industries in the Aravalli Hills	Proceedings of the 21st international symposium on Archaeology. Brookhaven National Laboratory, New York, May, 1981.
		(ii) Scientific basis technology of ancient Indian copper and iron Metallurgy	Indian Journal of History of Science, Vol. 16, No. 5, November, 1981.
		(iii) Dating the buried land surface in Gujarat	Nuclear India, Vol. 20 Nos. 3 and 4 December, 1981.
		(iv) The Holocene Climate in Gujarat	Recent Research in Geology, Vol. 9 February, 1982.

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(5) B. S. Suryavanshi	Location of Lanka	The Journal of Oriental Institute, Baroda; Vol. XXXI, September, 1981, No. 1, pp. 64-78.	
(6) V. S. Parekh	(i) Gujarati Ketaklia Tripurantaka murtio	Gujarata (Guj.) Dipotsavi Vol. November, 1981.	
	(ii) Vadodarana trana Lulisha Silpo	Yugaprabha (Guj.) December, 1981.	
(7) V. H. Sonawane	(i) Krishnapradhana Dashavatarani Eka Vishishtapratima	Swadhyaya (Gujarati) Vol. 18, No. 4, August, 1981, pp. 441-44.	
	(ii) A Kshatrapa coin from Panchmahals	Numismatic Digest, Bombay, Vol. V, Part I, June, 1981, pp. 17-18	
	(iii) A Unique Dashavatara Image from Sagtala	Journal of Archaeological studies, Mysore Vol. VI, 1981, pp. 9-12.	
	(iv) Rock Paintings at Tarsang, Gujarat	Journal of the Oriental Inst. Baroda, Vol. XXXI, No. 3, March, 1982, pp. 293-300.	
(8) K. N. Momin	Loleyana—An important Archaeological site	Journal of the M. S. University of Baroda, Vol. XXIX (1980), No. 1, Baroda—(Published in May, 1981).	
(9) S. S. Srinivasan (Metrology)	Evolution of Weight and Measure and Ancient India	Proceedings of the 4th Annual Conference of the Indian Society of History of Mathematics, December, 1981.	
Shri Kuldeep Bhan (Iconography)	A Rare Sculpture of Vaikuntha with Hayagrives face	Journal of the M. S. University of Baroda, Vol. XXVIII, No. 1978-79, (published in 1982).	

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<b>English Department</b>			
(10) C. K. Seshadri	'Second Language planning for Developing Countries'	Journal of the M. S. University, Vol. XXIX No. 1.	
(11) B. N. Shah	'Theodore Roethke and the Whitman Tradition'	Journal of the M.S. University, Vol XXIV No. 1.	
(12) O. P. Joneja	(i) 'Walden its Mathematical Structure and Prose Movement'	Journal of the M. S. University, Vol. XXVII No. 1.	
	(ii) "Colonialism and the Novel"	Journal of the M. S. University, Vol. XXIX No. 1.	
	(iii) "Ruling Language Syndrome"	New Quest, March, 1982.	
(13) G. N. Devi	(i) 'Alienation as Means of Self-knowledge'	Chandrabhaga, Winter 1981.	
	(ii) 'Indian Literary Culture'	New Quest, March, 1982.	
(14) R. K. Raval	'Estimates of Childhood in Decartes and Wordsworth'—a comparative Study		
<b>Economics Department</b>			
(15) M. M. Dadi and S. R. Hashim	Long-Term Trends in Capital-Output Ratios in Indian Economy and Measurement Problems	The Journal of Income and Wealth, Vol. 4, No. 2, (Actually published during 1981-82).	
(16) M. N. Shah	Enrolment Behaviour of Children Below 14 in India	Economic Times 19th March, 1982.	
(17) R. H. Dholakia	(i) Analysis of Economic Growth in Gujarat (in Gujarati)	Madhukari Vol. VII No. 2 December, 1981.	
	(ii) Analysis of Population and Literary Data from 1981 Census (Jointly with P. M. Shah)	Vishleshana Vol. VII No. 2 June, 1981.	

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(18)	L. A. Rade	Structural Changes of Rate of Profits in Indian Manufacturing Industries.	Productivity Vol. X-XII No. April-June, 1981.
(19)	Y. O. Parikh	Baroda Slums—Education by Caste and Class.	Economic Times May, 30, 1981.
<b>Hindi Department</b>			
(20)	M. G. Gupta	Madhya Kaline Kavya Antardhara	'Sambhavana' October-November 1981 Journal of Kurukshetra University.
(21)	D. S. Shukla	(1) Patra Varnana; Sandarbh	Mangaldip Annual Number November 1981.
		(2) Kavitali : EK Paridrastrhi	Contributed in book on Tulsidas.
(22)	R. L. Shukla	Aucaitya Siddhanta Punarvichar	Parishad Patrika Patna, July, 1981.
<b>History Department</b>			
(23)	S. C. Misra	Medieval Traders and Merchants	
(24)	V. K. Chavda	19th Century Social reform in Gujarat ! A Contemporary evaluation	Proceeding of the Indian History Congress, Bombay. Session 1981 New Delhi.
(25)	S. K. Desai	Some aspects of 'Seventeenth Century Gujarat'.	Proceedings of the Indian History Congress Bombay, Session 1981, New Delhi
(26)	G. D. Sharma	Vyaparis and Mahajans in Western Rajasthan during the 18th Century.	Proceedings of the Indian History Congress, Bombay. Session 1981, New Delhi.
(27)	K. S. Mathew	Commodity Composition in the Indo-Portugueses trade in the Sixteenth Century	Proceedings of Indian History Congress, Bombay Session 1981.

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(28)	U. R. Patel	Literature and History Saraswatachandra as a Source of Social History.	Proceedings of Indian History Congress, Bombay, Session 1981.
(29)	Geeta Bajpai	(i) Growth of Baroda city in the 2nd half of the 19th Century. A study in Urban History of a select Region in Western India.	Proceedings of Indian History Congress, Bombay, Session 1981.
		(ii) A book review of British Paramountacy British Baroda Relations : 1818.	Indian Book Chronicle, New Delhi, July 1st, 1981.
<b>Linguistics Department</b>			
(30)	Bharati Modi	(i) 'Ok Mahattvani samksha	'bhasa vimars' July 1981.
		(ii) 'Ek abhigam thodu avlikan.	'bhasa vimars' October 1981.
		(iii) 'anurud : ek bhasa vagnanik drsti'.	traimaski April-June 1981.
		(iv) 'untranstability remains : because Englishness is English and Gujaratinness is Gujarati'.	Sixth International Congress applied Linguistics AILA Proceedings August, 1981.
<b>Political Science Department</b>			
(31)	A. P. Rana	"India's Foreign Policy" The Frustrated search for a Global perspective"	Democracy in Two-Nations, ed. by R. Roy (South Asian Publishers, New Delhi 1982)
(32)	Thomas Pantham	"Comments on Gandhism"	Some Reflections on Gandhism, by Raojibhai Patel (Centre for Social Studies, Surat, 1982).

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<b>Sanskrit Department</b>			
(33) S. G. Kantawala	( i ) Some Remarks on the Nachiketas legend	Ludwik Stermbach Felicitation Vol. 81.	
	( ii ) The story of the Birth of Pandavas	The Journal of Oriental Research, Silver Jubilee Vol. (Madras) Vols. XX-XX-XXXXI-1981.	
	( iii ) Bhoja and Vastrapathamahatmya--A Reappraisal (jointly with Prof. R. N. Mehta)	Purana Vols. XXIII No. 2 July, 1981.	
	( iv ) Historical survey of the works on Dramaturgy in Sanskrit	Journal of the M. S. University of Baroda Vol. XXVII ( 1978 ) No. 1, Vol. XXVIII ( 1979 ) No. 1, combined issue December, 1981.	
	( v ) Vatapattanamahavidyala (Baroda College) Syasatabdimahotsavah (In Sanskrit)	Surabharati (1981)	
	( vi ) Bhagavan Dadhic (In Gujarati)	Navabharati Dipavali Visesanka	
	( vii ) Vedic Themes by G. K. Bhatt	Journal of the Oriental Institute, Baroda, Col. XXX Nos. 3-4 June 1981.	
	( viii ) Vedic Mythological Traces by R. N. Dandekar	Journal of the Oriental Inst. Vol. XXXI No. 1, September 1981.	
	( ix ) Sexual symbolism from the Vedic Ritual by S. A. Dange	Journal of the M. S. University Vol XXIX 1980. No. 1 Humanities No. (Published in November, 1981).	

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(34) S. M. Dave	( i ) Gurulilamrtana caritradevate (In-Gujarati)		Smaranananjali—a special issue, published by Nareshwarno Committee, 1981 November.
	( ii ) Vedentapararamayanam of Vasudevananada Saraswati (Interpretation and Translation)		Nareshwarno nada November, 1981.
	( iii ) Dattatreyasvarupa		Nareshwarno nada March, 1982.
(35) U. S. Deshpande	( i ) Gurulilamrtana Ketakogito		Smarananjali, November, 1981.
	( ii ) Aurobindo on The Gita		Journal of the M. S. University of Baroda, Vol. XXIX, 1980, No. 1, published in November, 1981.
(36) J. A. Jani	( i ) Yatah Kim na milonti		Samvid August, 1981, Bombay.
	( ii ) Visṇordasamavataram		Samvid, February, 1982.

(b) *Published Books and Brochures :*

Sr. No.	Name of the Author/s	Name of the Book/s	Name of the Publisher
<b>English Department</b>			
(1)	J. Birje Patil	( i ) Kanthapura from an African Perspective in Commonwealth Literature	Macmillan, 1981.
		( ii ) Article on Lawrence Durrell in Festschrift for Professor Shepherd	Macmillan, 1981.
<b>Economics Department</b>			
(2)	M. N. Shah	Economic Factors Explaining Variations in Literacy Rates in Rural Areas: A Case Study of Gujarat	The M. S. University Economics Series No. 7

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<b>Gujarati Department</b>			
(3)	H. M. Trivedi	Professor Balvantrai Thakore Ni Kavita	Department of Gujarati, M. S. University, March 1982
<b>Hindi Department</b>			
(4)	M. G. Gupta	(i) 'Tulsidas-Parivesh our Pradeya'	Seta Prakashan, Zansh
(5)	R. L. Shukla	(ii) 'Bharatiya-Kavya Samiksha men Auchitya Siddhanta	Mac-millon India, Ltd. New Delhi.
(6)	R. D. Pathak	(iii) Shri Aurobindo in Gujarat (Edited)	Shri Aurobindo Society, Baroda.
(7)	P. K. Desai	(iv) Kabira Khada Bazar Men	Rama Prakashan, Baroda.
<b>Linguistics Department</b>			
(8)	D. D. Mahulkar	'Pratis' akhya traditions and modern linguistics	M. S. University.
<b>Persian Department</b>			
(9)	M. H. Siddiqui	'Bagiyat-i-Nisar Etawi	M. S. University Press.
<b>Sanskrit Department</b>			
(10)	A. J. Raval, Editor and Translator	Kavyadarsa of Dandin	Parsva Prakashan, Ahmedabad.
(11)	S. M. Dave, Chief Editor and Publisher	(i) Smarananjali—A special issue of studied articles on Gurulilamrta	Nareshwar, November, 1981.
(c) Papers presented at All India Level Seminars/Conference etc. :			
Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the paper presented
<b>Archaeology Department</b>			
(1)	R. N. Mehta	(i) All India Museums Conference, M. S. University of Baroda, 26-30 December, 1981	Cultural Environment last 1000 years.
		(ii) 11th Gujarat Itihas parishad, Surat, November, 1981	History of Surat District.

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(2)	K. T. M. Hegde	(i) All India Museum Conference, M. S. University of Baroda 26-30 December, 1981	Environment of Early Men in Western India.
(3)	V. S. Parekh	(i) Vth Annual Conference of Indian History and Culture Society, Madras, 12-14, February, 1982	Soem Dakshinamurti Sculpture from Gujarat
		(ii) XIth Gujarat Itihas Parishad, Surat, November, 1981	Gujaratni Sivni Dakshana murtiyo and Anugramurtio (A Silver Medal was awarded for this paper)
(4)	V. H. Sonawane	Seminar on hundred years of covery of Rock paintings in Bhopal, December 1981	An important evidence to date Rock paintings of Mesolithic period.
<b>English Department</b>			
(5)	O. P. Joneja	(i) 'Fictional Strategies for Colonial Consciousness'	UGC Seminar, Mysore, September 1981.
		(ii) All Indian English Teachers' Conference, Vallabh Vidyanagar, December 1981	'Domesticated English in African and Indian Fiction'.
(6)	B. N. Shah	(i) Vallabh Vidyanagar : All India English Teachers' Conference, December 1981	Roethke and Sylvia Plath the question of their poetic relationship.
		(ii) Varanasi Indian Association of American Studies, April 1982	Teeodore-Roethke as a love poet.
(7)	C. K. Seshadri	Seminar on Innovations in ELT. Hyderabad (CIEFL), 6-10 April, 1981	'A Pragmatic Approach to Teaching of English in India'.
(8)	G. N. Devi	U.G.C. Seminar, Mysore, September 1981	"Colonial Experience and Indian Critical Tradition."

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(9) M. F. Salat	ALETC, SPU, Vallabh Vidyanagar, December 1981		"Influence" of Gujarati Orthographic patterns on the spoken English of Gujarati Speakers".
(10) R. K. Raval	AIETC, SPU, December, 1981		'The Treatment of Venice in Shelley and Turner. A Burkean Assessment'.
	<b>Economics Department</b>		
(11) M. M. Dadi	(i) 13th Gujarati Economics Conference, Gandhidham, Adipur, 31st October, 1981 to November 1981		"Planning for Minimum Needs in Gujarat".
	(ii) Seminar on Tribal Research in Gujarat, Gujarat Vidyapeeth, Ahmedabad, 23-24, September, 1981		"Relative Backwardness of Scheduled Tribes in Vadodara District".
(12) M. N. Shah	18th International Summer Seminar, German Democratic Republic, June 21 to July 5, 1981		"Economic Growth & Human Capital—An Indian Experience".
(13) R. H. Dholakia	(i) National Seminar on Planning for Regional Development, 14th-16th March, 1982, Department of Economics, Saurashtra University, Rajkot.		"Issue in Micro-Level Planning" (Jointly with S. Iyengar)
	(ii) Bi-Annual Conference of Indian Association for Research in National Income & Wealth, Bhubaneshwar, January 1982		"Comparison of Regional Incomes and International Variations in Purchasing Power of Rupee".
	(iii) 13th Gujarat Economic Conference, 31st October, 1981 and 1st November, 1981, Gandhidam—Adipur		"Recent Developments in the Theory of Consumer's Demand".
	(iv) Seminar on Development of Gujarat Economy, : Sardar Patel Institute of Economic Research, Ahmedabad, August 1981		"Analysis of Economic Growth in Gujarat".

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(14) L. A. Rede	13th Gujarat Economic Conference, 31st October 1981 1st November 1981, Gandhidham-Adipur		"Rates of Profits in Indian Manufacturing Industries : 1950-51 to 1977-78".
(15) Y. O. Parikh	(i) 13th Gujarat Economic Conference, 31st October, 1981 and 1st November, 1981, Gandhidham-Adipur		"Universalization of Elementary Education—A Case Study of Slum Dwellers of Baroda."
	(ii) Seminar on Tribal Research in Gujarat; Gujarat Vidyapeeth, Ahmedabad, 23rd and 24th September, 1981		"Poverty, Work Participation and Educational Level of Scheduled Tribes in Vadodara Slums".
	(iii) Seminar on Urban Poor, Gandhinagar 5th and 6th January 1982		"Incidence of Poverty: A Study of Slum Dwellers of Baroda City".
	(iv) Western Regional Seminar on Educational Problems of the Scheduled Caste, Bombay, 19th and 20th March, 1982		"Education and Incidence of Poverty among Scheduled Castes."
(16) A. J. Merh	(i) 7th Input-Output Association Conference, Bombay, 4th to 6th September, 1981		"Factors Affecting Fuel Input Coefficient in Indian Railways."
	(ii) National Symposium on Transportation Development System Studies and Policy, I.I.T., New Delhi, 4th to 6th December, 1981		"Comparative Cost Evaluation of Difference Modes of Tract-ion—A Case Study of Railway."
(17) C. M. Gupta	Symposium on "Geography and Rural Development" organised by the Department of Geography, M. S. University of Baroda, from 21st December to 24th December 1981		Landuse Study for Rural Development—A Case Study of Navi Jithardi Village of Karjan Taluka.

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(18) V. C. Rangaswamy	I.G.U. Internal Symposium on "Energy Resources, Environment and Habitat Transformation in the Developing Countries" organised by the Department of Geography, Meerut University, Meerut, from 16th March 1982 to 20th March 1982	Use of Gobar as Manure and Energy.	
(19) S. M. H. Razvi	I.G.U. Internal Symposium on "Energy Resources, Environment and Habitat Transformation in the Developing Countries" organised by the Department of Geography, Meerut University Meerut from 16th March 1982 to 20th March 1982	A Case Study of Village over a decade.	
(20) S. M. Razvi and D. A. Bhatt (Ph.D. student)	Symposium in "Geography" & Rural Development" organised by the Department of Geography, M. S. University of Baroda from 21st March-24th December 1981	Impact of Hybrid Cotton seeds on the Landuse and Cropping Pattern of Amod Taluka : A Case Study of the selected villages.	
(21) Jayshree De.	International Conference on "Urban and Regional Change in Developing Countries" at IIT Kharagpur from 12th December to 15th December 1981	Changing Trends in Industrial Activities of India.	
<b>Hindi Department</b>			
(22) M. G. Gupta	Seminar of Premchand organised by Kamiversity at V.S.S.D. College P.G. Centre Kanpur on 8th July, 1981	Premchand Ke Samajik Jagrukta.	
<b>History Department</b>			
(23) S. C. Misra	( i ) Indian History Congress, Bodhgaya, December, 1981	General Presidential address.	

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	( ii )	Seminar on Business Communities of India: A Historical perspective, I. I.M. 4-7, March, 1982	Medieval Traders and Merchants.
(24) V. K. Chavda	( i )	Indian History Congress, Bodh Gaya, December, 1981	Social and Economic implications of Col. Walker's Settlement in Gujarat.
	( ii )	U.G.C. Sponsored Seminar on British policies in relation with the princely States of India, with special reference to Rajasthan and its neighbours, Jodhpur University, Jodhpur, December 6-8-1981	Minor Hinds by Raja Sir T. Madhav Rao. An aspect of Minority Administration in Baroda State in Colonial context.
(25) S. K. Desai		Indian History Congress Bodhgaya, December, 1981	Reform movement in the 19th Century Gujarat. The role of Narmad.
(26) G. D. Sharma	( i )	U.G.C. Sponsored Seminar on " British policy in relations with the Princely States of India with special reference to Rajasthan and its neighbours", Jodhpur University, December, 6-8-1981	Some aspects of the British Policy towards the chieftains of Kathiawad in the beginning of the 19th Century.
	( ii )	Indian History Congress, Bodhgaya, December, 1981	Land revenue and the Early British experiments in South Gujarat during the 2nd half of the 19th century.

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	(iii)	Seminar on "Business Communities of India A Historical perspective I. I. M. Ahmedabad-4-7, March, 1982	"The Marwaris Economic foundations on Indian Capitalist Class".
(27) K. S. Mathew	(i)	Indian History Congress, Bodhgaya, December, 1981	"Indo-Portuguese Trade and the Italian merchant Financiers in the sixteenth century."
	(ii)	Seminar, University of Poona, February, 1981	Luso-Maratha Relations prior to the Treaty of 1670.
	(iii)	Xavier Centre of Historical Research, Panjim-Goa. Workshop on Goan Historiography, March, 1982	German and Italian sources for the History of Goa.
(28) Geeta Bajpai	(i)	Indian History Congress, Bodhgaya, December, 1981	The adaption of Social Action to an Economic Orientation: A Case Study of the Waghers of Okhamandal.
	(ii)	U.G.C. sponsored Seminar on British Policies in relation with the Princely States of India with special reference to Rajasthan and its neighbours, Jodhpur University, December, 6th-8th 1981	Colonial Trade and the Princely State of Baroda. A Study of some aspects of British Imperialism during the years 1860-1884.
(29) Ravindra Kumar	(i)	A Regional colloquium on 'Ibn Sina' M. S. University Baroda, August, 8-9-1981	Principles of Natural Philosophy "Ibn Sina on Form and Matter".
	(ii)	Indian History Congress, Bodhgaya, December, 1981	The Mansagar Dam of Akbari, A Study in its Structure and use.

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(30) G. A. Pandor		Indian History Congress, Bodhgaya, December, 1981	"Post-independence Hindu-Muslim Relations in a Village in South Gujarat Some observations.
(31) Usha Devi M. and Mrunal K. Nath (Joint authorship)		IIIrd Regional Seminar on Indian Languages as media of instruction at higher Education Hyderabad, March, 4-5-1982	"Gujarati as a medium of higher education an analysis."
<b>Persian Department</b>			
(32) A. A. Siddiqui		"Persian Literature Produced in Gujarat" Deptt. of Persian, Arabic-Urdu Seminar 27-29 November 1981	"PIR Mohammad Shah".
<b>Philosophy Department</b>			
(33) S. H. Divatia		Seminar of the Indian Philosophical Congress 1981-82	The concept of Matter and Cause in Recent Philosophers.
<b>Political Science</b>			
(34) V. G. Nandedkar		41st Indian Political Science Conference, Ranchi, October 12-14 1981	"Pressure Groups and Municipal Decision making."
(35) H. C. Shukul		41st Indian Political Science Conference, Ranchi, October 12-14, 1981	"Indian Ocean : Politics of Conferentation and Co-operation".
<b>Sanskrit Department</b>			
(36) S. G. Kantawala	(i)	Seminar organised by the Kuppuswami Sastri Research Institute, Kuppuswami Sastri Birth Centenary Celebrations, Madras, 19, 20, 21 June 1981	Rgveda I : 54.6 A Study in Sectarian Interpretation.
	(ii)	Seminar on Indo-Persian Literature of Gujarat, Persian Department, M. S. University, Baroda, 27-28-29 November 1981	Some Puranic Records in Indo-Iranian Languages and Literature.

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		(iii) The Fifth World Sanskrit Conference Varanasi, 21-26 October, 1981	Satyanarayanavrtokatha and Upabramhana
(37) U. S. Deshpande		The Fifth World Sanskrit Conference, Varanasi, October, 21-26, 1981	Smrti in the Brahmasutra.
(38) P. J. Patel		<b>Sociology Department</b> Seminar on "Problems & Prospects of Potters".	"Social Educational & Economic Backwardness of Potters in Baroda District Baroda, 21-2-1982".
(39) B. S. Desai		8th Conference and All India Seminar organized by Ethnographic and Folk Culture Society, Lucknow, December, 28-30, 1981	"Artisan Kumbharia Suthar of Vesma (South Gujarat) A Study in Occupational Change".
(40) P. S. Choondawat		Seminar on 'Effective Implementation of P.C.R. Act 1955 and Removal of Untouchability' at Department of Sociology, South Gujarat University, Surat, 4-5-October, 1981	"Untouchability and Untouchables Youth : A Study in Urban Context" Also worked as Rapporteur in Session IV "Constructive Suggestions for effective implementation of the programme for removal of untouchability".
(d) Talks given at different Universities/Institutions :—			
Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecturers
		<b>Archaeology Department</b>	
(1) R. N. Mehta		(i) Gujarat Itihas Parishad Ahmedabad August, 1981	The History of Ahmedabad City.
		(ii) Bombay Museum Association September, 1981	Town planning of Champaner.

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		(iii) Banaras Hindu University, Banaras, December, 1981	Urban Archaeology Theory of Practise.
		(iv) South Asia Institute Maxmullar Bhavan, Delhi, February, 1982	Western India and the Western World.
(2) K. T. M. Hegde	(i)	The University of Pennsylvania Philadelphia 27 April, 1981	Ancient Indian Copper Metallurgy.
	(ii)	The University of California, Los-Angeles. May 4, 1981 to May 5, 1981	Ancient Indian Copper 1. Metallurgy. 2. Ancient Indian iron Metallurgy.
	(iii)	The University of Arizona, Tucaon 6 May, 1981 and 7 May, 1981	(i) Geologic and Climatic contributions to the development of Great Indian Desert.
			(ii) Paleo-environments of man in the Great Indian Desert.
	(iv)	The University of California, Berkeley 11 May, 1981	Geologic and Climate History of the Great Indian Desert.
	(v)	Harvard University Cambridge, Massacusetts, 15 May, 1981	Paleo environments of Man as determined from a study of the Alluvial and Aeolian stratigraphy in Western India.
	(vi)	The School of Archaeology, Archaeological Survey of India, New Delhi. 12, 13, 14 and 15 August, 1981	Environmental Archaeology and Ancient Indian Ceramic Technology.

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(vii) Kurukshetra University Kurukshetra 2 to 17 December, 1981	Delivered a series of 14 lectures on the methods of dating the past and ancient Indian metal and ceramic Technology. Engraved mesolithic core from Chandravati Rajasthan.	
(3) V. H. Sonawane	All India Seminars on pre and proto historic Archaeology Waltari December, 1981	Mesolithic settlements in central.
(4) K. N. Momin	(i) Indian pre and proto historic Archaeology Waltair December, 1981 (ii) Vth Annual Conference of Indian History and culture society Madras, 12-14 February, 1982	Route indicators of Sultanate period in Gujarat.
(5) S. S. Srinivasan	V Annual Conference of Indian History and culture society. Madras, 12-14 February, 1982	Prabhasa.. Its geo- graphical glennings- according to prabhasa mahatmya of Skanda Purana.
(6) S. N. Chowdhary	American Institute of Indian Studies, Banaras, Bombay, February, 1982	Discussion about appli- cation of computer in the study of Indian Architecture.
<b>English Department</b>		
(7) J. Birje-Patil	(i) Rajasthan University, March, 1982 (ii) University of Poona, March, 1982 (iii) CASE-MSU Bhavan's Public School, Baroda 10 March, 1982	Recent American Fiction. Semiotics and Theatre. The Seminar Method. Inaugural lecture at the English Language Teaching Seminar for School Teachers. English Language Teaching.
(8) R. N. Mehta	(i) Bhavan's Public School, Baroda 10 March, 1982 (ii) Alembic Chemicals De- cember, 1981 and Febru- ary, 1982	
(9) C. K. Seshadri		

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<b>Economic Department</b>			
(10) V. N. Kothari	(i) Department of Economics Delhi University 10th and 11th December, 1981	U.G.C. National Lectures: (i) Disguised Un- employment. (ii) Growth and Em- ployment in India.	
	(ii) Department of Eco- nomics, South Gujarat University, Surat 16th and 17th December, 1981	U.G.C. National Lectures: (i) Disguised Unemployment. (ii) Growth and Employment in India.	
	(iii) B. K. School of Manage- ment Gujarat University, Ahmedabad 26th December, 1981	Cost-Benefit Analysis with Reference to Rural Electrification.	
(11) R. H. Dholakia	(i) Sardar Patel Institute of Social and Eco- nomic Research, Ah- medabad, Course on District and Block Level Planning 25th and 26th June 1981 (ii) B. J. Commerce Col- lege Vallabh Vidya- nagar 11th January 1982 (iii) Sardar Patel Institute of Public Administra- tion Ahmedabad in Integrated Area Plann- ing, Government of Gujarat 27th January 1982	4 Lectures on Block Level Plans-Guide Lines, Formulation Problems, Limita- tions and Scope for Multi-Level Planning. Rationale of Govern- ment Control. 2 Lectures on : A Case Study of Jambu- ghoda Block Plan.	
(12) Y. O. Parikh	Anand, Commerce College Anand, 5th January, 1982	Some Aspects of Urban Slums,	

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(13) A. J. Merh	Railway Staff College Baroda 27th August 1981, 6th January 1982 and 30th March 1982	Economics of Trac- tion.	
	<b>Geography Department</b>		
(14) R. N. P. Sinha	Department of Geography Gujarat University, Ahmeda- bad, 5-12-1981	"Diego-Caracia".	
	<b>Gujarati Department</b>		
(15) H. M. Trivedi	પ્રેમાનંદ સાહિત્ય સભા જુલાઈ ૧૯૮૧ પ્રેમચંદ સાહિત્ય સભા તા. ૫-૮-૮૧ સરદાર પટેલ યુનિવર્સિટી, વલ્લભવિદ્યાનગર પરિસંવાદ, વલ્લભવિદ્યાનગર નવેમ્બર ૧૯૮૧ જ્યોતિવિદ્યાવય, વડોદરા માર્ચ ૧૯૮૨	(૧) જયંત પાઠકની કવિતા (૨) સાહિત્ય અને સમાજભિમુખતા (૩) સ્વાતંત્ર્યોત્તર ગુજરાતી કવિતામાં આધુનિકતા (૪) "સ્વપ્નતીર્થ" સમીક્ષા (૫) શિક્ષણનો આદર્શ	
(16) S. M. Dave	(૧) પ્રેમાનંદ સાહિત્ય સભા, વડોદરા (ii) Arts and Commerce College, Devghad-Baria December, 1981	સર્જક સમાજભિમુક્ષ નથી જુલાઈ ૮૧ કવિતાની ભાષા જુલાઈ ૮૧	
(17) L. M. Desai	(i) Arts College, Umreth, 28-9-1981 (૨) ખાલાસિનેર	'Absurd Theatre'. સ્વાતંત્ર્યોત્તર ગુજરાતી નાટક તા. ૧૩, ૧૪ માર્ચ ૧૯૮૨	
	<b>Hindi Department</b>		
(18) M. G. Gupta	Railway Staff College, Baroda	Hindi Ki Samskritik Ekta.	
(19) D. S. Shukla	Vinay Vidyalaya, Baroda	Sahitya Ka Samajik Dayitva.	
(20) R. L. Shukla	Grada College, Navsari	'Premchand' His technique of Novels.	

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	<b>History Department</b>		
(21) V. K. Chavda	Orientation Course on appre- ciation of arts and crafts for High/Higher Secondary Schools	Growth and develop- ment of Indian Cul- ture.	
	<b>Political Science Department</b>		
(22) Thomas Pantham	(i) State University New York Geneseo (ii) University of Massa- chusetts, Amherst (iii) Harvard University Faculty Club (iv) Princeton University (v) Vassar College, New York (vi) University of Poona	The Political Culture of India's under development. The Gandhian Cri- tique of Liberal Democracy. The Gandhian Cri- tique of Liberal Democracy. The Gandhian Cri- tique of Liberal Democracy. The Gandhian Cri- tique of Liberal Democracy. A Series of 4 lectures on Political Socio- logy (given as a U.G.C. Visiting Fellow).	
(23) V. G. Nandekar	University of Poona	A Series of 3 lectu- res on Local Self- Government (given as a Visiting Faculty member of U.L.P. Programme).	
	<b>Sanskrit Department</b>		
(24) S. G. Kantawala	Aryakanya Baroda	Mahavidyalaya Importance of Sanskrit (in San- skrit).	

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**Sociology Department**

(25) P. J. Patel Railway Staff College Baroda "Sociology and Labour Relations".  
14-8-1981

(e) *Participation in Inservice Programme :*

**Archaeology Department**

(1) R. N. Mehta I.A.S. Training Centre, 1981-82 Series of lectures on Indian cultures to I.A.S. Students.  
(2) K. T. M. Hegde I.A.S. Training Centre, 22 February, 1982 Indian Heritage and Archaeology.

**English Department**

(3) C. K. Seshadri Seminar on Innovations in ELT Participant.  
Hyderabad (CIEFL) 6-10 April, 1981  
(4) R. V. Vanikar Seminar on Innovations in ELT Participant.  
Hyderabad (CIEFL) 6-10 April, 1981

**History Department**

(5) Dr. G. A. Pandor Seminar on Society and Economy in Western India Department of History Participant.  
in March, 1982. Conference on Surti Sunni Garasiya (Muslim) at Vakal District (Surat) in March, 1982

**English Department**

(6) S. P. Pandya Seminar on Canadian Lit. Department of English, M.S.U. Baroda. Participant.  
18th January-4th February, 1982  
(7) O. P. Joneja Seminar on Canadian Lit. Department of English, M.S.U. Baroda. Participant.  
18th January to 4th February, 1982  
(8) G. N. Devi Seminar on Canadian Lit. Department of English, M.S.U. Baroda. Participant.  
18th January to 4th February, 1982

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(9) B. N. Shah Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982  
(10) A. Pepalla Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982  
(11) M. F. Salat Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982  
(12) J. Misra Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982  
(13) S. Puri Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982  
(14) H. A. Ismail Seminar on Canadian Lit. Department of English, M.S.U. Baroda, Participant.  
18th January to 4th February, 1982

**Economics Department**

(15) V. N. Kothari Seminar on Development of Gujarat Economy: Sardar Patel Institute of Economic Research, Ahmedabad, August, 1981 Discussant for one Session.  
(16) R. H. Dholakia Seminar on Action Research for Rural Development I.I.P.A. New Delhi, March, 15-16, 1982 Discussant for one Session.  
(17) Y. O. Parikh Seminar on Tribal Research in Gujarat, Gujarat Vidyapeeth, Ahmedabad 23rd and 24th September, 1981 Chairman of Session on Economic Aspects of Tribales.  
(18) A. J. Merh UNESCO Workshop on Systems Analysis and its application, I.I.T. Bombay, 9-12 January, 1982 Participant.

**History Department**

(19) G. A. Pandor All India Workshops on University Teaching Methods and Evaluation February, 2-6, 1982 Trainee.

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### Hindi Department

- (20) M. G. Gupta, Gujarat State Hindi Professors Participants.  
D. S. Shukla, Conference on 25th and 26th  
R. L. Shukla and December, 1981,  
P. K. Desai

### Linguistics Department

- (21) D. D. Mahulkar 9th-10th November, 1981, Poona Smt. Katre Memorial Lectures.
- (22) B. V. Modi (i) U.G.C. Summer School 10th-22nd May, 1981, Surat As expert.  
(ii) U.G.C. All India curriculum Seminar 21-24 June, Poona Presented a paper.
- (23) M. K. Nath (i) Seminar on Bengali Drama January, 1981, Calcutta Participant.  
(ii) International Seminar, July, 1981, Poona Participant.
- (24) Usha Devi M. IIIrd International Seminar on South Asian Languages. 15-17th January, 1982, Mysore Participant.

### Persian Department

- (25) A. A. Siddiqui, 'Workshop on Higher Education Teaching Methodology' CASE, Participant.  
Shamsuddin M.S.U., 2-2-1982 to 6-2-1982  
Siddiqui,  
Faizanulla  
Farooqui

### Political Science Department

- (26) A. P. Rana (i) U.G.C. Summer Inst. on Political Theory, Gandhigarh, July, 1981 Member.  
(ii) International Seminar on Regional Co-operation in South Asia, University of Hyderabad and Osmania, April, 1981

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- (27) Thomas Pantham (i) Eastern Regional Meeting of the Conference for the Study of Political Thought City University of New York, April, 16-17, 1981 Participant.  
(ii) Three Meetings of the Joint Harvard—MIT Seminar on Political Development, Spring 1981 Member.  
(iii) Eastern Regional Conference for Fulbright Scholars, Pennsylvania State University, May, 4-6 1981 Invitee.  
(iv) Annual Meeting of the American Political Science Association, New York, September, 3-6 1981 Attended.  
(v) Seminar on Organizational Participation and Public Policy, Princeton University September, 1-2, 1981 Participant.
- (28) H. C. Shukul Civics Course Improvement Programme, NCERT, New Delhi, March 27-April 4, 1982 Committee Member.

### (f) National Awards :

### Archaeology Department

- (1) Professor K. T. M. Hegde Visiting fellow under the auspices of the U.G.C. at Kurukshetra University from 2 to 17 December, 1981.

### English Department

- (1) Prof. J. Birje-Patil Visiting Professor of Comparative Literature at Brown University, in July, 1981.

### Political Science Department

- (1) Professor A. P. Rana (i) Awarded British Council Grant for Visiting the Universities of London, Canterbury and Oxford, in January, 1982.

(ii) Awarded a Senior Research Scholar Grant by the Council for International Exchange of Scholars, Washington, D.C., for research on Foreign Policy Analysis, at the University of Chicago, February-July, 1982.

(2) Dr. Thomas Pantham Awarded a Senior Research Scholar Grant by the Council for International Exchange of Scholars, Washington, D.C., for Research on Contemporary Democratic Theory, at the University of Massachusetts, Amherst, and at Princeton University, February-October, 1981.

(4) Faculty Union Activities :

(i) The Annual Day was celebrated on January, 1982, Dr. J. A. Jani wrote directed and produced 'Bhoot Bunglow' a play as Faculty Programme.

(ii) Following were the important activities carried out by the Society Students' Association: (i) "Sports Day" was celebrated on January 26, 1982, (ii) Prof. A.R. Saiyed from Jamia Lilia Islamia University, New Delhi spoke on topic "Muslims Minority in India" on March 2, 1982.

**Economics Department**

The Economic Society of the Faculty of Arts carried on its usual activities of debates, invited lectures, Social and Cultural Programme, publication of a magazine and book bank.

**5. Library**

(A)

**Archaeology Department**

Departmental Library was kept open from 11-00 a.m. to 5-00 p.m. on working days.

(i) Average numbers of students making use of the library and/or the reading room daily. 25 Students

(ii) Average number of teachers making use of the library 10 Teachers

(iii) Total numbers of books issued to students during the year. 600 Books

(iv) Total number of books issued to teachers during the year. 300 Books

**Particulars :**

(i) Books (Including back numbers of Journals as on 1-4-1981	960 (Approx.)
(ii) Books written off during the year	—
(iii) Books added during the year	15 Books
(iv) Books as on 31-3-1982	975 Books

(B)

**Sociology Department**

(a) Department of Sociology has a library consisting of 294 books (as on 31-3-1982), the books have been loaned by Smt. Hansa Mehta Library. An encyclopaedia set has been added to the reference section which consists of encyclopaedia, bibliographies etc. which are not loaned out, but referred to in the Department only. All other books are used by the Department teachers and the post-graduate students. There is a Reading Room which is open during working days, and is used by all post-graduate students. The use of the library by teachers is extensive and regular. The Post-graduate students use the library facilities continuously.

(b) Students' Gift Book Collection :

This collection has become an integral feature of the Department. It has steadily developed and caters to the needs of SYBA, TYBA, MA—Part I and II, and Ph.D. students. There are upto date 306 books and some articles, reprints and typed Xeroxed Chapter copies. Most of these have been gifted by students. Attempt is made to purchase and add copies of the Text Books and of reference books. The collection is managed by a students committee and department clerk with the help and guidance of the Teacher-Advisor. Books are issued daily for home reading.

**6. Visitors**

Sr.No.	Name	Designation	Date/s of Visit
<b>Archaeology Department</b>			
(i)	Oukchea	V.I.P. Kampuchea	2-5-1981
(ii)	Ta-De-Gavben	V.I.P., Belgium	9-5-1982
(iii)	Dr. P. R. G. Mathur	Director, Tribunal Research Inst., Kerala	20-11-1981
(iv)	F. M. Cowan	Curator, Tropical Museum, Amsterdam	27-12-1981
(v)	Grace Morely	Advisor Incom.	27-12-1981

Sr.No.	Name	Designation	Date/s of Visit
<b>Economics Department</b>			
(vi)	Dr. Ashok Mitra	Hon. Finance Minister, West Bengal Govt.	21st November, 1981
(vii)	Dr. K. S. Krishnaswamy	Former Deputy Governor of the Reserve Bank of India	2nd December, 1981
(viii)	Professor D. T. Lakadawala	Former Deputy Chairman, Planning Commission	14th December, 1981
<b>Geography Department</b>			
(ix)	Dr. Howard Hirt	Professor of Geography, Framingham State College, Framingham Centre, MASS. (USA)	25-11-1981 Deliver a lecture on Remote Sensing illustrated with colour slides.
<b>Philosophy Department</b>			
(x)	Dr. J. A. Yagnik	Head, Department of Philosophy	13-2-1982
<b>Persian Department</b>			
(xi)	Professor S. A. H. Abidi	Professor	27-29 November, 1981
(xii)	Professor Nazir Ahmad	Professor	27-29 November, 1981
(xiii)	Professor A. W. Azhar	Professor	27-29 November, 1981
(xiv)	Professor Nabi Hadi	Professor	27-29 November, 1981
(xv)	Dr. N. H. Ansari	Reader	27-29 November, 1981
(xvi)	Dr. Shoeb Azmi	Reader	27-29 November, 1981
<b>Sociology Department</b>			
(xvii)	Professor A. R. Saiyed	Head, Department of Sociology, Jamia Milia Islamia University, New Delhi	February 2, 1982

### 8. Highlights of the year

#### English Department

Seminar on Canadian Literature January 18—February 4, 1982.

#### Economics Department

- (i) Professor S. R. Hashim invited by the Government of Gujarat to join the Narmada Planning Group on its member.
- (ii) Dr. (Mrs.) M. N. Shah deputed by the U.G.C. to participate in the 18th International Summer Seminar at German Democratic Republic from 21st June, 1981 to 5th July, 1981.

#### Geography Department

Department of Geography organised a Symposium on "Geography and Rural Development" from 21st-24th December, 1981. 26 outstation delegates and 10 local participants attended this Symposium. 30 Papers were presented and read at the Symposium.

#### History Department

- (i) Professor S. C. Misra, Head of the Department presided over the 1981 Session of the Indian History Congress at Bodhagya in December 1981.
- (ii) Under the auspices of the Department two Seminars were held on
  - (1) 'Ibn Sina' 8th and 9th August, 1981.
  - (2) Social and economic conditions in the 16th, 17th, 18th, 19th, 21st, 1982.

#### Persian Department

Organised on All India Seminar on 'Indo-Persian Literature produced in Gujarat', 27-29 November, 1981 (Under the auspices of UGC).

#### Political Science Department

The Department of Sanskrit arranged the Sanskrit Kavisammelana as a part of Baroda College Centenary Celebrations on 3-3-1982.

### 9. Achievement of Alumni

#### English Department

M/s. Rita Mehrotra won the Rotary Scholarship for studies in the U.S.

#### Linguistics Department

- (i) Mr. Victor Appointed as Chief Tanzania

## CHAPTER VIII—FACULTY OF SCIENCE

## 1. Courses of Studies

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

(b) *New Courses Started:*

Post M.Sc. Diploma in Nutritional Bio-chemistry, this is a one year course after M.Sc. (Life Science, Physiology, Foods and Nutrition, Agriculture Veterinary) or M.B.B.S.

## 2. Number of Students

The number of men and women students on the roll in the various classes in the year 1981-82 was as under :

Class	Men	Women	Total
(i) Diploma in Laboratory Technique :			
1st Year	8	—	8
2nd Year	7	—	7
Total	15	—	15
(ii) F.Y. B.Sc.	449	211	660
(iii) S.Y. B.Sc.	434	201	635
(iv) T.Y. B.Sc.	301	167	468
Total	1184	579	1763
(v) M.Sc. (Previous)	187	88	275
(vi) M.Sc. (Final)	120	91	211
(vii) M.Sc. (Applied Geology)	15	—	15
(viii) Post M.Sc. in Diploma Nutritional Bio-chemistry	4	3	7
Total	326	182	508
(ix) Ph.D.	45	15	60
Grand Total	1570	776	2346

## 3. Staff

(a) The Staff of the Faculty Consisted of 18 Professors, 36 Readers, 138 Lecturers, 108 Class III and 73 Class IV employees. Due to Mass Promotion 5 posts of Class III and 5 posts of IV Class were sanctioned from 1-8-1981.

(b) *New Appointments:*

- |                                    |                       |
|------------------------------------|-----------------------|
| (1) Dr. S. N. Mishra               | Reader in Chemistry   |
| (2) Dr. (Smt.) Valsamma John Koshy | Lecturer in Chemistry |
| (3) Dr. N. N. Thaker               | Lecturer in Chemistry |
| (4) Dr. P. N. Bhatt                | Lecturer in Botany    |

(c) *Teachers Upgraded to Higher Positions:*

- |                           |                                       |
|---------------------------|---------------------------------------|
| (1) Dr. V. D. Pathak      | Reader in Applied Mathematics,        |
| (Lecturer in Mathematics) | Faculty of Technology and Engineering |
| (2) Shri R. R. Joshi      | Principal, Padra College              |
| (Lecturer in Mathematics) |                                       |

(d) *Teachers who left the University:*

- |                  |                          |          |
|------------------|--------------------------|----------|
| Smt. Illa Gandhi | Lecturer in Biochemistry | Resigned |
|------------------|--------------------------|----------|

## 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	2	3	4
<b>Botany</b>			
1.	K. S. S. Rao & S. D. Sabnis	Critical notes on the identity and occurrence of varieties of <i>Indigo-ferae Coerulea</i> Roxb. in India,	India, Geobios, News Report, 1:32-33, 1982.
2.	S. N. Patil and S. D. Sabnis	New Plant Records from Baroda	J. Bom. Nat. Hist. Society, 1981.
3.	M. A. Padhya, P. B. Kishore and A. R. Mehta	Production of Phenolics in <i>Acrostichum sureum</i> L. during growth <i>in vitro</i> .	Curr. Sci. 50 (13); 1981, 594-95.
4.	M. A. Padhya & A. R. Mehta	<i>In vitro</i> studies on gametophytes of <i>Pteris vittate</i> L.	Curr. Sci. 50 (13); 1981, 595-596.
5.	A. Das Gupta & R. P. Bhatt	Cytotaxonomy of Malvaceae II. Chromosome number and Karyotype Analysis of <i>Thespesia</i> , <i>Hibiscus</i> , <i>Abelmoschus</i> , <i>Pavonia</i> and <i>Malachra</i> .	Cytologia 46 : 149-160, 1981.

**Chemistry**

- |    |                               |   |                                      |
|----|-------------------------------|---|--------------------------------------|
| 6. | Suresh Sethna & Y. G. Gaekwad | Nitration of some xanthone                              | J. Inst. of Chemists, 53, 187, 1981. |
| 7. | K. N. Trivedi and R. R. Shah  | (i) Studies in the synthesis of furocoumarins Part XXV. | J. Ind. Chem. Sec., 58, 302, 1981.   |

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|--|--|--|---|
|  | (ii) Studies in 3-hydroxycoumarins part III: Unusual Claisen migration of 3-prenyloxy and 3 (1, 1-dimethyl propargyloxy coumarin derivatives.                                      | Ind. J. Chem., 20B, 210, 1981.                       |   |
| 8. K. N. Trivedi & N. N. Thaker              | (i) The effect of lateral substitution in a mesomorphic homologous series derivatives from p (p'-n-alkoxy benzoyloxy) benzaldehydes and m-xylidines.                               | Ind. J. Chem., 20B, 291, 1981.                       |   |
|  | (ii) Mesomorphic heterocyclic homologous series Cholesteryl esters of 7-n-alkoxycoumarin-3-carboxylic acid and ethylesters of 7 (p-n-alkoxybenzoyloxy) coumarin-3-carboxylic acid. | Indian J. Chem. 20A, 560, 1981.                      |   |
|  | (iii) Low melting mesomorphic homologous series 2-methyl-5-(4'-n-alkoxybenzoyloxy) pyridines.  | Molecular crystals & liquid Crystals, 76, 101, 1981. |   |
| 9. P. K. Bhattacharya and B. A. Jani         | Characterization of some new mixed Schiff base complexes by nitration and demetallation study.   | J. Indian Chem. Soc., 58, 207, 1981.                 |   |
| 10. P. K. Bhattacharya and Uma Chudasama     | Synthesis of Cu(II) macrocyclic tetramine complexes through ligand displacement.   | Ind. J. Chem. 20A, 99, 1981.                         |   |
| 11. P. K. Bhattacharya                       | Structure and stability of mixed ligand complexes (A review article)   | J. Sci Ind. Res. 40, 382, 1981.                      |   |
| 12. P. K. Bhattacharya and P. J. Patel       | A new approach to astatistical stabilization of Cu(II) ternary complexes containing tertiaryamines and O-O-coordinating ligands.   | J. Ind. Chem. Soc., 59, 310, 1982.                   |   |
| 13. P. K. Bhattacharya and K. Gopalakrishnan | Study of some ternary complexes of Cu(II) involving(II)bonding ligands part 2.   | J. Chem. Soc., Dalton Transaction, 353, 1981.        |   |

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| 14. P. K. Bhattacharya and K. V. Patel           | Studies on Binuclear Cu(II) complexes involving coordination of quaridentate Schiff base Cu(II) with tertiary diamine Cu(II). | J. Chem. Soc., Dalton Trans., 359, 1982.                                       |   |
| 15. R. N. Kapadia                                | Cu(II), Ni(II), Co(II), Fe(II) complexes of 2, 3-dioxobutyromide-2-oximi hydrazone and B-Resorcyaldaine.                      | Ind. J. Chem. 20(A) 525, 1981.   |   |
| 16. R. N. Kapadia & M. V. Vyas                   | Synthesis and evaluation of new chelating amphoteric Ion exchangers.  | Ind. Jour. of Technology, 19, 491, (1981).                                     |   |
| 17. Prabha Gowande                               | Chloromethylation of alkoxy coumarin.   | Ind. J. of Chem. 20B, 81, 1981.  |   |
| <b>Geography:</b>                                |   |  |   |
| 18. Prof. R. N. P. Sinha                         | "Cultivable Wasteland in Bihar"   | Bihar Gazetteers, 1981.  |   |
| <b>Mathematics:</b>                              |   |  |   |
| 19. J. R. Patadia & V. M. Shah                   | "One the absolute convergence of Lacunary Fourier series.   | Proc. Amer. Math. Soc. Vol. 83, No. 4, (1981), 680-682.                        |   |
| 20. J. R. Patadia and G. B. Patel                | On the absolute convergence of Lacunary Fourier Series  | Ind. J. Mathas. ( Allahabad ) 21 ( 1979 ) 1-7 ( Published in this year only ). |   |
| <b>Microbiology :</b>                            |   |  |   |
| 21. Smita Savant Nutan Parikh and H. S. Chhatpar | Phosphate mediated regulation of some of the enzymes of carbohydrate metabolism in <i>N. Crassa</i>                           | Experientia ( 1982 ) 30, 310.  |   |
| 22. Prabha Acharya and H. S. Chhatpar            | Purification and Characterization of two forms of 5' AMP Nucleotidase from <i>Neurospora Crassa</i>                           | Ind. J. Expt. Biol. ( 1981 ), 19, 953.   |   |
| 23. C. S. Nautiyal and V. V. Modi                | ( i ) The regulation of some enzymes involved in ammonia assimilation by <i>Rhizobium meliloti</i>                            | Experientia ( 1981 ) 37, 121.  |   |

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|     | (ii)   | Regulation of glutamine synthetase I from <i>Rhizobium meliloti</i>  | Curr. Microbiol. (1981) 5, 329.                    |
|     | (iii)  | Enzymes of Ammonia assimilation in root nodules of <i>Trigonetla foenumgraecum</i>                             | Phytochemistry (1982) 21, 505.                     |
| 24. | N. S. Govind and V. V. Modi                              | Regulation of trisporic acid synthesis in <i>Blakeslea trispora</i>  | Indian J. of Exptl. Biol. (1981) 19, 504.          |
| 25. | N. S. Govind Bina Mehta, Meenakshi Sharma and V. V. Modi | (i) Protease and carotenogenesis in <i>Blakeslea trispora</i>  | Phytochemistry (1981) 20, 2483.                    |
|     | (ii)   | Protease and stimulation of carotenogenesis by abscisic acid its related compound in <i>Blakeslea trispora</i> | Ind. J. Exp. Biol. (1981) 19, 1142.                |
| 26. | Ketan Shah, Sunita de Souza and V. V. Modi               | Studies on Transducing-Phage M-1 for <i>Rhizobium iaponicum</i> D-211  | Archives of Microbiology Vol. 130, 262-266 (1981). |
| 27. | Gopa Majmudar, V. V. Modi and V. A. Palejwala            | Effect of Plant growth regulators on Mango ripening  | Ind. J. Expt. Biol. (1981) 19, 885-886.            |
| 28. | K. Shailubhai, N. N. Rao and V. V. Modi                  | Degradation of benzoate and salicylate by <i>Aspergillus niger</i>   | Ind. J. Exp. Biol. Nal. 20, 166-168 (1982).        |
|     | Physics :  |  |  |
| 29. | G. R. Pandya and D. D. Vyas                              | (i) Dislocation on etch pits in Anhydrous Diglycine sulphate   | Cryst. Res. and Tech 3, 373 (1982).                |
|     | (ii)   | On growth and Max-photological studies of TGS single crystals  | Cryst. Res. and Tech. 12, 1353 (1982).             |
|     | (iii)  | Growth and etching of anhydrous Diglycine sulphate single crystal  | Cryst. Res. and Tech. 3, (1981).                   |

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|-----|---|---|---|
| 30. | V. K. B. Kota, S. P. Pandya and V. Potbhare | Occupancy and changes in upper f-p shell nuclei                                       | Phys. Rev. C-24, (1981).  |
| 31. | V. Potbhare, S. K. Sharma and S. P. Pandya  | High spin yrast cascade in $^{60}\text{Ni}$   | Phys. Rev. C-24, (1981), 2355.  |
| 32. | N. S. Rao and H. S. Desai                   | Elastic Scattering of electrons by Helum atoms in higher order Born approximation     | Pramana, 17, No. 4 Oct. 1981.   |
| 33. | R. V. Joshi and N. L. Kekan                 | Correlation of F Centre with 300 K.   | Crystal Lattice Defects, 1981.  |
| 34. | V. P. Bhatt and C. F. Desai                 | (i) Temperature dependence of Vickers microhardness and Creep of InBi single crystals | Bulletin of Materials Science 4 No. 1 (1982) 23-82.                                 |
|     |   | (ii) Impact induced fracture of InBi single crystals                                  | J. of Less-Common Metals 81, (1981) 261-265.  |
| 35. | V. P. Bhatt and R. M. Patel                 | Single crystal growth of triglycine sulphate (TGS) in silica gel                      |   |
| 36. | M. M. Patel and S. G. Nene                  | Rotational analysis of B-X system of AgBr molecule                                    | Indian J. of Pure and Appl. Physics, March, 1982.                                   |
|     | Statistics :                                |   |   |
| 37. | M. Sreehari and B. L. S. Prakasa Rao        | (i) On some properties of geometric distribution                                      | Sankhya (1980) published in 1981.   |
|     |   | (ii) Rate of Convergence in the invariance principle for random sums                  | Sankhya (1982).   |
| 38. | A. G. Phatak and M. Sreehari                | Some characterizations of a Bivariate Geometric Distribution                          | Journal of Indian Statistically Association (1981).                                 |
| 39. | D. K. Shah and A. G. Phatak                 | On Incomplete information of Fully curtailed double sampling                          | M. S. University Journal, Science issue No. 3 (1980) Vol. XXIX (Published in 1982). |

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| 40.                             | Dr. A. G. Phatak                                   | A Note on N-Plemma  | Gujarat Statistical Review, Oct., 1981.                          |
| 41.                             | M. M. Gandotra, Narayan Das and R. V. Bhatt        | Factors influencing Sema-Natal Mortality in an Indian Community   | Demography India, Nos. 1 and 2, 1980, Published in January 1982. |
| <b>Zoology :</b>                |  |   |  |
| <b>Development Physiology :</b> |  |   |  |
| 42                              | R. V. Shah, T. Varughese and P. K. Hiradhar        | (i) Effect of Hypophysectomy on lactate dehydrogenase (LDH) activity in the regenerate and liver during tail regeneration in the house lizard, <i>Hemidactylus flaviviridis</i> ruppell.                      | Mont. Zool. Intal. 15, pp. 87-94, (1981).                        |
|                                 |  | (ii) Effect of hypophysectomy on growth rate of regenerating tail in the house lizard " <i>Hemidactylus flaviviridis</i> ".   | Ind. J. Exptl. Biol. 19, pp. 1015-1017, Nov., (1981).            |
|                                 |  | (iii) Effect of hypophysectomy on the level of ascorbic acid in liver, kidney and regenerate in the house lizard, <i>Hemidactylus flaviviridis</i> during tail regeneration.                                  | J. Anim. Morphol. Physiol. 28 : 1-2, pp. 117-127, (1981).        |
| 43.                             | Jaishri Menon, R. V. Shah and P. K. Hiradhar       | Effect of thyroidectomy on carbohydrate metabolism during tail regeneration in the gekkonid lizard <i>Hemidactylus flaviviridis</i> .   | Ind. J. Exptl. Biol. 19, pp. 1018-1021, Nov., (1981).            |
| 44.                             | A. V. Ramachandran, M. S. Swamy and R. V. Shah     | Cholinesterases in tail regeneration : A systemic and local analysis in the scinoid lizard <i>Mabuva carinata</i> .   | Ind. J. Exptl. Biol. 19, pp. 1022-1025, Nov. (1981).             |
| 45.                             | R. V. Kinariwala, R. V. Shah and A. V. Ramchandran | (i) Vitamin C in wound healing : A quantitative evaluation of the changes in the caudal, hepatic and renal ascorbic acid contents during tail wound healing in the agamid lizard, <i>Calotes versicolor</i> . | J. Anim. Morphol. Physiol. 28 : 1-2, 158-165 (1981).             |

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|                                  |                                      | (ii) Preliminary observations on thyroid during tail regeneration in the scincid lizard, <i>Mabuva carinata</i> .   | J. Anim. Morphol. Physiol, 28 : 1-2, pp. 242-245 (1981). |
| <b>Avian Biology :</b>           |                                      |   |  |
| 46.                              | S. Iyengar and B. Pilo               | (i) Monoamine oxidase in brain maturation : A histochemical study during post-hatching development in altricial birds.                                      | J. Fur Hirn. 22 : 1, pp. 195-204 (1981).                 |
|                                  |                                      | (ii) Glucose-6-phosphate dehydrogenase and NADP linked malate dehydrogenase during post-hatching development of brain of altricial birds.                   | Neurochem. Res. 6:1, pp. 69-79, (1981).                  |
|                                  |                                      | (iii) Light microscopic studies during post-hatching development of brain of altricial birds.   | J. Anim. Morphol. Physiol., 28 1-2 pp. 144-152 (1981).   |
| 47.                              | G. K. Menon                          | Notes on the highly modified bristles of lesser adjutant stostork <i>Lepoptilos javanicus</i> .   | J. Yama. Instt. Ornithol. 18 : 9, pp. 213-219 (1980).    |
| <b>Reproductive Physiology :</b> |                                      |   |  |
| 48.                              | P. M. Ambedkar and N. F. Gangaramani | Early influenced of testosterone propionate administration on hepatic recovery in castrated male albino rats.   | J. Anim. Morphol. Physiol. 28 : 1-2 pp. 196-205, (1981). |
| 49.                              | P. M. Ambedkar and D. M. Vyas        | Some observations on activity of stat phomonoesterases of rat preputial gland (A sebaceous analogue).   | J. Amin. Morphol. Physiol. 28 : 1-2, pp. 210-215, (1981) |
| <b>Fishery Biology:</b>          |                                      |   |  |
| 50.                              | U. M. Joshi and A. K. Desai          | Effect of sublethal concentration of monocrotophes on acid and alkline-phosphatase activities in the tissue of fresh water fish <i>Tilapia mossambica</i> . | J. Anim. Morphol. Physiol. 28 : 1-2, pp. 221-228 (1981). |

## (b) 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	2	3	4
<b>Botany :</b>			
1.	S. D. Sabnis	Man and Environment, Symposium All India Museums Conference, Baroda, 26-29 December, 1981	A paper on urban vegetation.
2.	G. Prathapasanan	50th Annual Meeting of Biological Chemist., November, 18-20, 1981	(i) Stimulation of germination of Paddy ( <i>oryza-sativa</i> L. Var. GR.3) by GA3 under toxic level of salt. (ii) Inhibition of germination paddy ( <i>Oryza-sativa</i> L. Var. Bhura Rata) by Salt (NaCl) and its partial reversal by GA3.
<b>Chemistry :</b>			
3.	K. N. Trivedi	(i) 8th International Conference of Heterocyclic Chemistry, Graz, Austria, August 23-28, 1981	(i) Thermal condensation of phenols with ethylsalicylates: A new one step synthesis of xanthone. (ii) A novel coumarin ring migration in the hydrolysi of 3-bromo-4-methyl pyrano (3, 2-C) benzopyran.

1	2	3	4
		(ii) 3rd National Symposium in element Organic Compounds in Organic Synthesis, Jaipur 22nd-25th February, 1982	Synthesis of 5-furnano (2', 3'-3, 4 xanthone using Cu Salt of tetrahydro-pyran-3-hydroxy-3-methyl-but-1-yne.
4.	P. K. Bhattacharya	(i) 3rd National Symposium in elements Organic Synthesis, Jaipur 22nd-25th February, 1982  (ii) Annual Convention of Chemists, IIT Madras, December, 1981	Study of antiferromagnetic interaction in binuclear Cu (II) complexes involving mannich base.  Study of the effect of substitution on catechol ring on ternary complexes stability.
5.	S. M. Desai	Annual Convention of Chemists, IIT, Madras, December, 1981	Studies in 4-Hydroxycoumarin.
6.	B. V. Kamath	Annual Convention of Chemists, IIT, Madras, December, 1981	Separation of Aromatic Acids on Ion Exchange Resin Column: Effect of Hydrogen bonding and Steric Interaction.
7.	Mrs. Surekha G. Devi	(i) Annual Convention of Chemists, IIT, Madras, December, 1981  (ii) Ion Exchange Symposium at Shantiniketan, January, 1982	Nickel (II), Copper (II) and Cobalt (II) complexes of some substituted thiosemi carbanomes.  Design of Syllabus on Ion Exchange: Some considerations
8.	Mrs. Uma Chudasama	All India Co-ordination Chemistry Conference Unwar Ullom, Hyderabad, January, 31st-1st February, 1982	Mixed ligand complexes of Cu (II) tertiary amines and tridentate Schiff bases.

1	2	3	4
<i>Geography :</i>			
9.	R. N. P. Sinha	(i) I.G.U. International Symposium on Energy Resources, Environment and Habitate Transformation in the Developing Countries, at Meerut from 16th March, 20th March, 1982 (ii) Symposium on "Geography and Rural Development" organized by the Department of Geography, M.S.U. of Baroda from 21st December to 24th December, 1981	Asthetic Aspect of Rural Habitate transformation case study of Gujarat.  Rural Slums: A case study of Social Segregation.
<i>Geology :</i>			
10.	S. J. Desai	Symposium on three decades in development of Petrology, Petrochemistry and Minerology in India by G.S.I. Jaipur, May 19-21, 1981	Primary albite, calcite chlorite in spilitic rocks of Ranibaugh Bhimtal area, Nainital Dist., U.P.
11.	A. N. Shah	Symposium on three decades in development of Petrology, Petrochemistry and Minerology in India by G.S.I. Jaipur, May 19-21, 1981	Geology and Petrochemistry of Almora granite massif, U.P.
12.	P. P. Patel and K. C. Tiwari	Symposium on three decades in development of Petrology, Petrochemistry and Minerology in India by G.S.I. Jaipur, May 19-21 1981	A reclassification of the crystalline rocks around Sirohi, Rajasthan.
13.	P. P. Patel	Three decades of Engg. Geol. investigations in India, by G.S.I. Dehradun, 7th September, 1981	Fossil river courses and Problems of dam foundations on Saurashtra area of Gujarat.
14.	R. V. Karanth	(i) Symposium on three decades in development of Petrology, Petro-chemistry and Minerology in India by G.S.I. Jaipur, May 19-21, 1981	Polymetamorphism in Almora Crystallines Kumaon Himalaya.

1	2	3	4
		(ii) Himalayan Geology Seminar- Dehradun, December, 1981	Structural intricacies of Almora Crystallines in Kumaon Himalaya.
		(iii) Workshop on fluid inclusion studies I.I.T., Bombay, March, 1982	Fluid inclusion studies on calcite from lower Narmada Valley, Gujarat State.
<i>Mathematics :</i>			
15.	V. M. Shah	69th Session of the Indian Science Congress Association held at Mysore University, Mysore, January, 3-8, 1982	On the absolute summability of Lacunary Fourier Series.
<i>Microbiology :</i>			
16.	Smita Savant, Nutan Parikh and H. S. Chhatpar	22nd Annual Conference of Association of Microbiologists of India, November 5-7, 1981 at Lucknow	Phosphate mediated changes in carbohydrate metabolism and carotenogenesis in <i>N. crassa</i> .
17.	Smita Savant, Nutan Parikh, Mrudula Shinde and H. S. Chhatpar	22nd Annual Conference of Association of Microbiologists of India, November 5-7, 1981 at Lucknow	Catabolite repression inactivation of cytosolic MDH and FDP aldolase in <i>N. crassa</i> .
18.	Naishadh Desai and H. S. Chhatpar	SBC 50th Annual Conference, 18-20th November, 1981	Studies on Biochemical Basic of spoilage of coconuts by 'Botysdipoidia theobromoe' Pat.
19.	Phiroze Sethana and V. V. Modi	National Symposium on Biological Nitrogen Fixation at IARI, New Delhi, February 25-27, 1982	Preliminary characterization of Adenosine triphosphatase from soybean.
20.	Usha George, V. V. Modi and Prakash Rao	National Symposium on Biological Nitrogen Fixation at IARI, New Delhi, February 25-27, 1982	Rhizobial Glutamine synthetases.

1	2	3	4
21.	J. K. Buch and P. J. Dave	SBC, 50th Annual Conference, 18-20th November, 1981	Microsome mediate mutagenicity of aflatoxin B1 in <i>Bacillus megaterium</i> SJ-6.
22.	C. S. Nautiyal and V. V. Modi	National Symposium on Biological Nitrogen Fixation at IARI, New Delhi, February 25-27, 1982	Regulation of Glutamine synthetase.
23.	V. V. Modi and V. A. Palejwala	SBC, 50th Annual Conference, Symposium I, 18-20th November, 1981	Phyioisology of ripening of fruits and blossoming of flowers. Topic: Abscisic acid and fruit ripening.
24.	Usha George, V. V. Modi, Prakash Rao and Ketan Shah	SBC, 50th Annual Conference, Symposium I, 18-20th November, 1981	Biological Nitrogen fixation Topic: Studies on glutamine synthetase and genetic mapping techniques in <i>Rhizobia</i> .
25.	Smita Kapila, N. N. Rao and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Sensitization of <i>Salmonella typhi</i> to Gemma, Radiation with Ascorbic acid.
26.	Sujata Mehd and H. S. Chhatpar	SBC, 50th Annual Conference, 18-20th November, 1981	'Regulation of Invertase in <i>Aspergillus niger</i> '.
27.	Bina Mehta, N. S. Govind and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Regulation of carotene production <i>Blakeslea trispora</i> , Interaction of Inhibition with serine protease'.
28.	Phiroze Sethna and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	Characterization of Adenosine Tri-phosphatase from <i>Rhizobium japonicum</i> 61 A-76.

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29.	J. N. Dholakia and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Isolation, Purification and Characterization of Extracellular B-glucosidase from a carotenogenic mold <i>Blakeslea trispora</i> .
30.	Smita Sawant, Nutan Parikh, Mrudula Shinde and H. S. Chhatpar	SBC, 50th Annual Conference, 18-20th November, 1981	'Effect of Phosphate on some of the enzymes of carbohydrate metabolism in <i>Neuespora crassa</i> '
31.	Ram Sharma Puranam, Anita Inamdar and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Purification and Properties of an Extracellular OC-amylase from a Thermophilic mold' <i>Chaetomium coprophile</i> .'
32.	Sudhir R. Sahashrabudhe, Narayan N. Rao and Puranam Ram Sharma	SBC, 50th Annual Conference, 18-20th November, 1981	Glutamine synthetase from Thermophilic Fungus <i>Chaetomium thermophilum</i> coprophile'.
33.	N. N. Rao, A Sharma and S. S. Kapila	SBC, 50th Annual Conference, 18-20th November, 1981	Extracellular Proteases from a Thermotolerant <i>Pseudomonas</i> species'.
34.	Darshna R. Desai and N. N. Rao	SBC, 50th Annual Conference, 18-20th November, 1981	Studies on Production and Properties of Fungal Protease's.
35.	Rekha Somayaji K. Shailubhai, N. N. Rao and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	Metabolism of Resorcinol in <i>Aspergillus niger</i> .

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36.	K. Shailubhai, N. N. Rao and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	Catechol, 1, 2, oxygenase from <i>Aspergillus niger</i> grown on salicylate'.
37.	Bipin Nair, A. K. Shah, V. B. Mehta and B. S. Vaidya	SBC, 50th Annual Conference, 18-20th November, 1981	'Pentose phosphate pathway mediated glucose catabolism in light in blue-green algae 'Chroococcus minutus'.
38.	Hemlata Negi, Bipin Nair and A. K. Shah	SBC, 50th Annual Conference, 18-20th November, 1981	Glucose induced Alternation in Enzyme levels in a Heterotroph Blue-green Algae <i>Chroococcus minutus</i> .
39.	Anita Inamdar, Ramsharma Puraram and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Effect of Temperature and Growth medium on the lipids of <i>Chaetominum thermophile</i> var <i>coprophile</i> '.
40.	Ketal Shah, Namila Bagash and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Ethidium Bromide Induced Mutagenesis in <i>Rhizobium iaponicum</i> '.
41.	Hemang Bar- bhiya, Prempal Gill and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Rifampicin Effects in Eukaryotic system'.
42.	Prerna Resham- wala, N. S. Govind and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Hydrocarbon Induced Cell surface, Protein changes in <i>Blakeslea trispora</i> .'
43.	Shilpa Buch, Ganga Natrajan and P. J. Dave	SBC, 50th Annual Conference, 18-20th November, 1981	"Glucose and Phenethyl Alcohol mediated Inhibition of Alkaline Phosphatase and Prodigiosin synthase in <i>Serratia marcescens</i> ."

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44.	A. R. Amin, N. N. Rao, V. V. Modi and S. R. Udipa and M. S. Chadha	SBC, 50th Annual Conference, 18-20th November, 1981	'Microbial transformation of calotropsis Latex by <i>Aspergillus</i> Species.
45.	Parag Sadhale, Ketan Shah and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	'Studies on Biochemical Nature of leghemoglobin from <i>Trigonella foenum graecum</i> (L).
46.	C. S. Nautiyal	SBC, 50th Annual Conference, 18-20th November, 1981	The Studies on some oxidative enzymes in Root nodules of <i>Trigonella graecum</i> (L).
47.	Shilpa Buch, P. Sathivel and P. J. Dave	SBC, 50th Annual Conference, 18-20th November, 1981	'Some Aspects of Phage Infection the host <i>Serratia marcescens</i> '.
48.	M. V. Toraskar and V. V. Modi	SBC, 50th Annual Conference, 18-20th November, 1981	Involvement of Peroxidase in Development of Chilling Injury in Bananas.
<i>Physics :</i>			
49.	G. R. Pandya	XIII National Seminar on Crystallography, Nagpur 15-18 March, 1982	(i) On growing Diglycine Nitrate (DGN), single crystals. (ii) Deformation studies on Achydrous Diglycine Sulphate.
50.	N. L. Kekan	XIII National Seminar on Crystallography, Nagpur, 15-18 March, 1982	(i) TL Study of 490°K Centre. (ii) Excitation and emission of undoped KCL.

1	2	3	4
			(iii) Excitation and emission studies of heavily doped KCL with Sr. <sup>++</sup>
51.	H. S. Desai and K. N. Joshipura	XIII National Seminar on Crystallography, Nagpur, 15-18 March, 1982	Elastic scattering of electrons from hydrogen molecule in independent atom model approximation.
52.	H. S. Desai and N. S. Rao	XIII National Seminar on Crystallography, Nagpur, 15-18 March, 1982	Elastic scattering of electrons from helium atom in high-energy order Born approximation.
53.	H. S. Desai and V. M. Chhaya	International Conference on the Physics of electronic and atomic collision Tennessee, U.S.A. 1981 (Poster Section).	Electron scattering from highly polar molecular.
54.	P. M. Shah	(i) National Symposium on ESR and Optical spectra of transition metals and Rare-earth ions, Tirupati, 11-15 January, 1982 (ii) Indian Science Congress, Mysore, 3-8 January, 1982	Rotational analysis of MgCl molecule. Rotational analysis of $2\Sigma-A^2\Pi_{3/2}$ system of MgCl.
55.	A. B. Darji	(i) National Symposium on ESR and Optical spectra of transition metals and Rare-earth ions, Tirupati, 11-15 January, 1982 (ii) National Symposium on ESR and Optical spectra of transition metals and Rare-earth ions, Tirupati, 11-15 January, 1982	Rotational analysis of InI molecule. B-X system of InI in emission.

1	2	3	4
56.	N. R. Shah	(i) National Symposium on ESR and Optical spectra of transition metals and Rare-earth ions, Tirupati, 11-15 January, 1982 (ii) National Symposium on ESR and Optical spectra of transition metals and Rare-earth ions, Tirupati, 11-15 January, 1982	Vibrational isotopic shifts in C-X system of ZnI-x. Spectrum of ZnI molecule in U.V. region.
<i>Statistics (including the Demographic Res. centre) :</i>			
57.	M. Sreehari	IMS Meeting, San Antonio, USA, March 14-17, 1982	Some remarks on the rate of convergence in the invariance principle for random sums.
58.	A. G. Phatak	10th Annual Conference of Gujarat Statistical Association, M.S.U., December 26-27, 1981	Bayesian inference and Decision.
59.	M. M. Gandotra, Narayan Das and Davamoni Day	XIX International Conference of the International Union of Scientific Study of Population, Manila (Philippines), December 9-16, 1981	Effects of Child mortality on Fertility—A Micro Level Analysis of Indian Data.
60.	M. M. Gandotra and Narayan Das	(i) Seminar on 'Urban Poor' Gujarat Municipal Finance Board and General Administration Department (Planning) Govt. of Gujarat, Gandhinagar, January 5-6, 1982 (ii) Sixth Indian Social Science Congress, Kanpur, October, 23-26, 1981	Health and Fertility Status of Urban Poor. Social, Economic and Demographic Factors Influencing Fertility.
61.	Narayan Das	(i) 10th Annual Conference Gujarat Statistical Association, December 26-27, 1981 M.S.U. Baroda	India's 1981 Census: Some Salient Features.

1	2	3	4
		(ii) 10th Annual Conference Gujarat Stastical Association, December 26-27, 1981 M.S.U. Baroda	Mortality Decline in India: The Influence of Development vs. Public Health Programme.
62.	M. M. Gandotra	International Conference on 'Population Policy Perspectives in Developing Countries of ESCAP Region upto 2000. Deenar, Bombay, December 1-3, 1981.	Fertility Policy Perspective in the ESCAP Region.

(c) Talks given at difference Universities' Institutions :

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
1	2	3	4

*Chemistry :*

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|----|--------------------|--|---|
| 1. | P. K. Bhattacharya | (i) Winter School in Bioinorganic Chemistry at Osmania University, Hyderabad, 26th-27th January, 1982<br>(ii) School of Studies in Chemistry, Vikram University, Ujjain, 8th-9th January, 1982 | Two Lectures on metalloenzyme model compounds.<br>Two Lectures on Nuclear magnetic resonance spectrography and its application. |
| 2. | A. C. Shah         | School of Studies in Chemistry, Vikram University, Ujjain.   | Photochemical reaction of organic sulphur compounds.  |

*Geography :*

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| 3. | R. N. P. Sinha | Department of Geography, Gujarat University, Ahmedabad, 5-12-1981 | "Diego-Garacis". |
|----|----------------|---|------------------|

*Geology :*

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|----|-------------|---|--|
| 4. | S. J. Desai | (i) Indian School of Mines Dhanbad, 8-14 August, 1981 | 10 Lectures delivered in the subject of Metamorphic Petrology. |
|----|-------------|---|--|

1	2	3	4
		(ii) Geological Society at Indian School of Mines, Dhanbad	Spilitic rocks of Ranibaug, Amritpur area, Nainital Dist. U.P.
5.	P. P. Patel	(i) Indian Water Works Association (Bombay) (ii) Central Designs Organisation, Department of Irrigation, Government of Gujarat, Gandhinagar	Ground Water Problems of Gujarat. Sedimentary and Metamorphic rocks as foundations.
6.	R. V. Karanth	(i) Geological Society of India, Bangalore, 5th August, 1981 (ii) I.I.T., Bombay	Polymetamorphism of the Almora Crystallines. Structure and Metamorphism of Almora Crystallines.

*Mathematics :*

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|----|---------------|---|---|
| 7. | J. R. Patadia | Indian Statistical Institute, Bangalore   | Lacunary Fourier Series.                                      |
| 8. | V. M. Shah    | (i) All India Seminar in Mathematics Education organized by N.C.E.R.T. at Delhi from 12-15 October, 1981<br>(ii) 18th Annual Conference of Gujarat Ganit Mandal held at Kamani Science College, Amreli on 30-10-1981 to 1-11-1981 | Mathematics Education.<br>On certain concepts in Mathematics. |

*Microbiology :*

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|----|------------|--|---|
| 9. | V. V. Modi | (i) Max-Planck Institute Cologne W. Germany<br>(ii) Sardar Patel University, Anand<br>(iii) Bioengl Research Centre, New Delhi | Microbiology and Management of Environment.<br>Microbiology and Management of Environment.<br>Microbiology and Management of Environment. |
|----|------------|--|---|

1	2	3	4
	(iv) SBC 50th Annual meeting, Nov., 1981 Baroda		Symposium I-Physiology of Ripening of Fruits and Blossoming of Flowers.

**Zoology :**

10. Prof. R. V. Shah	Bioscience Department South Gujarat Uni. Surat, January, 1982		Respiration in Reptiles.
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(d) *Participation in Inservice Programme :*

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
1	2	3	4

**Botany :**

1. G. Prathapasenan Dr. (Mrs.) K. A. Bhagwat Shri S. M. Begde	All Ind. Short term Instt. in Microbiol. for Biol. Teacher, June 22 to July 12, 1981		Participant
2. G. Prathapasenan	Training Course on Safety Aspect in Res. Application of Ionizing Radition. December, 7-19, 1981 BARC, Bombay		Trainee Participant

**Geology :**

3. D. R. Gadekar	Dibrugarh University, Assam, March, April, 1982.		Visiting Fellow.
4. A. N. Shah	All India Workshop University teaching methods and Evaluation February, 2-6, 1982.		Participant
5. R. V. Karanth	COSIB-ULP in Geology Workshop-Cum-Training in Field Technique in igneous Terrain I.I.T. Bombay, December, 1981		Participant
6. S. Ganpathi	All India Workshop University Teaching Methods and Evaluation February, 2-6-1982		Trainee

1	2	3	4
7. P. K. Patel	All India Workshop University Teaching methods and Evaluation February, 2-6-1982.		Trainee

**Mathematics :**

8. J. R. Patadia	Summer School on 'Mathematical Analysis and Probability Theory' organized by Indian Statistical Institute, Calcutta at Bangalore during 15-6-1981 to 6-7-1981.		Participant
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(e) *National Awards :*

Name of the Teacher	Description of the Awards
Prof. S. S. Merh	Fellowship of the Indian National Science Academy.

**5. Faculty Union Activities :**

The Executive Committee of the Faculty of Science Students' Association consisted of 18 members. Various types of activities were conducted during the year. Prof. N. S. Pandya Trophy Debate was held on 24-2-1982. Microbiology Department won the trophy.

**6. Visitors :**

Sr. No.	Name	Designation	Date/s of the Visit
1	2	3	4

**Botany :**

1. Prof. H. Y. Mohan Ram	Professor of Botany, Delhi University, Delhi		October 6, 1981.
2. Dr. V. Jagannathan	Scientist, National Laboratory Poona.		March, 5 to 6, 1982.
3. Dr. M. N. Naik	Agricultural Advisor, Jyoti Ltd., Baroda		December, 1981.

**Geography :**

4. Dr. Howard F. Hirt	Professor of Geography Framingham State, College, Framingham Centre, Mass (U.S.A.)		November, 25th 1981.
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1	2	3	4
<b>Statistics :</b>			
5. Dr. S. W. Dharmadhakari	Visiting Professor, Department of Mathematics, Southern Illinois University, Carbondale, U.S.A.	10th May, 1981.	
6. Mrs. Standley and Mr. Ginneken	Members of WHO/ICMR Committee Geneva.	20-21 January, 1982.	
7. Dr. I De Garin, Dr. Fisher and Dr. Chiva	Members of Indi-French Committee	January 1982.	

## 10. Highlights of the Year

### *Science Exhibition :*

As one of the activities of Centenary Celebrations of Baroda College, Science Faculty arranged a "Science Exhibition" in February, 1982, and was kept open for public for two days. Hundreds of Citizens visited the exhibition and admired the several exhibits arranged in each of the ten departments of the Science Faculty.

### *Geography :*

Department of Geography organised a Symposium on "Geography and Rural Development" from 21st-24th December, 1981. 26 outstation delegates and 10 local participants were attended this Symposium. 30 papers were presented and read at the symposium.

### *Field Study to Rural Areas :*

The participants of the Symposium were taken round the 'Amul Dairy Complex' at Anand on 23rd December, 1981. On 23rd December, 1981, they were taken to the village Ajarpura (District Kheda) to study tobacco belt of Gujarat. On 24th December, 1981, they were also taken to Sankheda, a centre of Lacquer work, and to Bhatpur, an area of cotton cultivation.

### *Geology :*

- ( i ) Dr. P. P. Patel was awarded a prize for the best Lecture of the year at local Baroda Centre of the Association of Indian Water Works Association.

Title of the Lecture : Ground Water Problems of Gujarat.

- ( ii ) Shri B. M. Chauhan, Jr. Artist of the Department was awarded cash prize of Rs. 1,000/- and a merit certificate by Gujarat Lalit Kala Academy for his best photograph "Garbe Ghumie"—exhibited at Ahmedabad in February, 1982.

### *Microbiology :*

Dr. ( Miss ) Gopa H. Majmudar of the Department has been selected for the Jawaharlal Nehru Award of the ICAR New Delhi, 1981.

### *Mathematics :*

- ( i ) Dr. J. P. Singhal continued to work as a Reviewer for Mathematical Reviews and Zentral blut fur Math.
- ( ii ) Professor V. M. Shah is elected as a Member of the Council of Indian Mathematical Society.

### *Physics :*

Dr. V. P. Bhatt and Dr. G. R. Pandya attended the "International School on synthesis, crystal growth and characterization of materials for energy organation and storage held at National Physical Laboratory, New Delhi during October 12-23, 1981.

Physical Society comprising of members of the staff and graduate and Post-graduate students arranged seminars and lectures on various topics in Physics. Under the auspicious of Indian Physics Association current topics in Physics were discussed and some film shows were arranged during the year.

### *Zoology :*

Dr. R. V. Shah was elected President of the Gujarat Bioscience Association for the year. He delivered presidential lecture on "Present daclarecept of studies in Zoology" at the annual meet held at Sardar Patel University, Vallabh Vidyanagar on 7th February, 1982. He was also invited to deliver inaugural talk by the Zoological Society of Karnataka University of Dharwar.

Dr. B. C. Chauhan has returned from U.S.A. after successful completion of a specialized course in general and industrial toxicatogy at Walsch College, Ohio.

### *Statistics :*

- ( i ) 10th Annual Conference of the Gujarat Statistical Association was held in December 26-27, 1981 in the Department of Statistics,

Faculty of Science, M. S. University of Baroda, Dr. A. G. Phatak, Professor of Statistics, was elected as the President of the G.S.A. Conference.

- (ii) Mr. M. M. Gandotra was invited by the ICMR, New Delhi to participate in the working Group meeting on Health Service Research. The meeting was held on 28th May, 1981.
- (iii) Mr. M. M. Gandotra, Jt. Director, Population Research Centre, participated in the meeting of the Directors of the Project on 'Infant Mortality in the Third World', organised by CICRED, Paris and held at Manila, on 17-18 December, 1981.

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

### 1. Courses of Studies

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

### 2. Number of Students

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

	Men	Women	Total
<b>(a) Degree :</b>			
(i) B.Ed.	95	121	216
(ii) S.Y. B.A. (Psychology)	15	57	72
(iii) T.Y. B.A. (Psychology)	27	51	78
<b>Total</b>	<b>137</b>	<b>229</b>	<b>366</b>
<b>(b) Post-Graduate Degree :</b>			
(i) M.Ed. (Full Time)	5	5	10
(ii) Jr. M.Ed. (Part Time)	30	6	36
(iii) Sr. M.Ed. (Part Time)	21	7	28
(iv) P.G. Dip. in Edul. Adm.	2	—	2
(v) M.A. (Part I) (Psychology)	5	12	17
(vi) M.A. (Part II) (Psychology)	3	10	13
<b>Total</b>	<b>66</b>	<b>40</b>	<b>106</b>
<b>(c) Doctorate :</b>			
(i) Ph.D. (Education)	11	2	13
(ii) Ph.D. (Psychology)	2	2	4
<b>Total</b>	<b>13</b>	<b>4</b>	<b>17</b>
<b>Grand Total</b>	<b>216</b>	<b>273</b>	<b>489</b>

### 3. Staff

#### (a) Present Position :

During the year the staff of the Faculty (including CASE) has continued to be of 4 Professors, 11 Readers, 21 Lecturers, 1 Part-time Lecturer, 17 Class III and 11 Class IV employees.

(b) *New Appointments :*

- (i) Miss Saroj Sinha Lecturer in Psychology  
(ii) Dr. (Kum.) T. K. S. Lakshmi Lecturer in Psychology  
(iii) Kum. Raiza Shaikh, Lecturer in Educational Administration

(c) *Teachers upgraded on Higher Position :*

- (i) Dr. (Mrs.) N. A. Shelat, Reader in Education  
(ii) Dr. J. J. Gajjar, Reader in Education  
(iii) Dr. R. K. Parlikar 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	2	3	4
1.	D. B. Desai, J. A. Christian and T.K.S. Lakshmi	Developing concern for excellence in classrooms	CASE Monograph, October, 1981.
2.	D. B. Desai	(૧) કલ કલે છે (૨) આજી અધારને અજવાળે. On Art Living (Gujarati, An Art of Living)	Book Publications, Baroda. Book Publication Baroda..
3.	M. S. Yadav	Teaching Methods for High and Higher Secondary Schools (Gujarati Book Trust Board)	University Book Trust Board Ahmedabad.
4.	P. K. Dongre	Educational Research as Scientific Inquiry	Journal of Higher Education, Vol. 7 No. 1 Monson, 1981.
5.	S. Roy	Education and Religion	Gujarat State Grantha Nirmal Board, Ahmedabad, 1982.
6.	D. R. Darji	Education in a Rural Community- An Indepth Study of a Village in Karnataka	Quest in Education, Vol. XVIII, No. 4, October, 1981.
		(i) Innovative Proneness of Teacher Educators.	Journal of Education and Psychology, Vol. XXXIX, No. 1, April 1981, S. P. University Vallabhvidyanagar.

1	2	3	4
		(ii) Innovative Proneness of the Teachers of Higher Secondary Schools	Progress of Education, Pune, Vol. IV, No. 11, April 1981.
		(iii) Education management An Old Idea with New Significance	Progress of Education, Pune, IV, No. 12, July 1981.
		(iv) A Study of Teachers Towards Teacher Education Programme.	Progress of Education Pune, Vol. LVI, No. 1, August 1981.
		(v) Innovative Proneness in Secondary Teachers Training Colleges.	Education Review, NCERT, New Delhi, Vol. XVI, No. 1, July, 1981.
		(vi) Dimensions of Managerial Behaviour for Industrial Systems.	International Journal of Behavioural and Dehradun, July, 1981.
		(vii) Adoption in Student Teachers Programme	Experiments in Education, Madras, Vol. IX, No. 9, December, 1981.
		(viii) Management of Education Systems and Research: A Trend Analysis	Indian Education Review NCERT, New Delhi, October 1981.
		(ix) Kelvani Ane Dharma (co-writer with Prof. P. K. Dongre)	University Granth Nirman Board, Ahmedabad, March 1982.
7.	B. R. Panchal	(i) Innovative — proneness of Teacher Educators	Journal of Education and Psychology, S.P. University, Vol. XXXIX, No. 1, April 1981.
		(ii) Innovative—Proneness of the Teachers of Higher Secondary Schools	Progress of Education, Vol. LV, No. 11, June 1981, Pune,
		(iii) Innovative—Proneness in the Secondary Teachers Training	Indian Education Review, NCEP

1	2	3	4
	Colleges		July 1981, Vol. XV, No. 3.
	(iv) School Management: An Old Idea with New Significance		Progress of Education, Pune, July 1981, Vol. LV No. 12.
8.	M. M. Shah	Adoption in Student Teaching Programme—A Tryout, Experiments in Education	Experiments in Education, Madras, November 1981, Vol. IX, No. 9.
9.	N. A. Shelat	Pricing of Higher Education	New Frontiers in Education, Vol. 9, No. 3, July-September 1981.
10.	P. M. Buch	Social Change	Nutan Shikshan, January 1982.
11.	S. M. Joshi	(i) A Study of the Effect of skill based Instructional Materials synchronised with Micro-Teaching, Technique and the Attitude towards Teaching (ii) Effectiveness of Skill Based Instructional Material with Micro-teaching Approach in the Acquisition of the Skill of Illustrating with Explain.	Progress of Education, Special Issue on Teacher Education, Vol. IV, No. 10, May, 1981. Indian Education Review, Vol. VI, No. 3, July 1981.
12.	P. B. Dekhta wala	Teacher Morale in Secondary Schools of Gujarat	Journal of the M. S. University of Baroda, Vol. XXVIII, No. 2, (1979) published in 1982.
13.	N. S. Pathak	Advanced Experimental Psychology	University Book Production Board, Ahmedabad, 1982.
14.	M. Gon	(i) Thing-Person Orientation and Alienation	Psychology Monograph, No. 1, Published by M. S. University Press, 1982.

1	2	3	4
	(ii) A Comparative Study of Feeling of Inferiority and Aggression in Orphans and Children under Proper Parental Care		Paper published in Volume containing selected papers presented at the Vth IACCP International Conference at Utkal University, 1981.
15.	C. N. Daftuar	"Job Attitudes in Indian Management": A Study in Need Deficiencies and Need Importance	Concept publishing Company, 1982, New Delhi
	(b) Papers presented at All India Level Seminars, Conferences etc.:		
1.	M. S. Yadav	(i) National Seminar on 'Emerging Issues in the Methodology of Educational Research,' CASE, Baroda, 4-6 March, 1982.	(a) Educational Research as Scientific Inquiry (b) Educational Research as an Interdisciplinary Endeavour.
	(ii) UGC sponsored Workshop on Quality Control in Educational Research organised by the Department of Education of the University of Allahabad from March 14-17, 1982		"Quantitative and Non-quantitative Methods in Educational Research.
	(iii) UGC sponsored Workshop on Improvement of Standard of Research in Education at the M.Ed., M.Phil. and Ph.D. levels, Department of Education, University of Delhi, January, 4-7, 1982.		"Certain Issues in Methodology of Educational Research.
	(iv) Workshop on Methods of Teaching and Evaluation at the University Stage organised by CASE in February, 1982		"Teaching at the University Stage."

1	2	3	4
	(v)	Fifth International Conference on Higher Education held at the University of Lancaster, Lancaster, U.K. from September, 1-4, 1981. (Paper accepted for presentation)	'Higher Education in India—Survival and Revival'.
2.	P. K. Dongre	National Seminar on "Sanskrit Education" organised by NCERT at Patna from 15th March to 24th March, 1982	"Traditional Methods in Teaching Sanskrit".
3.	S. Roy	National Conference on Development of Creativity", at Nagpur from January 28th to 30th, 1982	"Research Task for Development of Creativity in the Instructional Seeting".
4.	D. C. Joshi	A Workshop on 'University Teaching Methods and Evaluation,' from 2nd to 6th February, 1982, CASE, Baroda. (Acted as Convener)	Acted as Convener.
5.	G. R. Sudame	First Conference of Comparative Education Society of India, Poona, 16-18 October, 1981	"Tribal Education: Need for a Micro-comparative Perspective."
6.	P. B. Dekhtawala	All India Workshop on University Teaching Methods and Evaluation, CASE from 2nd to 6th February, 1982	Teaching Methods at Higher Education Level.
7.	S. D. Patankar	All India Workshop on University Teaching Methods and Evaluation, CASE from 2nd to 6th February, 1982	1. Teacher and Student approach of Teaching. 2. Practical Work at the Higher Education Level.
8.	S. M. Joshi	All India Workshop on University Teaching Methods and Evaluation, CASE from 2 to 6 February, 1982 CASE	1. Lecture Method at the University Stage. 2. Discussion Method at the University Stage.
9.	J. A. Christian	Annual Conference and Seminar-cum-Workshop on "Communicating Chri-	1. Communication and Media.

1	2	3	4
		stian Films in Eighties, Bombay, 9th to 16th January, 1982	2. Psychological Basis of Media Communication.
10.	M. Gon	(i) IInd All India Conference of the Int. Coun. of Psychologists, Kanpur, COHSSIP, Scheme of UGC, May, 1981	Effect of Thing Person Orientation and Sex-difference on Feeling of Alienation.
		(ii) Symposium on Physically Handicapped. Sponsored by UGC, Poona University, 1981	A Comparative Study of the Locus of Control in the Orthopaedically Handicapped and Non-handicapped persons.
		(iii) Annual Conference of Indian Association of Clinical Psychologists, Miraj, December 1981	A Comparative Study of Purpose in Life in Psychology

## (c) Talks given at different Universities/Institutions

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecturer
1	2	3	4
1.	D. B. Desai	(i) Arya Kanya Mahavidalaya (College of Arts), Porbander, 6-8 April, 1981	Motivation for Better Achievement.
		(ii) M. B. Patel College of Education, Vallabhvidyanagar, (9-4-1981)	On Becoming Effective Teachers.
		(iii) Himachal University Students, Simla (17-5-1981)	The Flower Says to Sun-Communication.
		(iv) Students of Department of Education, Himachal Pradesh, Simla (17-5-1981)	Researches on Motivation.
		(v) —do—	Communication Behaviour.
		(vi) Department of Correspondence Education, Himachal Pradesh University, Simla (16-5-1981)	Becoming Effective Teachers.
		(vii) Sardar Patel Institute of Management, Ahmedabad (16-9-81)	Effective Supervising Behaviour.
		(viii) Banasthali Vidyapeeth, Rajasthan, (9-9-1981)	Education and Teacher Training.

1	2	3	4
( ix )	Department of Education Himachal Pradesh University, Simla (2-11-81)	The Art of Living for Happiness.	
( x )	Department of Edu., Kurukshetra University, Kurukshetra (3-11-81)	Research on Class Room.	
( xi )	—do— (3-11-81)	On Building Bridges Between Self and Reality.	
( xii )	College of Education, Ambala, (4-11-81)	On Becoming Effective Teacher	
( xiii )	—do— (4-11-81)	Self Renewal for Effective Teaching.	
( xiv )	Jamia Milia, New Delhi, (5-11-81)	Researches in Class rooms.	
( xv )	—do— (5-11-81)	On Self Renewal.	
( xvi )	Regional College of Education, Bhubaneshwar, (6-11-81)	Renewal in Institutions.	
( xvii )	—do— (6-11-81)	Research in Education	
( xviii )	Centre of Advanced Study in Psychology, Bhubaneshwar, (7-11-81)	Researches in Class rooms.	
( xix )	Headmasters of Schools, South Canara, Karnataka, (9-11-81)	Effective Leadership Behaviour.	
( xx )	Department of Education, Calicut University, Calicut (10-11-81)	Becoming Effective Communicator.	
( xxi )	Department of Education, Hyderabad, (8-11-81)	Studies in Class room Climate.	
( xxii )	Headmasters, Teachers and people, Kutch, Mandvi, (7-2-1982)	Inward Journey (introspection as Technique for Renewal).	
( xxiii )	—do— (8-2-1982)	On Role of Self in the Times of Rapid Change.	
( xxiv )	Teacher College, Mundra, Kutch, (9-2-1982)	Becoming Effective Teacher.	
( xxv )	Teachers of Education College, Kutch, Gandhidham, (10-2-1982)	The Flower and the Sun Dialogue.	

1	2	3	4
	( xxvi )	Lectures of Education College, Jodhpur, (21-2-1982) (Kabra Memorial Lecture)	Flower Says to Sun.
	( xxvii )	Vidya Bhavan Teachers College, Udaipur. (29-3-1982)	Research in Wider Perspective.
	( xxviii )	Tilak College of Education, Dabok (30-3-1982)	Research on Class room Climate.
	( xxix )	Tilak College of Education (30-3-1982)	On Self Renewal.
	( xxx )	Lectures of Education College, Jodhpur (21-2-1982)	Transactional Analysis.
2.	Dongre P. K. ( i )	College of Education, Amravati, Nagpur University (22-12-1981)	How to achieve purity of thought, speech and action
	( ii )	Bhandara College of Education, Bhandara, Nagpur, University. (24-12-1981)	Researches in Curriculum Development.
	( iii )	Government College of Sanskrit and Vedic Studies Gokarna, Karnataka (17-2-1982)	Linguistic Similarities Between Sanskrit and German
	( iv )	Department of Education, Dharwar, Karnataka University, (20-2-1982)	Indian Culture and Education.
3.	D. C. Joshi	Department of Education, Meerut University, Meerut. (9-6-1981)	Orientation Courses for Lecturers of Colleges/Universities.
4.	M. M. Shah ( i )	Higher Secondary School, Vijapur and Ladol. (11-12-1981)	How shall I make my teaching effective ?
	( ii )	St. Mathew College of Education, Madras (17-10-1981)	Innovations in Student Teaching.
	( iii )	Lady Willington College of Education, Madras. (17-10-1981)	Microteaching and Integration of Skills.

1	2	3	4
	(iv)	Meston College of Education, Madras (17-10-1981)	'How will you bring effectiveness in teaching?'
	(v)	Government College of Education, Madras (17-10-1981)	Microteaching and Organizational Patterns.
	(vi)	Technical Teachers Training Institute, Madras, (19-10-1981)	Microteaching and Integration of Skills.
	(vii)	Sarda Training College, Salem. (20-10-1981)	How shall I motivate my young pupils?
	(viii)	Sri Ramkrishna Mission Vidyalaya, Coimbatore, (22-10-1981)	Student Teaching and Innovative Practices'.
	(ix)	Sarvajanik Higher Secondary School, Coimbatore (23-10-1981)	'How shall I be innovative in administration?'
5.	D. R. Darji	Borsad College of Education, Borsad. (21-9-1981)	Curriculum Development.
6.	B. R. Panchal	(i) T. V. Sarvajanik High School, Thuvavi (26-4-1981)	Improvement of School Results of Std. X.
		(ii) Chhota-Udaipur High School Chhota-Udaipur (13-7-1981)	—do—
		(iii) Extension Centre, Baroda (19-8-1981)	Contents of the New Syllabus of Text-book of Science of Std. X.
		(iv) M. H. Dayaram S. M. High School, Dabhoi. (20-8-1981)	—do—
		(v) Extension Services Centre, Baroda. (29-9-1981)	Preparation of Instructional Material, in Science for Std. VIII.
		(vi) Nagar Prathmic Shikshan Samiti, Baroda. (11-12-1981)	Preparation of Teacher's Hand-books for Std. I to VII.

1	2	3	4
	(vii)	P.T.C. College for Men, Baroda. (23-3-1982)	Setting Better Questions Papers.
7.	P. M. Buch	(i) Anand Institution of Education, Borsad. (30-1-1982)	Education and Social Change.
		(ii) Alembic Vidyalaya, Baroda. (25-3-1982)	Concept and Activities of Work Centred Education.
8.	J. A. Christian	Sunday School, Borsad (29-11-1981)	Developing Excellence in Children.
9.	P. B. Dekhtawala	(i) Ahmedabad Productivity Council, Ahmedabad. (31-8-1981 to 1-9-1981)	Improvement of Academic Achievement.
		(ii) Jambusar (20-9-1981)	Activities for the Upliftment of the Community.
10.	N. A. Shelat	(i) Productivity Council, Ahmedabad (12-8-1981)	Achievement Motivation.
		(ii) Baroda High School, Baroda (5-9-1981)	Institutional Planning
		(iii) Baroda District Headmasters Association at Chandod	Leadership Behaviour and Transactional Analysis.
		(iv) Barukot (28-29-1981)	Transactional Analysis
11.	N. S. Pathak	(i) Alembic Glass Industries Ltd. (2-12-1981)	Self Knowledge.
		(ii) Sarabhai Chemicals (20-11-1981)	Communication.
		(iii) Railway Staff College, Baroda (3-8-1981)	Industrial Psychology

## (d) Participation in Inservice Programme :

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
1	2	3	4
1.	D. B. Desai	(i) Orientation Course for Teachers in 'Methods of Teaching and Evaluation in Higher Education' (3-6-Feb. 1982) for new lecturers and Principals of Colleges, CASE, Baroda	Director

1	2	3	4
(ii)	National Seminar on 'Emerging Issues in Methodology' 4-8 March 1982 for Teacher Educators, CASE, Baroda	Director	
(iii)	Seminar at Surat, Bulsar, Panchmahal and Baroda Districts Headmasters Seminar, at Surat on Renewal in Schools, for Effective Management, 9-12 June, 1981.	Director	
(iv)	Seminar on Effective Leadership in Schools, Bulsar District Headmasters' Association, Billimora, 2-11—Oct. 1981	Director	
(v)	Seminar on Preparing Action Research Design for Teacher Educators, Teacher Educators of Mangalore University, Udupi, 8-9 Nov. 1981	Director	
(vi)	Seminar on Methods of Teaching in a College for Lecturers, Lecturers of Calicut, College Calicut University 11-13 November, 1981	Director	
(vii)	Seminar on Effective School Management, Panchmahals District Headmasters' Association, Panchmahals Dist. 28-29, November 1981	Director	
(viii)	Seminar on Effective School Management, Baroda District Headmasters' Association, Chandod, Dist. Baroda, 12-13 December, 1981	Director	
(ix)	Seminar on Leadership Behaviour of Principals, Goa Arch Diocesan Board of Missionary Schools Principals, Arch Diocesan Schools of Goa, 24-27, December, 1981	Director	
(x)	The Seminar on The Role of the Principal as a Leader, Banaskantha	Director	

1	2	3	4
		and Kutch Districts Headmasters' Association, Ambaji, 25-27, Dec. 1981	
2.	D. C. Joshi	The U.G.C. Financed Workshop on University Teaching Methods and Evaluation, CASE, 2nd to 6th Feb, 1982	Convener
3.	M. M. Shah	Seminar at Ahmedabad Productivity Council on 'Motivation' on 23-7-81	Resource Person
4.	N. A. Shelat	Attended Rajya Shikshan Bhavan Population Education UNESCO Project meeting at Ahmedabad on 1-2-1981	Member
5.	B. R. Panchal	Attended Annual Conference for Hon. Directors and Co-ordinators at Regional College of Education, Bhopal from 15th March to 17th March 1982	Co-Ordinator
6.	S. M. Joshi	National Seminar on 'Emerging Issues in the Methodology of Educational Research', CASE, Baroda from 4-6 March, 1982.	Participant
7.	P. B. Dekhtawala	National Seminar on 'Emerging Issues in Research Methodology, CASE, Baroda, from 4-6 March, 1982.	Participant
8.	S. D. Patankar	(i) All India Workshop on University Teaching Methods and Evaluation] from 2 to 6 Feb., 1982 at CASE, Baroda	Participant and also presented a paper on 'Teacher Centred and Student Centred Approach to Teaching and Practical work at the Higher Education Level'.
		(ii) The National Seminar on Emerging Issues in the Methodology of Educational Research, CASE, from 4-6 March, 1982.	Participant

### 5. Faculty Union Activities

During the course of the year, the Faculty Union organised Debates and Cultural Programmes including an Annual Day in General Education Auditorium. They also planned an educational trip to Kayavarohan.

The Psychology Society : They also arranged a get-together to welcome the new members of the Society, which also served as an Orientation Programme. A picnic was organised to Pavagadh. At the end of the year, a farewell get-together was organised for the outgoing members of the Society.

### 6. Library

The CASE has a full fledged Library meant for Post-Graduate students of all the Departments. The following information represent the use of the Library.

Particulars	Number
( i ) Average number of students making use of the library and/or the Reading Room daily during 1981-82.	300
( ii ) Average number of teachers making use of the Library and/or the Reading Room daily.	35
( iii ) Total number of Books issued to students during the year.	about 25,000
( iv ) Total number of books issued to teachers during the year.	7010

Particulars	No.	Cost in Rs.
( i ) Books (including back numbers of journals as on 1-4-1982)	460	29,541-54
( ii ) Books added during the year	606	—
( iii ) Books as on 31-3-1982	13,970	
( iv ) Journals subscribed during the year	26 Foreign and 20 Indian Journals.	29,541-54
( v ) Total amount spent for Library and/or Reading Room	35,000/-	

(U.G.C. Grant of Rs. 20,000 and Re-curring Grant of Rs. 15,000/-)

### 7. Visitors

Sr.No.	Name	Date of the Visit
1	2	3
1.	Dr. (Mrs.) Madhuriben Shah, Chairman, University Grants Commission, New Delhi.	4-3-1982

2. Dr. S. K. Mitra,  
Director,  
NCERT, New Delhi.

3. A Group of Eighteen Teachers and  
Teacher Educators from U.K.

4. Dr. T. N. Hajela,  
Dy. Secretary, U.G.C.  
New Delhi.

### 8. Faculty Publications ( Published from CASE and also by Individual Teachers from Research Grant ).

The Case published the following Monograph :

- ( i ) Developing Concern for Excellence in Classroom's By Professor D. B. Desai, Dr. Jyoti Christian, Dr. T. K. Sundaralaxmi and Dr. Ameetza Govinda, M. S. University of Baroda Press, Baroda.
- ( ii ) A Research Monograph published by Dr. ( Miss ) M. Gon : Thing—Person Orientation and Alienation—Psychology Monograph No. 1 by M. S. University of Baroda Press, Baroda.

### 9. Highlights of the Year

The following Seminars were organised at CASE during the Year under Report :

- ( i ) 21 'Tuesday Seminars' in which research papers were presented by CASE Research Fellows in the CASE Seminar Room and was attended by all the members of the Staff.
- ( ii ) Seminars were arranged on very working Saturday. This also includes Mini Seminars. The Saturday Seminars were piloted by eminent scholars and also some Ph.D. Scholars visiting CASE for their Thesis. Research Papers were presented by Research Fellows in Mini Seminars.
- ( iii ) 19 Eminent educationists of national level delivered lectures in the CASE under the 'Guest Lecture Programme'.
- ( iv ) The CASE organised an All India Workshop on University Teaching Methods and Evaluation from 2nd February, 1982 to 6th February 1982 under the auspices and sponsorship of University Grants Commission. Participants were invited from college under the COSIP and COHSSIP.

- (v) The CASE also organised a National Seminar on 'Emerging Issues in Methodology of Educational Research' which was primarily meant as a forum for Professionals in Educational Research throughout the country to discuss methodological problems they face. It was inaugurated by U.G.C. Chairman Dr. (Mrs.) Madhuriben Shah on 4th March, 1982.
- (vi) Dr. R. K. Yadav., Professor J. L. Azad and Prof. M. N. Palsane, worked as 'Visiting Professors' in CASE and Department of Psychology under the U.G.C. Scheme of Visiting Fellows. They directed Seminars and also delivered lectures for the post-graduate students of the Faculty.

## CHAPTER IX-(B)—UNIVERSITY EXPERIMENTAL SCHOOL

### 1. Course of Studies

The School follows the Syllabus and 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
( i ) Primary I to VII	216	124	340
( ii ) Secondary VIII to X	100	60	160
( iii ) Higher Secondary XI and XII	155	99	254
	<u>471</u>	<u>282</u>	<u>754</u>

### 3. Staff

#### ( a ) Present Position :

The staff of the school consists of 11 Post-graduate trained teachers, 4 Graduate trained teachers, 1 Graduate under trained teacher, 5 other teachers, 2 Laboratory co-ordinators, 1 Library clerk, 1 Senior, 1 Junior Clerk and 7 Class IV employees.

#### ( b ) New Appointments :

Shri Hariharbhai F. Patel appointed as a Higher Secondary Teacher.

### 4. Professional Growth of the Staff

- ( a ) ( i ) Dr. Mahendra Chokshi, elected as a President, Baroda Head Masters' Association.
- ( ii ) Dr. Mahendra Chokshi organised Seminar in Co-ordination of the Extension Department "Chalo Halva thaie".
- ( iii ) Participated in Discussion of the School Boardcast organised by Akash Wani, Baroda-Ahmedabad.
- ( b ) ( i ) Shri M. M. Amin participated in the following Seminar-cum-Workshop organised in Co-ordination of the Extension Department of the Faculty of Education and Psychology:
- ( ii ) Seminar for Science teachers of Std. IX of Baroda City in Extension Hall on 19-8-1981 worked as a Resource person.

- (iii) Seminar for Baroda District Secondary Schools Teachers for the discussion of the contents of IX Science Class Room. Techniques for Practical Demonstrations at M. H. Dayaram Shard Mandir, Dabhoi on 29th and 30th August, 1981.
- (iv) Workshop for preparing instructional materials for Std. VIII Science in Extension Hall on 9th September, 1981.
- (v) Workshop for preparing instructional Materials for Std. VIII Science in Extension Hall from 12-9-1981 to 17-10-1981 (for 6 Saturdays only).
- (vi) Worked as Co-ordinator for Planning the Science Fair organised by Baroda City School and Baroda District Schools at Chhani from 5th to 7th October, 1981.
- (c) Shri Kanti Rana, Art Teacher, was invited for representing are demonstration by Rajya Shikshabhavan on 23rd June, 1981.

#### 5. Experiments and Activities

##### (a) Projects :

- (1) Std. IX Our Neighbouring Asian Countries  
China, Shri Lanka, Pakistan, Bangladesh, Nepal, Burma, Social Studies  
(More than hundred charts)
- (2) Std. VIII The Prayer I like Most English
- (3) Std. VIII A Pictorial Project on 'The Circus' English
- (4) Std. VIII A Pictorial Project on 'The Circus' English
- (5) Std. VIII Models of Letter Box useful activities in life
- (6) Std. VII Charts Arithmetic
- (b) On 30th May, 1982 pur school children broadcasted a programme 'Bharat Darshan' on A.I.R. Baroda.
- (c) Election of the representatives and the Office—teachers of the students council was held.
- (d) School Annual Function was held "Smruti-ni-Pankhe" on 16th March, 1982.

#### 6. Results of Examination

- (i) Result of Std. XII Science Stream—82%. Chi. Himanshu H. Shah stood First in Gujarat and also First in Baroda.
- (ii) Result of Std. XII Common Stream—92.6%.
- (iii) Result of New S.S.C. Examination of March, 1981—81%.

- (iv) Result of Shistavacahan Examination—81.5%.
- (v) Result of Gyanwardhak Examination—96.2%.
- (vi) Result of Balbodh Sanskrit Examination conducted by Bhartiya Vidyabhavan—98.0%.

#### Result of the Hindi Examinations held in September, 1981 :

Balpothi	90%
Paheli	56.2%
Dusari	75%
Tisari	50%

#### 7. Awards and Prizes

##### (a) Awards in Fine Arts :

- (i) Chi. Priti K. Parekh of Std. V obtained a Silver Medal and six children of the school obtained merit certificates in 3rd International Drawing Competition organised by Korean Children Centre.
- (ii) Awards in Sports :
  - (i) Dipti Patel of Std. X got third prize in Long Jump in Baroda District Athletic Competition.
  - (ii) Geeta Dalal Std. VI became the School Champion in Primary Section.
  - (iii) Dipti Patel of Std. X become the school Champion in Secondary Section (Girls).
  - (iv) Adwit P. Bhatt of Std. IX became the School Champion in Secondary Section (Boys).
  - (v) Tushar Arothe of Std. X was selected as player in the West Zone Cricket-Team. He also got a Chance to play from the West Zone in Calcutta.

##### (c) Awards in Debate and Essay Competitions :

- (i) Chi. Paresh B. Shah of Std. XI Science Stream won the Second Prize in Vasant-Rajb Elocution Competition.
- (ii) Chi. Rutwij Desai and Chi. Amit Shah of Std. VIII won Prizes in the Elocution Competition.
- (iii) The following pupils won medals for participating in the programme of 'Save Electricity'.
  1. Chi. Pratik V. Desai—Std. X
  2. Chi. Nirag D. Shah—Std. X.
  3. Chi. Prakash J. Waghela—Std. X.

- (iv) Chi. Jayesh Junagade of Std. VI got first prize in the Essay Competition organised by the Blind Welfare Council and Chi. Ashish Thakkar of Std. VI got a merit certificate.
- (v) Chi. Smita Jani of Std. of XI Science won the third prize in the Elocution and Essay Competition organised by Citizens Blood Donation Committee.
- (vi) Chi. Paresh B. Shah Std. XI Science was declared winner in the Elocution Competition.
- (vii) Chi. Priti K. Desai was declared winner in the Essay Competition.

### 8. Visitors

Name	Subject of the Talk
(i) Shri Jashvant Shah	Music and Songs
(ii) T. V. Artist Bombay	
(iii) Shri Gajubhai Dave	Recital of Poems
(iv) Dr. Oza	Yoga
(v) Dr. Gopal Shastri	Short Story
(vi) Dr. Oza and Alkaben	Dhyan
(vii) Shri Ambegaonkar	How to join Airwing.

## 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 1981-82 was as under:

Class	Men	Women	Total
(1) Diploma in Co-operation ( Under-graduate )	11	—	11
(2) F.Y.B.Com.	988	809	1797
(3) S.Y.B.Com.	1077	653	1730
(4) T.Y.B.Com.	686	418	1104
(5) M.Com.—Part I	261	75	336
(6) M.Com.—Part II	104	26	130
(7) Ph.D.	7	1	8
(8) Post-graduate Diploma in Banking	22	30	52
(9) Post-graduate Diploma in Co-operation	28	—	28
Total	3184	2012	5196

### 3. Staff

#### (a) Present Position :

The staff of the Faculty consisted of 6 Professors, 10 Readers, 20 Lecturers, 27 Teaching Assistants, 17 Class III and 28 Class IV employees.

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

Shri M. C. Patel      Lecturer in Business Economics      Left India.

### 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	2	3	4
(1)	Prof. G. C. Beri	R and D expenditure Growth and Pattern	The Economic Times April 22, 1981.

1	2	3	4
(2) Prof. C. S. Rathod	Financing of Urban Poor		The Times of India, February 7, 1982. (Suppliment on 'New Horizons in Gujarat').
(3) Dr. D. S. Pathak	Demand for Money in Developing Kenya—An Econometric Study (1969-78)	Indian Economic Journal, Vol. 29, No. 1, July-September, 1981.	

(b) *Published Books and Brochures :*

Sr. No.	Name of the Author/s	Name of the Book	Name of the Publisher
(1)	Prof. C. S. Rathod	Urban Co-operative Bank-Role and Development in India (with reference to Gujarat)	M. S. University of Baroda, March, 1982
(2)	Dr. D. S. Pathak and M. R. Vyas	The Principles of Economics	Good Companions Baroda, 1981-82.

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

Sr. No.	Name	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
(1)	Dr. S. Sri-kantiah	(i) Conference of the India Institution of Industrial Engineers, April 1981 (ii) Seminar at Industrial Development Bank of India September, 1981	Productivity and Wage links. Tiny sector Industries—an overview.
(2)	Dr. S. Sri-kantiah and	Sardar Patel Research Institute, Ahmedabad, August, 1981	Equity Issues in Higher Education.
(3)	Dr. D. S. Pathak	(i) Institute of Development Studies, Nairobi, Kenya, May, 1981 (ii) Kenya Economic Association, University of Nairobi, Kenya, April, 1981	Transmission Mechanism of the Monetary Policy. Some Issues in Estimating Demand for Money in Kenya.

## 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) A Certificate new course was started during the year by the Department of Physiology viz. Laboratory Technician course.

## 2. Number of Studies

## (1) Degree :

	Male	Female	Total
(i) 1st Year	113	27	140
(ii) 2nd Year	132	25	157
(iii) 3rd Year	177	36	213
(iv) 4th Year	116	20	136
(v) 5th Year	122	22	144
Total	660	130	790

## (2) Post-graduate Diploma :

	Male	Female	Total
(i) D.A.			
(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.			
(xi) D.C.H.			
All Branches	106	23	129

## (3) Post-graduate degree :

	Male	Female	Total
(i) M.D.			
(ii) M.S.			
(iii) M.Sc.			
(iv) Ph.D.			
All Branches	192	34	226
Total	192	34	226
Grand Total	958	187	1145

## 3. Staff

## (a) Present Position :

The staff of the College consisted of 1 Dean, 25 Professors, 20 Associate Professors, 80 Assistant Professors, 56 Tutors, 22 Other Gazetted Teachers, 4 Part-time Assistant Professors, 13 Honorary Professors, 11 Honorary Assistant Professors, 129 Class III and 109 Class IV employees.

## (b) New Appointments :

- |                               |   |
|-------------------------------|---|
| (1) Dr. B. V. Subrahmanyam    | Professor in Forensic Medicine                        |
| (2) Dr. V. R. Shah            | Associate Professor in Anaesthesia                    |
| (3) Dr. M. Jaychandran        | Associate Professor in Radiotherapy                   |
| (4) Dr. (Mrs.) Shashidua      | Assistant in Anatomy Asst. Prof.                      |
| (5) Dr. R. K. Pasale          | Assistant in Pathology                                |
| (6) Dr. (Mrs.) R. R. Vyas     | Assistant in Microbiology                             |
| (7) Dr. H. R. Patel           | Assistant in Medicine                                 |
| (8) Dr. J. D. Labhani         | Assistant in Medicine                                 |
| (9) Dr. V. C. Nayak           | Assistant in Surgery                                  |
| (10) Dr. C. B. Nagori         | Assistant in O. and G.                                |
| (11) Dr. L. N. Chauhan        | Assistant in O. and G.                                |
| (12) Dr. S. R. Shah           | Antinatal Medical Officer-cum-<br>Assistant Professor |
| (13) Dr. K. K. Shah           | Assistant in Paediatrics                              |
| (14) Dr. P. P. Golwala        | Assistant in Orthopaedics                             |
| (15) Dr. (Mrs.) M. P. Golwala | Assistant in Anaesthesia                              |
| (16) Dr. P. A. Vora           | Assistant in Radiography                              |
| (17) Dr. B. M. Halwadia       | Assistant in C. T. Surgery                            |
| (18) Dr. P. K. Sharma         | Assistant in Plastic Surgery                          |
| (19) Dr. K. R. Patel          | Assistant in T.B.                                     |
| (20) Dr. R. M. Brahmbhatt     | Assistant in Medicine                                 |
| (21) Dr. R. V. Pandya         | Tutor in Anatomy                                      |
| (22) Dr. S. S. Saiyad         | Tutor in Anatomy                                      |
| (23) Dr. S. V. Patel          | Tutor in Anatomy                                      |
| (24) Dr. K. S. Rada           | Tutor in Anatomy                                      |
| (25) Dr. (Miss) A. G. Dadlani | Tutor in Physiology                                   |
| (26) Dr. K. D. Pandya         | Tutor in Physiology                                   |
| (27) Dr. D. R. Trivedi        | Tutor in Physiology                                   |
| (28) Dr. M. B. Jani           | Tutor in Physiology                                   |
| (29) Dr. (Miss) V. N. Shah    | Tutor in Bio-chemistry                                |
| (30) Dr. (Miss) B. J. Trivedi | Tutor in Pharmacology                                 |

- |                                  |  |
|----------------------------------|--|
| (31) Dr. R. R. Ingale            | Tutor in Pathology                         |
| (32) Dr. P. J. Parikh            | Tutor in Pathology                         |
| (33) Dr. R. A. Mukharjee         | Tutor in Pathology                         |
| (34) Dr. (Mrs.) S. G. Chiplunkar | Tutor in Pathology                         |
| (35) Dr. (Kum.) V. N. Rajwadi    | Tutor in Microbiology                      |
| (36) Dr. R. K. Chhaya            | Tutor in Microbiology                      |
| (37) Dr. (Kum.) N. D. Desai      | Tutor in Microbiology                      |
| (38) Dr. A. A. Ramanuj           | Tutor in Microbiology                      |
| (39) Dr. K. K. Sarothiya         | Tutor in Microbiology                      |
| (40) Dr. G. R. Patel             | Tutor in Surgery                           |
| (41) Dr. P. Vithalani            | Tutor in E.N.T.                            |
| (42) Dr. B. V. Mevai             | Tutor in Anaesthesia                       |
| (43) Dr. M. M. Dholakia          | Tutor in Radiography                       |
| (44) Dr. (Mrs.) R. P. Sheth      | Tutor in Anaesthesia                       |
| (45) Dr. K. R. Engineer          | Tutor in Forensic Medicine                 |
| (46) Dr. P. K. Shah              | Tutor in Forensic Medicine                 |
| (47) Dr. K. M. Krolia            | Tutor in Pathology                         |
| (48) Dr. A. N. Shah              | Tutor in Pathology                         |
| (49) Dr. J. P. Parmar            | Tutor in Preventive and Social<br>Medicine |
| (50) Dr. R. S. Durvasula         | Tutor in Preventive and Social<br>Medicine |
| (51) Dr. R. K. Baxi              | Tutor in Preventive and Social<br>Medicine |
| (52) Dr. (Mrs.) P. M. Petrolwala | Tutor in Anaesthesia                       |
| (53) Dr. (Kum.) Swati Dixit      | Tutor in Anaesthesia                       |
| (54) Dr. P. J. Zinzuvadiah       | Tutor in Anaesthesia                       |

## (c) Teachers Upgraded to Higher Position :

- |                               |                                   |   |
|-------------------------------|-----------------------------------|---|
| (1) Dr. H. A. Thekar          | (Asstt. Prof. in Physio-<br>logy) | Asso. Prof. Physiology                      |
| (2) Dr. (Mrs.) S. S. Nagar    | (Asstt. Prof. in S. M.)           | Asso. Prof. of Preventive & Social Medicine |
| (3) Dr. K. J. Pathak          | (Asstt. Prof. in Medicine)        | Asso. Prof. of Medicine                     |
| (4) Dr. (Mrs.) R. M. Upadhyay | (Tutor in Anaesthesia)            | Asstt. in Anaesthesia                       |

## (d) Teachers who left the College :

- |                          |   |             |
|--------------------------|---|-------------|
| (1) Dr. C. P. Shah       | Prof. of Medicine                                 | Retired     |
| (2) Dr. A. R. N. Setawad | Asstt. Prof. of Preventive and<br>Social Medicine | Transferred |

(3)	Dr. A. G. Desai	Asstt of Pathology	Resigned
(4)	Dr. K. R. Vaishnav	Asstt of Pathology	Transferred
(5)	Dr. (Kum.) G. K. Desai	Asstt in Surgery	Transferred
(6)	Dr. V. C. Niyak	Asstt in Surgery	Resigned
(7)	Dr. (Mrs.) Chhaya	Asstt in O and G Obstristic	Resigned
(8)	Dr. R. V. Pandya	Tutor in Anasthesia	Resigned
(9)	Dr. S. S. Saiyed	Tutor in Anasthesia	Transferred
(10)	Dr. K. S. Rana	Tutor in Anasthesia	Resigned
(11)	Dr. M. P. Patel	Tutor in Pharmacology	Transferred
(12)	Dr. J. C. Shah	Tutor in Pathology	Resigned
(13)	Dr. (Kum) P M Vora	Tutor in Pathology	Resigned
(14)	Dr. B. B. Zanzarkia	Tutor in Pathology	Resigned
(15)	Dr. A. B. Arte	Tutor in Pathology	Resigned
(16)	Dr. H. I Desai	Tutor in Microbiology	Resigned
(17)	Dr. (Mrs.) N D Desai	Tutor in Microbiology	Resigned
(18)	Dr. K. K. Sagothiya	Tutor in Preventive and Social Medicine	Resigned
(19)	Dr. Y. B. Chhatbar	Tutor in E.N.T.	Transferred
(20)	Dr. B. V. Merai	Tutor in Anaesthesia	Transferred
(21)	Dr. M. M. Dholakia	Tutor in Radiology	Resigned
(22)	Dr. K. R. Engineer	Tutor in Forensic Medicine	Resigned
(23)	Dr. S. K. Shah	Tutor in Forensic Medicine	Resigned
(24)	Dr. S. M. Mehta	Tutor in Forensic Medicine	Transferred
(25)	Dr. K. M. Kholia	Tutor in Pathology	Resigned
(26)	Dr. N. D. Tilavat	Tutor in Anaesthesia	Transferred
(27)	Dr. Y. B. Chhatabar	Tutor in E,N,T.	Transferred

#### 4. Professional Growth of the Staff

##### (a) Published Articles/Papers :

No.	Name/s subject	Title	Name of the Journal where in published with month of publication
1	2	3	4
1	(1) A. Girdhar (2) V. R. Dhumal (3) O. D. Gulati (4) V. H. Bhavsar (5) K. G. Hemavathi	Effect of raminobutyric acid on the rabi isolated intenzyme	Journal Pharmacol, 33, 614-615, 1981.

1	2	3	4
2	(1) D. N. Gandhi (2) O. D. Gulati (3) K. G. Hemavathi	Blockade of 5-hydroxy-tryptamine included responses of rat saminal vesicle by lithium-possible madiation through calcium exchange	Arch. Int. Pharmacodyn: 253, 22-232, 1981.
3	Pathology : (1) V. Handa (2) R. M. Oza	(i) Eosinophilic Granuloma of Femoral Bone (ii) Gas Gysts of Instatine (iii) Gas Gysts of Instatine	Indian Journal of Medical Research Vol. 78, No. 4 Feb. 18, 1982 pp. 71-72. Journal of the Indian Medical Association, Vol No. 7, October 1, 1982, pp. 118-119.
4	S. B. Patra	Serum Electrophoretic pattern in Amyloidosis Vomplivsyng Pulmonary Tuberculosis	Indian Journal of Medical Res 73, 1981, pp 258-265.
5	(1) S. B. Patra (2) S. V. Jalihal (3) S. V. Jalihal	Epitholoid Leimyosurcoma ("Leinomyoblostoma") of Mesentery. A case Report	Indian Journal of Cancer, Vol. 1, in 1981, pp 301-304.
6	Obstatic and Gynaecology : (1) K. P. Mistry (2) R. V. Bhatt (3) U. J. Modi (4) N. C. Shah	Factors effecting the ammiotic fluid excreatory products	Indian Paediatric, 18; 883-885, 1981 December
7	R. V. Bhatt	(i) Factors effecting ammoniote fluid electrolyte (ii) A two years follow up study of women starlized in India (iii) Pernital Mortality in breech presentation	Indian Journal of Medical Research 75; 248-253, 1982, February Contra ception 23; 603-619; 1981, June.
8	A. B. Khorana	Psychiatric : Acontrol Double blind comparative study of single dose Administration of Imipramine Paramoate and Divided Dose of Imipramine Hydrochloride in Depressive Illness	Indian Journal of Physiology Pharmac 25, 4, 33/- 338, October, December, 1981.

1	2	3	4
<i>Anaesthesia :</i>			
9.	(1) V. N. Swadia (2) S. S. Subnis (3) N. D. Swadia	Anaesthetic management in huge goitr.	British Journal of Anaesthesia Vo. 53, No. 9, year 1981, September, (Pages 963-965).
<i>Foransic Medicine :</i>			
10.	B. V. Subramanyam	Things are not what hey seem	Indian Police Journal October-December, 1981.
<i>Anatomy :</i>			
11.	(1) B. G. Panchamukhi (2) H. C. Srivastava	Histogenesis of the reticular groove of buffalo ( Babalis bubalis Stomach	American Journal of Veterinary Research, Vol. 43, No. 2, Pages 346, 349, 1982

## (b) Published Books and Brochures :

Sr. No.	Name of the Author/s	Name of the Book/Chapter	Name of the publishers
<i>Psychiatry :</i>			
1.	Khorana A. B.	Sex Education in Gujarati	Population Council Baroda, Edited by Dr. Bhasker V. Vyas.

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

Sr. No.	Name of the Teacher/s	of Name, Place and Dates the Conference/Seminar	Title of the Papers presented
1	2	3	4
1.	K. D. Pandya C. A. Desai S. Chandwani A. G. Dadlani	XXVII Annual A.P.P.I. Conference, Ludhiana December, 1981	Pulmonary Venti-lation during normal pregnancy.
2.	M. B. Jani S. Chandwani C. A. Desai	XXVII Annual A.P.P.I. Conference, Ludhiana, December, 1981	Mecmatological changes during normal pregnancy.

1	2	3	4
3.	A. G. Dadlani K. G. Pandya T. K. Das S. Chandwani C. A. Desai G. K. Hathi	XXVII Annual A.P.P.I. Conference, Ludhiana, December, 1981	Diurnal auditory acuity in normal individuals.
4.	T. K. Das K. D. Pandya A. G. Dadlani G. A. Desai S. Chandwani	XXVII Annual A.P.P.I. Conference, Ludhiana, December, 1981	Diurnal auditory assessments in normal young individuals.
5.	D. R. Trivedi C. A. Desai	XXVII Annual A.P.P.I. Conference, Ludhiana, December, 1981	Study of hearing acuity in different age groups.
6.	H. A. Thakkar	Gwalior, 5th November, 1981	Effect of making on Physical Fitness.
<i>Pharmacology :</i>			
7.	S. A. Shetty K. G. Hemavathi O. D. Gulati	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	A study of the sympathomimetic effect of ketamine on rat isolated anococyeus muscle.
8.	A. P. Rajani O. D. Gulati	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	Evidence for dopa-minergic receptors-in anococyeus muscle of rat.
9.	J. D. Bhatt O. D. Gulati	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	Investigation of ethinyl estradiol induced potentiatio of noradrenaline effect in rat isolated vas difference.
10.	S. V. Desai A. P. Rajani O. D. Gulati	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	Projectional effects of cocaine in anococyeus muscle of rat.

1	2	3	4
11.	R. S. Desai O. D. Gulati S. V. Desai	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	Corneal under and its healing by various drugs in the rabbit eye.
12.	R. V. Bhatt O. D. Gulati	XIV Annual Conference of IPS at Bombay on 28, 29, 30 and 31 December, 1981	Investigation of some effects of antazoline on anococcygeus muscle of rat.
13.	K. K. Shah O. D. Gulati K. G. Hemavathi	XXVII Annual Conference of A.P.P.I. at Ludhiana on 28, 29, 30 December, 1981	Some automatic effects of levamisole on isolated anococcygeus muscle of rat.
14.	D. C. Pandya O. D. Gulati K. G. Hemavathi	XXVII Annual Conference of A.P.P.I. at Ludhiana on 28, 29, 30 December, 1981	Anti-spasmodic activity of Ficus glomerata.
<i>Biochemistry :</i>			
15.	S. Srinivasan Mrs. Ranjit Kaur	14-17 November, 1981, Bombay	Changes in serum glycoprotein levels in normal and Alloxan Diabetic Rats in experimental Inflammation.
16.	M. Koicha S. C. Parikh A. G. Patel	Scientific paper read VIII A.C.B.I. Conference held during February, 1982 at AIINS, New Delhi	Biochemical and Microbiological aspects of Rifampicin Bioactivity in Pulmonary tuberculosis patients.
<i>Community Medicine :</i>			
17.	D. N. Shah	(i) Indian Association of Preventive and Social Medicine, 12th Annual Conference, Christian Medical College, Vellore-Tamil-Nadu 6th to 8th January, 1982	(i) Investigation of Outbreaks of Cerebrospinal Meningitis among trainees of Police Training School, Baroda.

1	2	3	4
		(ii) Annual Convention of Integrated Child Development Services, All India Institution of Medical Science, New Delhi-110 029, 4th to 6th February, 1982	(ii) Feltneed impact and Evaluation of integrated Child Development Services in Tribal Block. Parameters for Evaluation of Integrated Child Development Service in Tribal Block.
<i>Obstetrics and Gynaecology :</i>			
18.	R. V. Bhatt	25th All India Congress of Obst. Gynac. in Culcutta, December, 1981	(i) Aetiology of Intrauterine Growth Retardation. (ii) Comparative Study of Hoe 206 for vaginal candidiasis.
19.	M. N. Hazra	(i) XXV All India Obst. and Gynaec. Congress in Culcutta on 28th to 31st December, 1981 (ii) VI All Gujarat Obst. and Gynaec. Congress in Rajkot on 14th and 15th November, 1981	(i) Illegal Induced Abortion. (ii) Genital prolapse with pregnancy. (iii) Hypertensive disorders of pregnancy. (iv) "Caesarean Now and Then".
<i>Orthopaedic :</i>			
20.	P. S. Nagpaul	(i) Annual Conference of the Indian Orthopaedic Association, Srinagar, May, 1981	(i) <i>Leglengthening</i> by Wagner Apparatus

1	2	3	4
		(ii) Conference of the (Orthopaedic Section) Association of surgeons of India, Patha., December, 1981	Evaluation of Spinal Phlebography in Diagnosis of Lumbar Disclesions.
21.	S. R. Trivedi A. J. Vaishnavi	Annual Conference of the Indian Orthopaedic Association, Srinagar, May, 1981	Acquired Quadriceps myofibrosis in Children.
<i>Psychiatry :</i>			
22.	A. B. Khorana	(i) Annual Conference of Indian Psychiatric Society, Madras, January, 1982	(i) Imipramine Pamoate in Depressive Illness.
		(ii) III National and Regional Conference on drug abuse, September, 28 and October, 1981, New Delhi	(ii) Role of Counselling Centres in the University Settings.
23.	P. R. Jha	West Zone Annual Conference of Indian Psychiatric Society, Bombay, 25-26 September, 1981	Comparative study of Haloperidol and E.C.T. in Cotatonic Schizophrenia.
<i>E.N.T. :</i>			
24.	R. B. Udawadia J. R. Desai	Association of Otolaryngologist of India, January, 1982, Hyderabad	Neurogenic Tumour of the Head and Neck. Co-Chairman in the session at the Conference.
25.	R. B. Udawadia	Neuroequilibriomatria Society-International Conference, Bombay, November, 1981	Co-Chairman in conducting session.
26.	Y. B. Chattbar	Neuroequilibriomatria Society-International Conference, Bombay, November, 1981	Paper on news of Ephedrine muscle in cases vertige.
<i>Plastic Surgery :</i>			
27.	Sharma S. N. Sharma P. K.	Conference of Association of Plastic Surgeons of India in September, 1981 at Patiala	The paper "Palmar Split Skin Graft for Finger Tip Awision Injuries.

1	2	3	4
<i>Forensic Medicine :</i>			
28.	B. F. Subrahmanyam	(i) Presented at the Annual Conference of Indian Academic of Forensic Medicine, Madras, February 14-16, 1982	Alcoholoc intoxication—A Clinical study of 1500 cases.
		(ii) A case report presented at the Annual Conference of India Academy of Foransic Medicine, Madras, February, 14-16, 1982.	Endotracheal tube in stomach.
<i>Anatomy :</i>			
29.	P. F. Madon S. S. Akolekar	Annual Conference of All India Society of human genetics, November 27, 28, 1981	A case of Monosomy, '20' mosaicism.
(d) Talks given at difference Universities/Institutions :			
Sr. No.	Name of the Teacher	University/Institutions	Subject of the Lecture
1	2	3	4
<i>Pharmacology :</i>			
1.	O. D. Gulati	(i) Association of Microbiologist of India Baroda on 23-10-1981	Drug Resistance.
		(ii) Society of Biological Chemistry of India at Baroda in November, 1981	Opiods.
2.	K. G. Hemavathi	Tubenration Diabetes Satellite Symposium Baroda	Insulin Reseptors.
<i>Pathology :</i>			
3.	S. V. Jalibal	Case Western Reserve University, Clevelund on 28th October, 1981	Clinical Rabies in India
<i>Department of Surgery :</i>			
4	Dr. G. N. Shukla	Association of Cancer chemotherapy of India—K. G. Medical College, Lucknow	Chemothelaphy of Lymphoma's with special reference to trible Population ( Chavied the Session of Annual Organisa-tion )

1	2	3	4
<i>Community Medicine :</i>			
5	D. N. Shah	(i) M.G.M. Medical College, Indore Medical Student and Teachers on 7-7-1981 (ii) Workshop on Health Education in Hospital Government Dental College, Ahmedabad, 24th and 25th August, 1981 (iii) Leprosy Orientation Camp for Medical Internce and students Spiritual Life Centre Bharuch on 5th and 6th December, 1981 (iv) All India Museum Curator and Museum Director Seminar to Celebrate Silver Jubilee of Health Museum-Municipal Corporation, Baroda—S.V.P. Planetorium 28th December, 1981 (v) The Institution of Engineers (India) and Indian Water Work Association, Vadodara at Kala Bhavan, on 12-2-1982	Environment sanc- tion Ecological Balance. Review of existing conditions and recources available for health education in Hospitals. History satistics and Epidemiology of Leprasy. Role of Health Museums in Enviro- mental Education. Environmental Sani- tation and Ecologi- cal Balance.
<i>Plastic Surgery :</i>			
6.	S. N. Sharma	Summer (National) Conference of Association of Plastic Surgeons of India, September, 1981 at Patiala	Some aspects of Reconstructive Rhino Plastic.
(e) <i>Participation in Inservice Programme :</i>			
<i>Surgery :</i>			
1.	Jayshree P. Mehta	Biannual International Conference of International College of Surgeons, February, 1982, New Delhi	Participant.

(f) *National Awards :*

- Dr. O. D. Gulati received the following Honors and Awards I
  - Shri Amrut Mody Research foundation Award for the year 1979 (Awarded in October, 1981).
  - Dr. B. C. Roy Research Found Award for the year 1981 (Awarded in March, 1982) for developing the speciality of Autonomic Pharmacology at Medical College, Baroda.
- Dr. G. N. Shukla received the following Awards :  
Awarded Fellowship of International College of Surgeions ( F.I.C.S. ).
- Dr. (Miss) Jayshree P. Mehta Awarded the following fellowship :  
Awarded the fellowship of International College of Surgeon. (F.I.C.S.)
- Received S. S. Misra Memorial Award by National Academy of Medical Sciences ( India ) for the best ( unpublished ) research paper entitled " Study of some Pulmenary Function tests during normal pregnancy " for the year 1981-82. Research was conducted by Mr. K. D. Pandya under the guidance of Dr. C. A. Desai and Dr. ( Mrs. ) S. Chandwani.

6. *Highlights of the year**Anatomy Department :*

- The department was awarded " DHARAMNARAYAN " shield for its Research record for 1981-82.
- The Cytogenetic Laboratory established in the Department two years ago provides diagnostic facility in cases of Genetic disorder. During the year the Laboratory acquired the form of a broad based diagnostic centre, reporting in cases of Leukemia, congenital defects, Infertility etc. currently, three Research projects are being conducted financed by extra mural Research Grants. The principal archetect of this set up are Dr. H. C. Srivastava and Mrs. P. F. Madon. Presently, the work is being carried out by Dr. S. S. Akolekar and Mr. D. Master.

**Medical College Library**

<i>Library</i>	<i>For the Year 1981-82</i>
1. Present Book Stock	26,800
2. Journals subscribed for the year	170
3. Budget	75,000

4. Books added during the year	570
5. Total amount spent for books and journals	1,40,000
6. No. of Staff —Qualified	5
—Unqualified	1
(a) Mrs. Hansa J. Trivedi	
(b) Mr. S. K. Patel	
(c) Mr. K. P. Bhatt	
(d) Miss S. D. Kanitkar	
(e) Mr. R. R. Patel	

**Particulars :**

1. Average No. of students making use of the library and or the reading room daily	450
2. Average No. of teachers making use of the library and or the reading room daily	70
3. Total No. of books issued to students during the year	60,000
4. Total No. of books issued to teachers during the year	7,000

**Library Hours :**

On all working days	9-00 a.m. to 10-00 p.m.
Saturday	9-00 a.m. to 9-00 p.m.
Sunday	12-00 a.m. to 7-00 p.m.
(Six weeks before annual examination)	
Vacation	10-30 p.m. to 5-30 p.m.

## CHAPTER XI-(B)—SHETH UJAMSHI PITAMBERDAS AYURVEDIC RESEARCH UNIT

**1. Function of the Unit**

Research in Ayurveda is the sole object of the Unit. The Unit has a library, a museum of Indian Medicinal herbs and minerals a Rash-Shala and an Out-patient Department. Beds for Ayurvedic Clinical Research are made available by an Honorary modern physician attached to the Unit.

**2. Staff**

The staff of the Unit consists of one Honorary Head, one 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****(1) Rash-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 Rash-Shala.

**(2) 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 effects in all of 15 patients with dry cough as judged from the reduction in the frequency of coughing. The work is in progress.

(ii) Clinical study of *Azadirachta indica* (Neem) in dry eczema. Powdered inner bark of *Azadirachta indica* was administered to patients in capsules for internal use. 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 (18 patients) received only capsules and the third group (59 patients) received both oil application and capsules orally. Patient compliance was poor in the first group. Satisfactory results were obtained in the second and third groups. The work is in progress.

(iii) Clinical study of *Ficus glomerata* (Udamber) in dyspepsia. Powdered fruit of *Ficus glomerata* administered orally in capsules (450 mg) three times daily was found to be effective in 13 cases of dyspepsia. It had no beneficial effect in patients with peptic ulcer. The work is in progress.

(B) (i) Anti-spasmodic activity of *Ficus glomerata* (F.G.) Country fig; Hindi—Gular; Gujarati—Umardo. In preliminary clinical trial it was observed that the powdered dried fruit of FG relieved abdominal pain in the patients of dyspepsia. The research was carried out to investigate the pharmacological action of the aqueous extract of FG, on isolated guinea pig ileum.

It is suggested that the antispasmodic effect of FG may be due to its anticholinergic, anti-histaminic and anti-5HT effect. The work is concluded.

(ii) Anti-gastric ulcer activity of Tamra Bhasma in rats. Tamra Bhasma obtained from Gujarat Ayurved Vikas Mandal, Junagadh was shown in our laboratory to exert anti-gastric ulcer activity (both curative and prophylactic) against gastric ulcer induced by dexamethasone in female albino rats. The effect was dose-dependent (7.5 — to 120 mg kg). The work is in progress.

(iii) Hypolipidaemic effect of Shuddha guggul. Guggul has been reported to lower various lipid levels of plasma. Most of the known hypolipidemic agents lower one component of the plasma lipids with concomitant 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 rabbits and the results showed both serum cholesterol and triglyceride levels were lowered. The work is in progress.

#### 6. General Ayurvedic O.P.D.

During the year 27,248 old cases and 1,346 new cases were registered in the O.P.D. of the Unit. The total no. of patients for the year was 28,594.

#### 7. Professional Growth of the Staff

A paper Anti-spasmodic activity of *Ficus glomerata* was read by D.C. Pandya at 27th Annual Conference of A.P.P.I. at Ludhiana on 26th December, 1981.

## CHAPTER XII—FACULTY OF TECHNOLOGY AND ENGINEERING

### 1. Courses of Studies

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

### 2. Number of Students

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

	Men	Women	Total
(a) Diploma	163	—	163
(b) Degree	2,828	241	3,069
(c) Post-graduate Diploma	3	—	3
(d) Post-graduate Degree	224	18	242
(e) Ph.D.	43	4	47
<b>Grand Total</b>	<b>3,261</b>	<b>263</b>	<b>3,524</b>

### 3. Staff

#### (a) Present Position :

During the year the staff of the Faculty consisted of 31 Professors, 1 Professor of Training and Placement, 54 Readers, 127 Lecturers, 1 Junior Instructor, 27 Teaching Assistants, 6 Visiting Professors, 10 Visiting Lecturers, 199 Class III and 99 Class IV employees.

#### (b) New Appointments :

(1) Shri P. V. Darji	Lecturer in Applied Mechanics
(2) Smt. M. T. Khisti	Lecturer in Applied Mechanics
(3) Shri P. K. Panchal	Lecturer in Civil Engineering
(4) Shri A. R. Shah	Lecturer in Civil Engineering
(5) Smt. S. A. Kanitkar	Lecturer in Electrical Engineering
(6) Smt. Hemamalini Khurana	Lecturer in Electrical Engineering
(7) Shri K. G. Chokshi	Lecturer in Electrical Engineering
(8) Smt. Santha Mani	Lecturer in Mechanical Engineering
(9) Shri P. K. Jain	Lecturer in Mechanical Engineering
(10) Shri P. S. Patel	Lecturer in Metallurgical Engineering
(11) Shri P. B. Joshi	Lecturer in Metallurgical Engineering
(12) Shri S. K. Dutta	Lecturer in Metallurgical Engineering

(13) Shri S. D. Bhattacharya	Lecturer in Textile Chemistry
(14) Dr. N. D. Jadhav	Lecturer in Applied Chemistry
(15) Shri D. D. Pathak	Lecturer in Architecture
(16) Shri V. U. Matai	Lecturer in Architecture
(17) Smt. S. N. Gupte	Lecturer in Architecture
(18) Dr. Nandula Subramaniam	Professor of Chemical Engineering
(19) Shri A. K. Bagchi	Lecturer in Chemical Engineering
(20) Shri K. K. Hathi	Lecturer in Chemical Engineering
(21) Shri J. K. Bhatt	Lecturer in Textile Chemistry

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

(1) Shri D. K. Basa,	Reader in Metallurgical Engineering
Lecturer in Metallurgical Engineering	
(2) Shri M. H. Divekar,	Reader in Chemical Engineering
Lecturer in Chemical Engineering	

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

(1) Shri P. J. Roychowdhary	Reader in Metallurgical Engineering
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### 4. Professional Growth of the Staff

#### (a) Articles/Papers Published :

Sr. No.	Name	Title	Name of the Journal wherein published with month of publication
(1)	Piyush Parikh and M. C. Gandhi	Analysis of Diaphragm wall by Finite Element Method	Science and Technology, University Research Journal, January, 1982.
(2)	Piyush Parikh and A. V. Shroff	Consolidation behaviour of Clays under Cyclic loadings	Science and Technology University. Research Journal, January, 1982.
(3)	A. V. Shroff and P. S. Moghe	Use of Silica gel for injecting sandy foundations	Navnirman, P.W.D. Research Journal, Vol. XXI, No. 2.
(4)	A. V. Shroff and D. L. Shah	Discussion of Resorcinolic grout for injecting sandy foundation	Journal of Geotechnical Engg. Dn. of ASCE, Vol. 107, GT 11, November 1981.

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|---|---|--|---|
| (5) R. D. Bhatt and O. H. Patel                     | A case study of Research Areas  | Indian Highways, (India Road Congress Publication) October, 1981, Vol. 9, No. 10, (Page 105-110).                    |   |
| (6) S. A. Puranik                                   | (i) Extraction of Pure aromatics in a packed column   | 34th Annual Session of Indian Institute of Chem. Engineers, Pre-prints of Papers Vol. 1, p. 20, December, 1981.      |   |
|   | (ii) Utilization of agricultural, agro industrial and forest waste  | 34th Annual Session of Indian Institute of Chemistry Engineers, Preprints of Papers Vol. IV, p. 59, December, 1981.  |   |
|   | (iii) Enthalpy concentration diagrams for dimethyl sulphoxide water system                                      | 34th Annual Session of Indian Institute of Chemistry Engineers, Preprints of Papers, Vol. III, p. 4, December, 1981. |   |
| (7) V. L. Gadgeel, N. M. Shah and R. R. Vishwakarma | Investigation of an out board elbow failure   | 'Corrosion and Maintenance October-December, 1981, Vol. 4, No. 4, p. 391.  |   |
| (8) Y. K. Agrawal and S. A. Patel                   | (i) Rapid Extraction and Spectrophotometric determination of Tentalum with N-p-Chlorophenylbenzohydroxamic acid | Bull. Soc. Chem. Belg. 90, 17, (1981).   |   |
|   | (ii) Extraction and Spectrophotometric Determination of Zirconium with N-P-Chlorophenyl                         | Bull. Soc. Chem. Belg. 90, 1039, (1981).   |   |
| (9) Y. K. Agrawal and V. N. Garg                    | Studies on Arsenic Oxides : Thermal Analysis of Arsenic Oxide in Air Nitrogen and Argon                         | Thermochim. Acta, 44, 227 (1981).  |   |

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| (10) Y. K. Agrawal and R. K. Jain                              | (i) Application of p-substituted Cinnamohydroxamic Acids to the Spectrophotometric Determination of Molybdenum (VI) |   | Groat. Chem. Acta. 54, 249, (1981).              |
|  | (ii) Analytical Application of p-substituted Cinnamohydroxamic Acids for Determination of Vanadium (V)              |   | Ann. Chim. 601 (1981)                            |
| (11) A. K. Shah, Y. K. Agrawal and S. K. Banerjee              | Spectrophotometric Determination of Thiacetazone  |   | Anal. Letters. 14 (5), 363 (1981).               |
| (12) Y. K. Agrawal and S. K. Patke                             | Extraction and Spectrophotometric Determination of Antimony in the environment                                      |   | Intern. J. Environ. Anal. Chem. 10, 175 (1981).  |
| (13) Y. K. Agrawal and G. D. Mehd.                             | Determination of Vanadium with Chlorosubstituted Hydroxamic Acids for Photometric and Atomic Absorption             |   | Intern. J. Environ. Anal. Chem. 10, 183, (1981). |
| (14) Y. K. Agrawal and S. P. Chudasma                          | Extraction and Spectrophotometric Determination of Palladium (II) with N-p-Chlorophenyl-benzohydroxamic acid        |   | Bull. Soc. Chim. Belg., 90, 1033 1981.           |
| (15) L. S. Trivedi and K. K. Rao                               | Production of Cellulolytic enzymes by <i>Fusarium</i> Sp.   |   | Biotechnology letters (U.K.), 3, 281, 1981       |
| (16) V. Narayan, K. K. Rao and N. N. Rao                       | Fermentative Production of Nucleotides by <i>N. Cress</i> .   |   | Indian Journal of Microbiology, 21, 33, 1981.    |
| (17) K. K. Rao and A. R. Gupta                                 | The influence of certain factors on the production of Ergot alkaloids by <i>A. Fumigatus</i> .                      |   | M. S. University, Journal, 1981.                 |
| (18) V. Narayan and K. K. Rao                                  | The effect of lipids and other substances on the production of Ergot Alkaloids by <i>A. Fumigatus</i> .             |   | Indian Journal of Microbiology, 21, No. 2, 1981. |
| (19) A. K. Nehate, R. V. Joshi, S. P. Kathuria and T. R. Joshi | Beta Radiation Dosimetry using NaCl; T1 (T) Thermoluminescent Phosphor  |   | Radiation Effects Tol. 00.11.III, 1982.          |
| (20) B. S. Prasada and Reddy, R. V.                            | Fluorescence Spectra of lightly and Heavily Doped -NH <sub>4</sub> Cl:Tl  |   | Z. Naturforsch., 379, p. 1283, 1982.             |

1	2	3	4
(21)	R. V. Joshi, T. R. Joshi, S. P. Kathuria and K. P. Dhake	Thermoluminescence of NaCl:CA and its use in gamma Dosimetry	Health Physics, 1982.
(22)	R. V. Joshi and J. G. Nene	(i) Complex Ion Centres in Heavily doped NaBr:Tl Phosphors (ii) Centres responsible for Near Uv emission in NaBr:Tl (iii) Dimer centres in variously pretreated thallium doped sodium halides	Z. fur Krist. 157, 167 (1981). India Journal Pure and Apply. Phys. 19, 1093 (1981). Z. fur Physik B. 45, (1982).
(23)	J. M. Lohar	(i) Schiff's base Homologous series of New Mesogens: (p (p'-n- Alkoxy-cinnamoyloxy benzy- lidene p''-N, N-Dimethyl- lamino anilines and p-(p'-n- Alkoxy-cinnamoyloxy) benzy- lidene-p''-N, N-Diethylamino anilines (ii) Mesomorphic characteristics of Thermotropic Mesogens p- P'-disubstituted Phenyl Cin- namates I:p-(p'-N-Alkoxy cinnamoyloxy Acotophenones	Mol. Cryst. Liq. Cryst., Vol. 70. Vol. 70 (1-4) 619 (1981)
(24)	A. K. George, R. A. Vora and R.K.L. Padmini	Ultrasonic Studies in Poly- morphic : Smectic Liquid Cry- stals	Acustica, 47, 149 (1981).
(25)	R. A. Vora and Renu Gupta	A homologous Series contain- ing ester and amide groups as central linkages : 4 (4'-n-alko- xybenzoyloxy)-4''-n-heptyloxy- benzanilides	Mol. Cryst. Liq- uid Cryst. 67, 215 (1981)
(26)	R. A. Vora and Nilesh Dixit	Mesogens having positive di- electric anisotropy II : 4(4'-n- alkoxybenzoyloxy -2- methyl-2'' chloro-4''-nitroazobenzenes,	Mol Cryst. Liq- uid Cryst. 67, 182 (1981)

1	2	3	4
(27)	V. S. Pramdar	Origin of the North Indian Sikhara form	Commemoration Vo- lume of K.P. Jaiswal Institute, Patna, 1981.

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

Sr. No.	Name of the Teacher	Name, place and Date of the Conference/Seminars	Title of the paper presented
(1)	R. D. Bhatt and O. H. Patel	National Symposium on Binder Economy and alternate binders in Road and Building Con- struction 1981, held on 3rd and 4th November, 1981 (Organised by Central Road Research Institute, New Delhi)	A case study of Research Areas on Road Materials.
(2)	S. A. Puranik	(i) Symposium of 'Advances in Science and Technology of Mineral Beneficiation, Hydera- bad, December, 3-5, 1981. (ii) 34th Annual "Session of Indian Institute of Chem- ical Engineers, Madras, 16-19, December 1981	(i) Recent Ad- vances in the field of flotation, ses- sion IV, P. 54. (ii) Guidelines for the Design of the flotation Cell, Ses- sion-VI, P. 98. (i) Extraction of Pure aromatics in a packed column. (ii) Utilization of Agricultural agro- industrial and forest waste. (iii) Enthalpy con- centration dia- grams for dime- thyl sulpho- xide -Waste sys- tem.

1	2	3	4
(3)	K. Ethirajulu and N. M. Surana, A. N. Roy	34th Annual Session of Indian Institute of Chemical Engineers, Madras, 16-19 December, 1981	Liquid-Equilibrium Studies-Selectivity improvement of DMF in Aromatic Extraction.
(4)	K. Ethirajulu, A. N. Thakre and A. N. Roy	34th Annual Session of Indian Institute of Chemical Engineers, Madras, 16-19 December, 1981	Co-current mass-transfer, Studies in a packed column.
(5)	N. Subramanyam	National Symposium of Biotechnology 15th March, 1982, Chandigarh	Manufacture of Alcohol in India.
(6)	V. L. Gadgeel, N. M. Shah and R. C. Prajapati	Seminar, 'Metallurgical Problems of Thermal power plants' I.I.M., Baroda, January, 1982	Role of Failure Analysis in problem Solving in Thermal Power Plants.
(7)	N. S. Sundar Murti, S. K. Dutta and V. L. Gadgeel	Symposium 'Advances in Metallurgical Research' December, 26-27, 1981, Kharagpur	'Swelling Characteristics of Iron Oxide during reduction with hydrogen'.
(8)	K. K. Rao	(i) 22nd Annual Conference of the Association of Microbiologists of India, Lucknow, November, 5-7 1981	(i) Enzymes involved in Lignin degradation. (ii) Studies on some of the properties of <i>P. aeruginosa</i> phages Isolated from sewage. (iii) Production of Celluloses by some fungi. (iv) Studies on the production of Ergot alkaloids by <i>A. fumigatus</i> in a chemically defined medium.

1	2	3	4
		(ii) 50th Annual Meeting of Society of Biological Chemists of India, Baroda, November 13-15, 1981	(i) Properties of <i>P. aeruginosa</i> phase isolated from sewage (ii) Production of ergot alkaloids by <i>A. fumigatus</i> . (iii) Antibiotic produced from a <i>streptomycete</i> (vi) Studies on the production of celluloses by some fungi
(9)	Dr R. V. Joshi	(i) XIII National Seminar on Crystallography, Nagpur, February, 1982	(i) Thermally and Deformation Induced Fluorescence. (ii) Fluorescence Spectra of lightly and Heavily doped $\text{NH}_4 \text{C}_1 : \text{T}_1$ .
		(ii) XIII National Seminar on Crystallography, Nagpur, February, 1982	(i) Excitation and Omission spectra of heavily doped KCL Sr. Phosphors. (ii) TL Studies of 470°K Phosphorescence Centre.
(10)	R. V. Joshi N. L. Kekan	XIII the N.S.C., Nagpur, February, 1982	Excitation and Omission Spectra of Undoped KCL.
(11)	A. M. Talati	Presented at Annual Convention of Chemists, December, 1981, Madras	Ion Exchange resins.

1	2	3	4
(12)	R. A. Vora and Nilesh Dixit	"Fourth International Symposium on Liquid Crystals and Ordered Fluids". A.C.Meeting, March, 1982, Las Vegas, U.S.A.	Mesogenic Benzanilides II.
(13)	R. A. Vora, Nilesh Dixit, G. D. Karadkar and R. G. Patel	Presented at 13th National Seminar on Crystallography March-1982, Nagpur	Mesomorphic Polymers-I : Some Polymerization of p-hydroxy benzoic acid.
(14)	R. A. Vora and Renu Gupta	Presented at the Annual Convention of Chemists, December, 1981, Madras.	Liquid Crystals with positive dielectric anisotropy-III.
(15)	V. S. Pramdar	International Seminar in September 1981, Bombay Organised by Max Muller Bhavan, British Council and Museum Society on "Architectural Decoration of Traditional Buildings in India".	Wooden facades in Traditional Gujarati Houses.
(16)	S. V. Deshpande	(i) Participated in Workshop on 'Passive Cooling Techniques Jyoti Consultants'—I.I. Architects, and I.I. Engineers, Baroda—19-12-1981 (ii) Participated in Seminar on 'Rural Development through Urban Development', Vadodara Urban Development Authority (VUDA), Baroda, 3-1-1982	Relevance of Planning and Building Legislating in Passive Cooling.  A talk on concepts of Urbanization.

(c) Talks given at different Universities/Institutions

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
(1)	S. K. Damle	(i) Gujarat Engineering Research Institute, Staff Training College, Baroda on 14-4-1981 (ii) College of Engineering, Faramgudi, Goa, on 23-2-1982, 24-2-1982 and 25-2-1982	"Substructure of bridges including bearings".  Design of Multistored Building frames (Series of eight Lectures).

1	2	3	4
(2)	Piyush Parikh	(i) Seminar on Dam Safety Guj., Engg. Research Inst., Baroda on 15-6-1981 (ii) Institution of Engineers, Ahmedabad Centre, on 15-1-1982 (iii) Staff Training College, C.D.O., Gandhinagar, on 15-4-1981 (iv) Workshop on Grouting Technology, Gujarat Engg. Res. Inst., Baroda, on 2-2-1982	Failure of Titon Dam.  Failure of Malpasette Dam.  Modern concepts in design of dams.  Case of failure or not? —Titon Dam— Mix Design.
(3)	V. S. Thattey	Workshop on Concrete Dams, Guj. Engg. Res. Inst., Baroda, on 25-2-1982	Design of Coarse and Fine Grouts.
(4)	A. V. Shroff	Workshop on Grouting Technology, Guj. Engg. Res. Inst., Baroda, on 28-1-1982	Foundation Engineering (Series of eight lectures).
(5)	R. M. Bhagia	College of Engineering Faramgudi, Goa on 24-2-1982, 25-2-1982 and 26-2-1982	(i) Silt regulation works at Head Works, (ii) Principles of Design of Canal works and Design of Canal Falls.
(6)	P. M. Modi	Training Classes of Asstt. Engineers, Sub-Engineers and Overseers conducted by S.E. Narmada Project Canal, Distribution System Circle No. 1, Vadodara	(i) Engineering Hydrology and Water Planning for Irrigation Projects. (ii) Steady Flow in Open Channels.
(7)	N. C. Shah	Training Classes of Asstt. Engineers, Sub-Engineers and Overseers conducted by S.E. Narmada Project Canal, Distribution System Circle No. 1, Vadodara	Environmental conservation and pollution control.
(8)	M. R. Thakkar	Nature conservation camp sponsored by Department of Forest, Govt. of Gujarat and World Wild Life Fund	

1	2	3	4
(9) G.S. Parthasarthy	Training Classes of Asstt. Engineers, Sub-Engineers and Overseers conducted by S.E. Narmada Project Canal, Distribution System Circle No. 1, Vadodara	Design and Construction of Earth Dams	
(10) S. A. Puranik	L. D. College of Engineering, Gujarat University	Utilization of agro-waste.	
(11) V. L. Gadgeel (4 Lectures)	Goa Engg. College	Failure Analysis and Maintenance of Heavy Mining Machinery 'Metallographic aspects'.	
(12) S. K. Agrawal	I.S.T.E., Winter School on 'Foundry Technology in November, 1981	Role of Additives in Foundry Moulding Sand.	
(13) K. K. Rao	Bombay University Centre for Post-graduate Institution of Research, Goa	Regulatory Mechanisms involved in the Biosynthesis of Ergot Alkaloids.	

### 5. Faculty Union Activities

(iii) The Faculty has a stock of 23 films on various subjects of educational interest and also 14 strips of 35 mm. films. Every year additional films are taken on loan for use from various Organisations. 15 films were shown during the months of July, 1981 to January, 1982.

### 6. Library

The reading room of the Library has sitting accommodation for 130 Readers. Books for reference are issued between 8-00 a.m. to 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 them are given below :

Particulars	Number
(i) Average number of students making use of Library and/or reading room daily	1000

- (ii) Average number of teachers making use of the Library and/or the reading room daily 240  
 (iii) Total number of books issued to students per day 320

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

Particulars	Books	Number Bound Periodicals	Cost in Rs.
(i) Books (Including) Back numbers of Journals as on 1-4-1981.	55,245	9,350	35,06,331
(ii) Books added during the year upto 31-3-1982.	1,224	332	2,08,635
(iii) Books as on 31-3-1982	56,469	9,682	37,14,966

### 7. Training and Placement Activities

Training and Placement Activities and guidance in related areas were gradually enhanced during the year under report. However, the training programme schedules and related activities were adversely affected by uncertain situation in the State during the year.

#### (i) Practical Training :

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

259 students were deputed for practical training during summer vacation for a period of approximately four weeks.

19 Chemical industries, 21 pharmaceutical industries and research/testing laboratories, 14 mechanical engineering industries, 20 electrical engineering industries, 20 electronics industries, 20 metallurgical engineering based industries, 39 textile industries and 11 textile chemistry and allied organizations offered training facilities from a total of 629 industries contacted for the purpose.

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

#### (ii) Employment Opportunities :

##### (a) Campus Interview :

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

Several companies had planned to visit us, but the visits had to be cancelled owing to the uncertain situations/prevaling in the State.

In all 15 companies visited the Faculty and conducted interviews of 438 students, spread over 23 days. On the other hand, 8 companies could not visit us due to troubled conditions and the remaining interviewed students at their premises. Students interviewed were selected from a much larger section of students who appeared for the tests/furnished biodata.

(b) A large number of companies, organizations, laboratories and educational institutions published their requirements, requested 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. Out of eligible students who filled up the forms, several were selected for the Services Selection Board Interviews. The Naval Officers took the opportunity to talk to the students on 'The Role of Engineer in Navy'.

(iii) Co-operative Courses leading to B.Tech. Degree in Mechanical, Electrical and Metallurgical Engineering.

Batches already admitted to the modified pattern of the course continued during the year under report. It may be noted that students under this programme 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. Twenty-two students completed the 2nd phase of training in July-August 82 and entered the final phase of training in December, 1982). A modified pattern of this course is under consideration of the Government of India in the light of switching over to a 4-year degree programme.

(iv) *Quality Improvement Programme :*

Short Term (Summer) Quality Improvement Programme, Western Region, Government of India, Bombay: It was proposed to depute three staff members, from Mechanical Engineering Department under the scheme for 3 months training at different industries. However, uncertain schedules and delays prevented the fulfillment of the programme.

(v) *Guidance :*

Students availed themselves of this facility by discussing their employment/training and related problems and sought guidance in the matter. The professor

in charge of these activities participated in a career guidance seminar conducted for students of standard 10 and 12 and their parents. The seminar was held under the auspices of Baroda Jaycees. Officers of the Vocational Guidance Bureau of Government of Gujarat, also participated.

#### **Institutional Consultancy Projects**

(i) Tairo High Production Roller Ginning Machine with seed Reclaimer : M/s. Gujarat State Co-operative Cotton Marketing Federation Limited, Ahmedabad has sponsored the above project which is estimated to cost of Rs. 1.5 lakhs. The design work is almost over and development work has been started. First model of 18" Roller Ginning Machine will be ready in the month of July, 1982.

Brief description of the TAIRO High Production Roller Gin : Proposed design of TAIRO High Production Roller Gin will be 40" long and all parts will be mounted on a cast iron frame. There are three main parts viz. Ginning Roller, Stationery Knife and Rotary Knife.

(ii) *Flatless Card :*

The above project was sponsored by Government of Gujarat and the grant was continued for the second year. Extra licker-in-rollers were designed and manufactured at TAIRO workshop and installed on the Flatless carding machine and trial was taken with different cotton and man-made fibre laps.

(iii) *TAIRO Miniature Laboratory Spinning Plant :*

One more experimental model is installed at M/s Gokak Mills, Karnataka State. In this Roving frame many changes in the mechanism are incorporated. TAIRO has also designed and developed one Miniature Card and one Draw frame for its laboratory use. Carding Machine is mounted with metallic wires.

(iv) *TAIRO Heald Testing Machine :*

As per suggestion given by Indian Standards Institution, members of TDC : 29.4 Committee, several changes were made in the design of the Heald Testing machine and new machine was developed. After making the changes trials were taken with different types of Healds and results were tabulated.

(v) *Multy Cylinder Sizing Machine :*

Multy Cylinder sizing machine having various technical specifications was designed. One of the leading textile mills has shown interest to install the TAIRO Multy Cylinder Sizing Machine.

## 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 various classes during the year 1981-82 was as under I—

Year/Class	Men	Women	Total
(A) Diploma :			
1st Year	11	2	13
2nd Year	38	9	47
3rd Year	27	4	31
2nd Year Specialization (Old Course)	6	1	7
4th Year	13	8	21
3rd Year Specialization (Old Course)	16	2	18
Total	111	26	137
(B) Post Diploma :			
Junior	12	2	14
Senior	14	1	15
Total	26	3	29
(C) Degree :			
1st Year	24	42	66
2nd Year	17	10	27
3rd Year	18	9	27
4th Year	13	7	20
3rd Year Specialization (Old Course)	15	7	22
Total	87	75	162
(D) Post Graduate Degree :			
Junior	16	11	27
Senior	21	18	39
Total	37	29	66
(E) Ph.D.			
	6	2	8
Total	6	2	8
Grand Total	267	135	402

## 3. Staff :

## (a) Present Position :

The Staff of the Faculty including Museology Department consisted of 3 Professors, 6 Readers, 23 Lecturers, 1 Archivist, 1 Taxidermist, 2 Technicians, 1 Printer, 1 Technical Assistant, 9 Class III and 18 Class IV th employees.

## 4. Professional Growth of Staff :

## (a) Published Articles/Papers :

Sr. No.	Name of the Teacher	Title	Name of the Journal, wherein published with month of publication
1.	G. M. Sheikh (Co-Author)	(i) Catalogue of K. G. Subramanyan Retropective Exhibition—Bhopal, February, 1982	Bharat Bhavan, M. P. Government, Bhopal, February, 1982.
		(ii) Translation of his Gujarati Prose—Published in English	ASPECT—Australia, Sydney, August 1981.
2.	Ratan Parimoo	(i) Dated Ragamala from Radhanpur (Mesakarma and Muftahusarur)	Journal of the Oriental Institute, Baroda, Vol. XXX March-June-1981, No. 3-4.
		(ii) Kaliya Daman Ceilings from Gujarat Temples	KALAKSHETRA—Quarterly Vol. IV—Madras, No. 2, 1981.
		(iii) More Paintings from the Deogarh Thikana	LALITKALA (Ancient) No. 20, New Delhi, March—1982.
		(iv) Ashta-Maha-Pratiharya Prastav, EK Murti Vishay9k, Paricharya	KALA'TRAIMASIK (Hindi) Lucknow, 1901.
		(v) Myself My Art and Indian Art	ARTRENDS, Madras, XVI, Vol. XV, July 1980 to 1981, Vol
		(vi) A World without Horiyou Paintings of Ratan Parimoo by Jagdish Shivpuri	LALITKALA CONTEMPORARY, No. 29.
3.	Vinay Trivedi	(i) Biographical Sketch along with Paintings 4 Drawing	'KALADARSHAN' jarat" 31st August, 1981, Ahmedabad.

4 (b) *Published Books and Brouchers* :—

Sr. No.	Name of the Author/s	Name of Books	Name of Publisher
1	Ratan Parimoo	'Life of Buddha' in Indian Sculpture	New Delhi, March, 1982

(c) *Papers Presented at All India Level Seminars, Conference, etc* :—

Sr. No.	Name of the Teacher	Name, Place and Date of Conference/Seminar	Title of the Paper presented
1.	Ramesh Pandya	Centre of Education, University of Delhi, March, 1982	"Evaluation of Visual Art, Programme in the State Arts Schools"
2.	V. H. Bedakar	(i) "All India Museum conference and Seminar, Department of Museology, December, 1981 Baroda (ii) Seminar on 100 Years of a painting in India, M. P. State, Department of Archiology and Museum, Bhopal December, 1981 (iii) Aspect of the Techniques in the Indian Arts" Indian Association of Art Historians and the Sarabhai Foundation, Ahmedabad, January, 1982	"Role of Museums in the Environmental Education" Indian Rockshelter Painting—Their significance Line A a Technical component—What it is and what it is not
3.	Ratan Parimoo	(i) Seminar on A "100 Years of Discovery of Rock Paintings in India" M. P. State Department of Archaeology and Museums, Bhopal, December, 1981 (ii) Aspect of Techniques in the Indian Arts—Organised by Indian Association of Art Historians and the Sarabhai Foundation, Ahmedabad—January, 1982	Drawings from the Indian Pre-Historic Rock Shelters. Technical Innovations of the Bengal School.

Sr. No.	Name of the Teacher	University/Institution	Subject of Lecture
(D) <i>Talks and Demonstrations Given At Different Universities/Institutions</i> :—			
1.	Jyoti Bhatt	(i) Rajasthan Government School of Art, Jaipur (ii) Rajasthan Lalitkala Akademi, Jaipur (iii) Department of Fine Arts, Rajasthan, Jaipur (iv) Department of Fine Arts, Banasthali Vidyapith, Rajasthan	Demonstrations, Slide Shows, Talks on Printmaking. Demonstrations, Slide shows, talks on Printmaking. Demonstrations, Slide shows, talks on Printmaking. Demonstrations, Slide shows, talks on Printmaking.
2.	Ramesh Pandya	(i) Orientation Course for teachers of Higher Secondary School, Gujarat arranged by Ministry of Education, Government of India, General Education Centre, M.S.U. of Baroda (ii) Contemporary Art Gallery, Ahmedabad (iii) Rajasthan School of Arts and Crafts, Jaipur	Application of Painting. Chanoad Murals. Latest Trends in Art, U.S.A.
3.	V. K. Bhatt	(i) Gujarat Lalitkala Akademi, Ahmedabad, 28th July, 1981 (ii) Department of Mistic, Allahabad University, 13th and 14th November, 1981 (iii) Orientation Course, for teachers of Higher Secondary School, Gujarat arranged by Ministry of Education, Government of India, General Education Centre, M.S.U. of Bardda	Cuban Graphics. Aesthetic Approach to Indian Art. Essentials and History of Indian Painting. Ravindra Sangeet with Demonstration.

1	2	3	4
4. Ratan Parimoo	Orientation Course for teachers of Higher Secondary School, Gujarat arranged by Ministry of Education, Government of India, General Education Centre, M.S.U. of Baroda	(i) Application of Sculpture.	

(E) *Participation in Inservice Programme :—*

1. *Jyoti Bhatt :*

- (i) Participated in postal workshop at Garhi Studio, Lalit Kala Akademi, New Delhi and at ROOPANKAR MUSEUM, Bhopal, M.P.
- (ii) Member of selection and judging Committee for All India Exhibition of Drawings and Graphic Arts, organised by ATUL, Ahmedabad.

2. *Ramesh Pandya :*

- (i) Invited as an observer at the Garba Seminar cum workshop at Gandhi Nagar, 25th to 29th August, 1981, organised by the Youth Services and Cultural Activities, Government of Gujarat.
- (ii) Appointed as a member, General Council of Gujarat State Lalit Kala Akademi, 1981 and 1982.
- (iii) Invited to work on panel of Inspection of the Art School in Gujarat, by the Education Department, Gujarat Invited to work on a similar panel for the women's Polytechnique, Surat.  
Invited to work on the Committee for Reframing their Art courses.

3. *Jeram Patel :*

- (i) Elected member from All India Artists constituency for Lalit Kala Akademy, for a period of four years.
- (ii) Invited to design Stamp for *Asiad Games* 1982.
- (iii) Designed catalogue of Museum of Modern Art, Bharat Bhavan, Bhopal, M. P. February, 1982.
- (iv) Invited to participate inaugural show-Roopankar Museum, Bharat Bhavan, Bhopal, February, 1982.
- (v) Participated in Poster workshop at Garhi Studio, Lalit Kala Akademi, New Delhi.
- (vi) Appointed as a member of General Council of Gujarat State Lalit Kala Akademy, 1981-82.

4. *V. H. Bedekar :*

- (i) Invited to design two new Galleries in their Tribal Museum by Tribal Research and Training Institution of Rajasthan Government and of Maharashtra Government at Udaipur and Pune respectively.
- (ii) Designed life size reconstruction of the Rock Shelters of Madhya Pradesh in the Pre-historic Gallery of the State Museum, Government of Madhya Pradesh-Bhopal.

5. *Gulam Mohammed Sheikh :*

- (i) Organised Retrospective Exhibition of K. G. Subramanyam and invited to participate inaugural show Roopankar Museum, Bharat Bhavan, Bhopal, February, 1982.
- (ii) Member of the Advisory Committee—Roopankar Museum of Fine Arts, Bhopal.
- (iii) Vagarth, Indian Poetry Library to represent Gujarati on the Multilingual Panel, Bharat Bhavan, Bhopal.
- (iv) Committee to award Kalidas—Sanman (Rs. 1 lakh for creative excellena in Fine Arts) set up by the M. P. Government, Bhopal, October, 1981.
- (v) The Governing Council, National Institute of Design, Ahmedabad.

6. *N. K. Sant :*

Prepared Illustration for

- (i) Swaminarayan Bicentenary Publication —Yogi Divine Society Baroda, April, 1981.  
Vol.
- (ii) UNICEF Publication Nutrition —New Delhi, February, 1982.

7. *Raghav Kaneria :*

Appointed as a member of Selection Committee for Garhi Fellowships, Lalit Kala, Akademi, New Delhi.

(F) *Exhibitions and Awards :*

1. *Gulam Mohammed Sheikh*

Participated in group show, 'Place for People' Bombay 9 to 15 November, 1981, New Delhi, 21st November to 3rd December, 1981.

2. *Ramesh Pandya :*

Participated in the following exhibitions.

- (i) All India Exhibition of Art (Drawings and Graphics) of ATUL and Contemporary Art Gallery, Ahmedabad.

- (ii) 6th All India Graphic Exhibition, 1981, Andhra Pradesh Council of Artists, Hyderabad.
- (iii) All India Graphic Exhibition of Gulbarga Art Council.
- (iv) Drawings, 1981 Government Museum and Art Gallery, Chandigarh.
- (v) All India Drawings Exhibition 1981, by Andhra Pradesh Council of Artists, Hyderabad.

3. *Jeram Patel* :

- (i) One-man shows at Bhopal, Sponsored, by M. P. Kala Parishad, December, 1981 and at Hathisingh Visual Art V Centre, Ahmedabad, February, 1982.
- (ii) Invited to participate in 5th Triennale international Exhibition, New Delhi, March, 1982 and All India Drawings Exhibition sponsored by Lalit Kala Academy, New Delhi.

4. *M. S. Deshpande* :

- (i) Participated in Gujarat State Art Exhibition (Photo)
- (ii) Participated in Photo contest in Asia and Pacific 1982, (Photo)

5. *V. P. Trivedi* :

- (i) Participated in National Lalit Kala Exhibition, New Delhi.
- (ii) Designed the Smriti Granth 'Jayaprakash'.—Yagyamudhika Press, Vadodara.
- (iii) Designed in two colours, a sticker, 'Save, our Bio-sphere. —Indian Society of Nutralists of Baroda.
- (iv) Painting entitled 'Sanjog' II' —Printed in Indian Today April, 1981.

6. *Jyotshna J. Bhatt* :

- (i) Participated in Groups show with four other Ceramists in Jehangir Art Gallery, Bombay August, 1981.
- (ii) Work exhibited in "Kumbhak" bowls of Asia and Australia, organised by Lalit Kala Academy, New Delhi.

7. *Raghav Kaneria* :

- (i) Prize at Sixth Photo contest in Asia and the Pacific by UNESCO, Tokyo, Japan.
- (ii) Prize at National Photo Exhibition. "Family of India". Calcutta.
- (iii) Exhibited in "The Living Art of India". The exhibition was organised by the Art Council of Great Britain at the serpentine Art Gallery, London.

8. *G. C. Bhatt* :

Participated in Gujarat State Lalit Kalza Akademy, Annual Art Exhibition.

9. *Girish Khatri* :

- Participated in
- (i) Around the World colour slides—Slides Contest.
  - (ii) Yugoslavia International Photo—Photo Exhibition.
  - (iii) Photo contest in Asia and the Pacific 1982 (Photo).
  - (iv) Nikon Photo—Contest 1981-82 (Slides Photo).
  - (v) Gujarat State Arts Exhibition—(Photographs and Paintings).
  - (vi) National Art Exhibition—Drawing.

10. *V. S. Patel* :

Participated in Group show 1981 at Bombay—Jahangir Art Gallery.

5. **Library**

The working Hours of the Library are from 12-00 Noon to 6-00 p.m.

Particulars	Number
(i) Average number of students making of the Library and/or the Reading-Room daily.	94
(ii) Average number of teachers making use of the Library and Reading Room.	11
(iii) Total number of books issued to students during the year.	3625
(iv) Total numbers of book issued to teachers during the year.	1045

The following figures about the stock and the expenditure on the Library :

Particulars	Number	Cost in Rs.
(i) Books (including back numbers of journals on 1-4-1981.)	6932	1,82,849-77
(ii) Books added during the year F.A. (including Gift Books).	6933-6967	34,46-82
(iii) Books on 31-3-1982 F.A.	35	—
(iv) Journals Subscribed during the year	6967	—
(v) Amount Spent on binding during the year.	—	4,829-55
(vi) Total amount spent for Library.	—	799-20
		1,86,296-59

## 6. Highlights of the Year

- (i) Professor K. G. Subramanyam Ex-Professor of Painting and Ex-Head of the Department of Painting was awarded the Kalidas Samman of Rs. 1,00,000 by the Madhya Pradesh Government for outstanding creative work as an artist. This is the highest award in the century in the field of visual Art.
- (ii) Dr. N. P. Joshi, Retired Director, State Museum, Lucknow, was invited as U.G.C. Fellow Research give a series of Lectures on 'Indian Sculpture and Iconography as well as on Museum Administration.
- (iii) Professor Norbert Lynton, well known Art Historian from England delivered lectures on "Henry Moore and Ben Nicholson" under the Sponsorship of British Council.
- (iv) Art History Department Visual Achives :  
An additional nine-hundred slides were acquired (700 slides were received as educational gift from York University, Canada) bringing the total number of slides to nearly 12,000. Over one thousand photographs and colours reproductions of art objects were added bringing the total to nearly 22,000.
- (v) The Department of Museology which was established in the year 1952 had no building of its own. The Department was functioning in the basement of the Museum and picture Gallery, Baroda in the Sayaji Garden, and Later, in the old Central Building in the Fine Arts College. In the month of July 1981, The Department of Museology moved in its new building adjuscent to the Faculty Auditorium and Department of Art History. The three storied building with a large exhibition hall on the ground floor was constructed out of a special grant from the U.G.C.
- (vi) The Central National professional organizational of museum workers is known as the Museum Association of India (MAI). It held its All India Museums conference and Seminar in Baroda under the auspices of the Department of Museology from 26th to 28th December, 1981. The Seminar on the subject of "Role of Museums in the Environmental Education" was attended by 130 delegates. It was inaugrated by Shri Prabhodh Raval, Minister for Education, Government of Gujarat. A special exhibition on the theme of the seminar was also organised.

## CHAPTER XIV—FACULTY OF HOME SCIENCE

### 1. Courses of Studies :

- (a) The Courses of Studies remained the same as in the previous year.

### Child Development :

*Curriculum Development* :—(b) The new features are as under :—

- (i) A Seminar on Women in Development for which students collected data from all parts of the world was introduced at the Sr. M.Sc. level. Its novel feature was the way students helped to collect worldwide data on the status of women by correspondence, on the spot interviews and by reviewing a variety of media information.
- (ii) The M.Sc. dissertation projects now include a dual purpose of research and action.
  - (a) Research for knowing the felt needs of the community to suggest action programs and
  - (b) Development of program modules for undertaking immediate action to meet the target needs.
- (iii) The Department of Rural Involvement and Extention Project (Block Placement for the Department students) has spearheaded many innovative community and family based programs for child and family welfare by involving the P. G. Diploma and U. G. Diploma students in the local and district infrastructures of a rural community.

### Home Management :

M.Sc. syllabus was revised and will be implemented from June 1982.

### Education and Extension :

The following courses were made compulsory for both 'Education' and 'Extension' groups at the Master's level.

- (a) EE 553 Extension Methods
- (b) EE 552 Field Experience
- (c) EE 653 Directed Teaching

### 2. Number of Students :

Year/Class	Men	Women	Total
(i) First Year	—	200	200
(ii) Second Year (New Students)	—	170	170
(iii) Third Year (New Students)	—	138	138
(iv) B.Sc. (Home—Old 4—Years Course)	—	25	25

1	2	3	4
(v) Jr. M.Sc. (New Admission)	—	60	60
(vi) Sr. M.Sc. (Old Students)	—	59	59
(vii) P.G. Diploma in Pre-School Edu. (Old)	—	23	23
U.G. Diploma in Child Development	—	20	20
U.G. Diploma in C.D. (New Admission)	—	16	16
(viii) Ph.D.	—	33	33

Grand Total : 744

### 3. Staff :

#### (a) Present Position

The Staff of the Faculty including Chetan Balwadi, consisted of :

- 5 Professors
- 5 Readers
- 39 Lecturers
- 2 Teachers (Balwadi)
- 18 Clerks and Technicians
- and 32 Class IV Employees.

#### (b) New Appointments :—

##### Child Development—

- |                         |   |
|-------------------------|---|
| 1. Kumari Beena Achpal  | Lecturer in Child Development           |
| 2. Kumari Sarala George | Lecturer in Child Development           |
| 3. Kumari Neena Kapoor  | Lecturer in Child Development           |
| 4. Kumari Amita Fozdar  | Lecturer in Child Development           |
| 5. Kumari Jaisu Pathak  | Teaching Assistant in Child Development |

##### Foods and Nutrition :

- |                              |  |
|------------------------------|--|
| 6. Dr. (Ms.) Devhuti M. Vyas | Lecturer in Biology                        |
| 7. Dr. (Smt.) Shashi Tuteja  | Lecturer in Biology                        |
| 8. Smt. Nilima Trivedi       | Teaching Assistant in Foods and Nutrition. |

##### Clothing and Textiles :

- |                             |   |
|-----------------------------|---|
| 9. Smt. Jagjeet Kaur Modi   | Lecturer in Clothing and Textiles           |
| 10. Kumari Usha Kiran Masih | Teaching Assistant in Clothing and Textiles |
| 11. Smt. Amita Pandya       | Teaching Assistant in Clothing and Textiles |
| 12. Kumari Neeta C. Patel   | Teaching Assistant in Clothing and Textiles |

##### Education and Extension :

- |                          |   |
|--------------------------|---|
| 13. Kumari Bal Parminder | Teaching Assistant in Education and Extension |
|--------------------------|---|

- |                         |   |
|-------------------------|---|
| 14. Kumari Malini Patel | Teaching Assistant in Education and Extension |
| 15. Kumari Anju Jhamb   | Teaching Assistant in Education and Extension |

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

- |  |                                      |
|--|--------------------------------------|
| 1. Dr. B. N. Chaulkar<br>(Reader in Clothing and Textiles)           | Professor in Clothing and Textiles   |
| 2. Dr. (Mrs.) Arvinda Chandra<br>(Reader in Education and Extension) | Professor in Education and Extension |
| 3. Dr. (Miss) Sunder Gujaral<br>(Reader in Foods and Nutrition)      | Professor in Food & Nutrition        |

#### (d) Teacher who left the University :—

- |                         |  |
|-------------------------|--|
| Mrs. Mrunalinidevi Paur | Lecturer in Food & Nutrition<br>Resigned |
|-------------------------|--|

### 4. Professional Growth of the Staff

#### (a) Published Articles/Papers :—

Name/s	Title	Name of the Journal, wherein published with month of publication
<b>Child Development :</b>		
1. Amita Verma	Experiments in Community Development through Early Childhood Intervention experience of the Department of Child Development	Quest in Education, Vol. XIX, No. 1, January 1982.
2. T. S. Saraswathi	Age, sex and social class differences in the development of moral judgement in Indian children between 10-15 years	Journal Antony, The Child in the family, Vol. 6 Year book of IACP And Ap N.Y. John Wiley, 1982 (French Edition).
3. Veena Mistry and Neena Kapoor	On the horns of a dilemma. Individual case studies of children with learning disabilities.	Jour. of Indian Education, July 1981.
4. Gurmeet Arora and Parul Dave	Factors affecting Marital Happiness—Opinions of University Students	The Indian Journal of Home Science, Vol. 14, No. 1, 1981.

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5. Yogini Pathak and Aruna Dave	An Evaluation of Effect of Participation Program on the Overall Development of Children of a Municipal Nursery School in Baroda	Quest in Education, Vol, XVIII, No, Oct. 1981.	
6 Jyoti Parikh	An experiment with helping parents of Developmentally Handicapped children	Child Psychiatry quarterly, 1981	
7. Indira Mallya	These of Special Play Sessions in a Nursery School Programme	Journal of Indian Education July, 1981	
8. Prerna Mohite	Language curriculum	Indian Educational Review, March 1982.	
9. Beena Achpal and Veena Mistry	The cognitive styles among pre-schoolers and its relationship to teacher's rating on learning abilities	Child Psychiatry Quarterly, Vol XIV, No 4, Oct. Dec., 1981.	
<b>Foods and Nutrition</b>			
10. Tara Gopaldas	(i) Malted versus roasted young child mixes : Viscosity, storage and acceptability trails	Proceedings of the International workshop on Interphases between Agriculture, Nutrition and Food Science, Hyderabad, November, 1981	
	(ii) Integrated Macroscale Interventions of Nutrition and Basic Health Services for the very young child the ICDS Experience	Proceedings of the International workshop on "Nutrition Development of the Child"	
	(iii) The Development of a Nutritional Health Education System for Tribal and Rural Populations in Central India	January, 1982 Baroda International workshop on "Child Nutrition and Mass Media" Feb. 1982, Pune.	
11. Sunder Gujral, Naina Rajgor, C. D. Lovekar,	Serum Lipid Values in Golden Hamsters infected with Ancylostoms Ceylanicum.	Journal Parasitology, 67 : 758, 1981.	

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12. Sunder Gujral, Nita Patel, S. K. Chaudhuri, D. Seth	Lipid Profile of Hamsters infected and treated for Liver amoebiasis with Metro-nidazole	Ind. Journal of Parasitology, 5: 49, 1981.	
13. Sunder Gujral, Nita Patel, C. D. Lovekar, D. Seth	Absence of Lipoproteins in Serum of Golden Hamsters	Current Science, 50 : 363, 1981.	
14. Sunder Gujral, Bunu Joshi	Dietary fat and Serum lipid profile in Is chemic heart disease	Journal of J. Nep. Med, Asso. 19 : 15 : 1981.	
15. Sunder Gujral, Anita Chaudhri	Effects of snack programme on Nutritional Status in Pre-school Children	Journal of Home Science 14 : 17, 1981.	
<b>Clothing and Textiles</b>			
16. B. N. Chaulkar and Bhargavi Kurup	A comparative study of the effect of formaldehyde and similar finishes ( Res. Brief )	ITJ—Nov, 1981 171	Indian Textile Journal.
17. B. N. Chaulkar and Neelam Sharma	A study of starch and similar finishes on cotton ( Res. Brief )	ITJ, Nov. 1981, 171.	
18. B. N. Chaulkar and Iabanya Baruah	Studies in Silks from Assam ( Res. Brief )	ITJ Nov. 1981 172.	
19. B. N. Chaulkar and Bulbul Hazarik	A comparative study of effect of ammonia and acetic acid on properties of silk ( Res. Brief )	ITJ, Nov. 1981, 172.	
20. Usha M. Vadgame and Sunanda K. Marathe	Ikat saris of Orissa	ITJ, Vol. 91, pp. 59, Nov. 1981.	
21. B. Balkrishna and B. Rachna	" Flammability Characteristics of Upholstery "	ITJ, Vol. 91, No. 8, pp. 125-127, May 1981.	
22. B. Balakrishna and K. Suman	Swelling Characteristics of Effect of Bending Stress	ITJ, Vol. 91, No. 11, pp. 95-96, Aug. 1981.	
23. B. Balakrishna and Anu Aron	Swelling characteristics of wool	ITJ, Vol. 92, No. 4, pp. 95-97, Jan, 1982.	

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<b>Educational and Extension</b>			
24.	Anupama Shah	Programmes and impact of non-formal Education Case Study	Indian Journal of Adult Education, July-Aug. 1981.
25.	Sunita Nangia and Anupama Shah	Attitude of Rural Mothers towards primary education of their daughters	Social Welfare, Jan. 1982.

(b) *Published Books and Brochures :*

1	2	3	4
1.	Amita Verma and Chandra Agnihotri	In favour of children and An Agenda for Action	Good Companions, Baroda.
2.	Project Reports Amita Verma and Pramila Phatak	Manual for using Bayley Scales of Infant Development (Research from 1961) based on Baroda Studies and Baroda Norms and Abridged Mental and Motor Scales of Bayley scales of infant development (Research from 1961)	Deptt. of Child Development M. S. University, Baroda.
<b>Foods and Nutrition</b>			
3.	Tara Gopaldas	Chapter on Project Poshak Nutrition in the Community, Vol. 2, by D. S. McLaren Nutrition, Health and Education and Environment	John Wiley and Sons.
4.	J. B. Patel	Manav Ahar (in Gujarati)	NCERT, New Delhi.
5.	J. B. Patel U. Patel and M. Chakrabarty		Centre for Continuing Education.
6.	S. Gujral and Sansanwal T. Singh	A module on using a thesis	Bharati Prakashan, Jaipur.

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

Sr. No.	Name of the Teacher	Name, Place and Dates of the Conference/Seminar	Title of the Paper presented
<b>Child Development :</b>			
1.	T. S. Saraswathi	(i) Nato Conference on human factors. Human assessment and cultural factors, Kingston, Ontario Canada, August 16th-21st, 1981	Understanding children and families in their community setting. Methodological problems in the measurement of contents.
		(ii) 6th Biennial Congress of the International society for studies in Behavioral development, Toronto, Canada, August, 1981	Children of Amarnagar : An ecological study of children in their community setting.
		(iii) Social Inputs Project for area development, Rajasthan State Workshop. Udaipur, January 3rd-8th, 1982	Research and action interact : Community centered in their community setting.
2.	Veena Mistry	International Seminar on Relations between preschool and primary education, Bogota, Colombia May, 26-29, 1981	Fostering Readiness for 1st grade. Action programs with Municipal Schools.
3.	Veena Mistry and Ameeta Fozdar	International seminar on Child development, Dept. of Bio-Chemistry, M. S. Uni. of Baroda, January 1982	Educational Intervention with disadvantaged young children with specific reference to home based programs.
4.	Kiran Parekh	69th session of the Indian Science Congress Association, Mysore University, Mysore, January 3rd 8th 1982	Approaches to school readiness for young children.
5.	Parul Dave	Workshop on tribal child and disability, Gujarat Vidyapith, Ukai, March 14th-15th 1982	Child care in a tribal area of Gujarat.
6.	Aruna Dave	69th Session of the Indian Science Congress Association, Mysore Uni., Mysore, January 3rd-8th, 1982	Developing curriculum of maths and science on pre-school children.

1	2	3	4
7. Yogini Pathak	(i) 6th International conference of women engineers and scientists, Bombay, Sept. 7th-12th, 1981 (ii) 69th Session of the Indian Science Congress Association, Mysore University, Mysore, January, 3rd-8th, 1982 (iii) Seminar on urban poor, Gujarat Municipal Finance Board, Gandhinagar, January 6th-7th, 1982 (iv) Workshop on Science and technology for rural women I.T.I., New Delhi, February, 22-24, 1982	Potentiality of Child-to-child as a means of a hither-to largely neglected component of human resources. A survey of the knowledge content of mothers of a rural community about child-rearing. An assessment of the minimum needs of the urban poor.	
8. Jyoti Parikh	(i) First combined Asian Regional and Commonwealth Congress for the scientific study of mental deficiency, Bangalore, May 2-9, 1981 (ii) Third All India symposium on Psychology of the Handicapped, Deharadun, November, 2-5, 1981	(i) Realities of rural life. (ii) Child-to-mother a strategy based on children as factors of taking science and technology to rural women. (i) A research on Intergration. A case study of developmentally handicapped child. (ii) A study of pre-school experiences for Institutionalized developmentally handicapped children. Study of developmentally handicapped children in relation to child's life at home.	

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	(iii) 17th Annual conference of the Indian Association for pre-school education, S. V. Uni., Tirupathi, January, 7-9, 1982	Integration of developmentally handicapped children in a nursery school.	
9. Nirmala Misra	(i) 69th session of the Indian Science Congress Association Home Science Forum, Mysore Uni., Mysore January, 3rd-6th, 1982 (ii) 17th Annual conference of the Indian Association for pre-school education, S. V. University, Tirupathi, January 2nd, 1982	Importance of education materials in the preparation for 1st grade (Readiness for 1st grade).	
10. Indira Mallya	(i) 69th session of the Indian Science Association Home Science Forum, Mysore January, 3rd-6th 1982 (ii) 17th Annual conference of the Indian Association for pre-Indian Association for pre-school education S. V. University, Tirupathi, January, 7-9, 1982	An intergrated approach to school readiness. A community intervention program Special play sessions and the child with special needs.	
11. Prerna Mohite	Seminar on urban poor, Gujarat Municipal Finance Board, Gandhinagar, January, 6-7, 1982	Educational reforms for urban poor.	
12. Sarla George	Seminar on mental health problems of the socially disadvantaged. All India Institute of Medical Sciences, New Delhi, February, 27-28, 1982	Mental Health Problems of the socially disadvantaged of India strategies for approaching the same.	
<b>Foods and Nutrition ;</b>			
13. Tara Gopaldas	(i) International Workshop on "Interphases between Agriculture, Nutrition and Food Science" ICRISAT. United	Malted versus Roasted young child Mixes: Viscosity, storage and Acceptability Trials.	

1	2	3	4
		Nations University, NIN, CFTRI & ICRISAT, Hyderabad, November 1981	
(ii)	International Workshop on "Nutrition and Development of the child". Bio-Chemistry Department, Faculty of Science, M.S.U., Baroda, January, 1982	Integrated Macroscale Interventions of Nutrition and Basic Health Services for the very young child the ICDS experience.	
(iii)	International Workshop on "Child Nutrition and Mass Media", International Children's Centre, Paris, Ministry of information and Broadcasting at Pune, February, 1982	The development of a Nutrition/Health Education-System, for Tribal and Rural populations in central India.	
(iv)	Newer Concepts in Nutrition and their implications for Social policy March-April 1981, ICAR, Department of Food, Ministry of Agricultural and Maharastra Association for Cultural of Sc. Pune	An experiment in social Inputs into Area Development. Ford Foundation	
(v)	XIIth International Nutrition Congress, San Diego, California, USA, August, 1981	Evaluation of the State of Preparedness of Integrated Child Development Services, Projects, India.	
(vi)	International Foods and Nutrition Policy summer session workshop at Massachusetts Institute of Technology, Cambridge, Mass, USA, July 1981	The Role and Importance of Nutrition Education.	
(vii)	International Food Research Policy Institute, Washington, August, 1982	Present Nutrition Intervention Programme Projects and Policies in India (Seminar).	

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		(viii) International Food Research Policy Institute, Washington USA, August, 1981	Present Nutrition on Intervention Programme Projects and Policies in India (Seminar)
14.	Sunder Gujral	(i) XII International Congress of Nutrition, San Diego, California, USA, August, 1981	Altered Lipid Profile in Liver Amoebiasis and its Emendation with Metronidazole treatment.
		(ii) XIV Annual meeting of the Nutrition Society of India, Pune, 8th-9th, January, 1982	Synergistic and Individual effects of ironfolic acid and deworming at two stages of Ancylostoma Ceylanicum infection on hematological status of Golden Hamsters.
		<b>Home Management</b>	
15.	Veena Gandotra	(i) 69th Indian Science Congress, Mysore University, Mysore, 8th January, 1982	Energy Conservation practices of urban Home Makers
		(ii) Gujarat State Branch of Home Science Association of India, S.P. University, Vidyanagar, February 28, 1982	Importance of Home Management Residence course in Home Science under graduate program.
16.	Rachel George	(i) 69th Indian Science Congress, Mysore University, Mysore, January, 1982	Energy consumption pattern of households of Baroda.
		(ii) Gujarat State Branch of Home Science, Association of India, S. P. University, Vidyanagar, February, 28, 1982	Non-tuition expenditure of undergraduate Students of Home Science Faculty, Baroda.

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<b>Education and Extension</b>			
17. A. Chandra	(i) National conference on Role of Home Role of University education in social development change, Kanpur, 13th 14th February, 1982	Role of Science in development and change.	Home Social and
	(ii) Development of syllabus for Home Economics for Boys and Girls, February, 1982, Delhi, NCERT, Workshop	Approach on Home Economics for Boys and Girls.	paper Eco-Boys
(d) Talks given at different Universities/Institutions :			
1	2	3	4

**Child Development**

1. Amita Verma	Bhavan's School, Baroda December, 1981	Expectations from Parents. Role of Parents and Teachers.	
2. T. S. Saraswathi	(i) Psychology Department, Queen's University, Kingston, Canada, September, 6, 1981	Studying children from the ecological perspective.	
	(ii) South-East Asia study group, Queen's University, Kingston Canada, September, 9, 1981	Social inputs projects for area development.	
	(iii) Faculty of Home Science, Humbolt University Areata, California, USA, October, 4th 1981	Social inputs projects for area development.	
	(vi) Department of Education, University of Malaysia, Kaula Lumpur, Malaysia, October, 28th, 1981	Studying children from an ecological prespective.	
3. Veena Mistry	Navrachana School, Baroda April, 1981	Helping a difficult child.	

1	2	3	4
4. Veena Mistry Amita Fozdar Sarla George Beena Achpal	Bhavan's School, Baroda December, 1981	Expectations from parents. Role of parents and teachers	
5. Kiran Parekh	Central School English Medium School, Vallabhvidyanagar	(i) Preschool programme. (ii) Language experience for young children. (iii) Role of Parents.	
6. Parul Dave	Anand Balwadi, Baroda, 20th February, 1982	Mental health of preschool children and parents' role in guiding child behaviour and development.	
7. Jyoti Parikh	(i) Shreyas School, Baroda September 10, 1981 (ii) N.P.S.S. School, Market, Baroda, August 16th 1981	Detection of Handicapped children in classroom situation. Referral services for auditorily impaired children.	
8. Nirmala Misra	Sadhu Vaswani School, July 1981	Leisure time activities for preschool and primary school children.	
9. Prerna Mohite	Bharatiya Vidya Bhawan's School, Baroda	Expectations from parents and teachers.	
<b>Foods and Nutrition</b>			
10. Tara Gopaldas	Community Medicine Department Faculty of Medicine, M. S. U. Baroda	A series of lectures on community nutrition for MDs of community Medicine, Pediatrics, Gen. Medicine etc..	

## (e) Participation in Inservice Programme :-

Sr. No.	Name of the Teacher	Programme, Place and Date	Capacity in which participated
1	2	3	4
<b>Child Development</b>			
1.	Amita Verma	(i) Meeting on educational innovations and Research, NCERT, 15-16, 1981	Expert Member
		(ii) The International Family Planning staff workshop. AHEA-IFPP, Washington D.C. August 15-25, 1981	Key contact for India.
		(iii) International Regional Conference on Child Welfare, ICCW, New Delhi, November 16-18, 1981	Delegate
		(iv) Meeting of the Home Science Panel on U.G.C., New Delhi, November 19th 1981	Expert
		(v) Meeting of the special expert committee for revising the curriculum of Balsevika training, ICCW, New Delhi, November 20th 1981	Expert
2.	T. S. Saraswathi	(i) First National Congress on women's studies, Bombay, April 20-24, 1981	Observer
		(ii) Nato Conference on Human Factors Assessment and cultural factors, Kingston, Canada, August, 16-21st, 1981	Invitee
		(iii) 6th Biennial Congress of the International society for studies in Behavioral development, Toronto, Canada, August, 1981	Invitee
		(iv) Social Inputs project for area development, Rajasthan State Workshop, Udaipur, January, 3-8, 1982	Expert

1	2	3	4
3.	Veena Mistry	(i) International Seminar on Relations between preschool and primary Education, Bogota, Columbia, May 26-29, 1981	Delegate
4.	Kiran Parekh	(i) Inservice teacher training program on Readiness for first grade for NPSS teachers. Department of C.D., M.S. University of Baroda, Baroda October, 10-20, 1981	Joint Organizer.
		(ii) A symposium on Prevention of handicaps, Chetan Balwadi, area of exceptional children, M. S. University of Baroda, November, 27, 1981	Joint Organizer.
		(iii) 69th session of the India Science Congress Association, Home Science Forum, Mysore, University Mysore January 3-6, 1982	Delegate
		(iv) 17th Annual conference of the Indian Association for preschool education, S. V. University Tirupathi, January 7-9, 1982	Delegate
		(v) Training workshop on recreational activities for children with special needs. Department of C.D., M. S. University of Baroda, Baroda February, 7-11, 1982	(Inaugural address) Resource Person.
5.	Parul Dave	(i) Inservice training program for welfare workers, Department of C.D., M. S. University of Baroda, Baroda July 20-24, 1981	Organizer
		(ii) Workshop on role of Home Science and Social Work	Organizer.

1	2	3	4
	in ICDS Projects, NIPCCB, Udaipur, October, 20-22, 1981		
	(iii) Workshop on tribal Child and disability, Gujarat Vidya-pith, Ukai, March, 14-15, 1982	Participant	
6. Atula Derasari	Symposium on prevention of handicaps-Area of Exceptional children, Chetan Balwadi, M. S. University of Baroda, Baroda November, 27, 1981	Resource Person	
7. Aruna Dave	(i) Inservice teacher training program on readiness for Ist grade NPSS teachers. Department of C.D., M. S. University of Baroda, Baroda October, 10-20, 1981	Resource Person	
	(ii) Symposium on prevention of handicaps Area of Exceptional children Chetan Balwadi, M. S. University of Baroda	Joint Organizer	
	(iii) 69th session of the Indian Science Congress Association, Home Science Forum, Mysore University, Mysore January, 3-6, 1982	Delegate	
	(iv) 17th annual conference of the Indian Association for preschool, S. V. University Tirupathi, January 7-9, 1982	Delegate	
	(v) Training Workshop in re-creational activities for children with special needs, department of C.D., M. S. U. Baroda, February, 7-11 1982	Delegate	

1	2	3	4
8. Yogini Pathak	(i) Inservice training program for welfare workers, Department of C. D., M. S. U. Baroda, July 20-24, 1981	Resources Person	
	(ii) Inservice training program for ICDS supervisors, V.T.K. Institute Samiala, August, 13th, 1981	Resource Person	
	(iii) Inservice teacher training program an readiness for first grade for NPSS teachers, Department of C.D., M. S. U. Baroda October, 10-20, 1981	Joint Organizer	
	(iv) 6th International conference of women Engineers and scientists, Bombay September 7-12, 1981	Delegate	
	(v) Symposium on prevention of handicaps Area of Edxceptional children, Chetan Balwadi, M. S. U. Baroda, November, 27, 1981	Joint Organizer	
	(vi) 69th session of the Indian Science Congress Asso. Home Science forum Mysore University Mysore, January, 3-8, 1982	Convenor	
	(vii) Training workshop on recreational activities for children with special needs, Department of C.D., M. S. U. Baroda, February, 7-11, 1982	Joint Organizer	
	(viii) Workshop on Science and Technology for Rural Women, I.I.T., New Delhi February 22-24, 1982	Expert	

1	2	3	4
9.	Jyoti Parikh	(i) Symposium on prevention of Handicaps Area of Exceptional children Chetan Balwadi, M. S. U. Baroda, November, 27, 1981	Resource Person
		(ii) First combined Asian Regional and common wealth congress for the scientific study of mental deficiency, Bangalore, May 2-9, 1981	Invitee
		(iii) Third All India symposium on Psychology of the Handicapped, Dehradun, November 2-5, 1981	Delegate
		(iv) Seminar on parent-teacher partnerships for training developmentally handicapped children, B. M. Institute, Ahmedabad, December 12-13 1981	Panel member
		(v) 17th Annual conference of the Indian Association for preschool education, S. V. University, Tirupathi, January 7-9, 1982	Delegate
		(vi) Training workshop on recreational activities for children with special needs, Department of C.D., M. S. U., Baroda February 7-11-1982	Advisor
10.	Nirmala Misra	(i) Inservice teacher training program on readiness for 1st grade for NPSS teachers, Department of C.D., M. S. U., Baroda, October 10-20, 1981	Resource Person
		(ii) Symposium on prevention of handicaps Area of exceptional children, Chetan Balwadi, M. S. U., Baroda November 27, 1981	Joint Organizer

1	2	3	4
		(iii) 69th session of the Indian Science Congress Association Home Science Forum, Mysore University Mysore, January, 3-6, 1982	Delegate
		(iv) 17th Annual conference of the Indian Association for preschool education, S. V. University Tirupathi, January 7-9, 1982	Delegate
		(v) Training workshop on recreational activities for children with special needs, Department of C.D., M. S. U., Baroda February, 7-11 1982	Resource Person
11.	Indira Mallya	(i) Inservice training program for welfare workers, Department of C.D., M.S.U., Baroda, July 20-24, 1981	Resource person
		(ii) Symposium on prevention of handicaps Area of exceptional children, Chetan Balwadi, M. S. U., Baroda November 27, 1981	Coordinator
		(iii) 69th session of the Indian Science Congress Association Home Science Forum, Mysore University, Mysore January, 3-6, 1982	Invitee
		(iv) 17th Annual conference of the Indian Association for preschool education, S. V. University Tirupathi, January, 7-9, 1982	Delegate
		(v) Training workshop on recreational activities for children with special needs. Department of C.D., M. S. University Baroda, February 7-11, 1982	Convenor

1	2	3	4
12. Purna Mohite	Seminar on urban poor, Gujarat Municipal Finance Board, Gandhinagar, January 6-7, 1982	Participant	
13. Amceta Fozdar	(i) Symposium on prevention of Handicaps Area of exceptional children, Chetan Balwadi, M.S.U. of Baroda, Baroda, November 27, 1981	Co-organizer	
	(ii) International seminar on Nutrition and Child Development, Department of Bio-chemistry, M.S.U. Baroda January, 1982	Participant	
	(iii) Training workshop on recreational activities for children with special needs. Department of CD., M.S.U., Baroda February, 7-11, 1982	Co-organizer	
14. Sarla George	(i) Seminar on mentalhealth problems of the socially disadvantaged. All India Institute of medical sciences Febrnary, 27-28, 1982	Participant	
	(ii) Training workshop on recreational activities for children with special needs. Department of Child development, M. S. University Baroda, February 7-11, 1982	Resource person	
15. Beena Achpal	(i) International seminar on Nutrition and Child Development Department of Bio-Chemistry, M. S. U., Baroda January, 1982	Observer	
	(ii) Training workshop on recreational activities for children with special needs. Department of Child Development, M.S.U., Baroda, Baroda, February 7-11, 1982	Resource person	

1	2	3	4
16. Neena Kapoor	(i) Inservice teacher training program on readiness for 1st grade for NPSS teachers. Department of Child Development, M.S.U., Baroda, October 10-20, 1981	Resource person	
	(ii) Training workshop on recreational activities for children with special needs, Department of Child Development, M.S.U. Baroda, February 7-11, 1982	Resource person	
17. Dropti Bhagia	(i) Symposium on prevention of handicaps Area of exceptional children, Chetan Balwadi, M.S.U. of Baroda, Baroda, November 27, 1981	Co-organizer	
	(ii) Training workshop on recreational activities for children with special needs, Department of child development, M.S.U. of Baroda, February 7-11, 1982	Resource person	
18. M. Macwan	Symposium on prevention of handicaps area of exceptional children, Chetan Balwadi, M.S.U. of Baroda, November 27, 1981	Co-organizer	
19. Ammeta Fozdar Sarla George Beena Achpal Neena Kapoor	All India Workshop on University teaching methods and evaluation case, M. S. U. Baroda, February 2-6, 1982	Participants	
	<b>Foods and Nutrition</b>		
20. Subadra Seshadri	(i) Newer concepts in Nutrition and their implications for Social policy, March-April, 1981. ICAR Department fo Food, Min. of Agri. Maharashtra Association for Cultivation of Sciences, Pune 1981	Participant	

1	2	3	4
	(ii) Development Programmes for the rural poor. National Institute of Rural Development, July 1981	Participant	
21.	Shashi Tuteja Summer Institute in Microbiology, Department of Microbiology M. S. U. Baroda	Participant	
22.	Jayaprabha Patel UNICEF/NCERT International workshop on nutrition education for the primary school child, new Delhi, November, 1981	Participant	
23.	Tara Gopaldas International Regional Conference of child welfare, International Union, for child welfare, Geneva and ICCW, New Delhi, November, 1981	National delegate	
<b>Clothing and Textiles</b>			
24.	B. Balakrishna Q.I.P. Summer school on Advances in Textiles chemical processing, May 20, June 5th 1981 Indian Institute of Technology, Delhi	Participant	
<b>Home Management</b>			
25.	Asha Dass Training program for using the IBM-360/44 Computer Centre, Baroda, August 1981	Participant	
<b>Education and Extension</b>			
26.	A. Rana, A. Thomas, U. Joshi All India workshop on teaching methods and evaluation, CASE M. S. U. Baroda February 2-6 1982	Participant	
27.	A. Rana Training program for using the IBM-360/44 Computer system, M. S. U. Computer Centre, Baroda August, 1981	Participant	

1	2	3	4
28.	A. Nagwekar	Workshop on Development strategy for writing the reports on health, nutrition and sanitation projects organized by NCERT and UNICEF Jabalpur in August, 1981	Participant
<b>4. (f) National Awards :</b>			
(i)	Swati Malhotra (Sr. M.Sc. Student)	Nutritional Anemia, Cognitive Function and Work performance in the Primary school child, <i>J. N. Bose Memorial Prize</i> , for best Nutrition Project Report, 1982.	
(ii)	Prof. Tara Gopaldas J. B. Patel, U. Patel, P. Mehta K. Nanawaty and P. Trivedi	Training the trainer : A Low Cost communications model in nutrition-health education. <i>Goenks Memorial Prize</i> for best paper in Nutrition education (Nature, extent and result) 1982.	
(iii)	Professor Sunder Gujaral	was honoured by a gift of life membership to the Iowa State University Alumni Association in September, 1981.	
<b>5. Visitors</b>			
<i>Faculty Level :</i>			
(i)	Smt. Kamaladevi Chattopadyaya	gave a series of lectures under the auspices of the Tagore Memorial Lectures from 25-29 January. The themes were on Development of Women and Family Life.	
<b>Child Development</b>			
<i>Special Guests :</i>			
(ii)	Madame Gutard	President of OMEP (Area of Early Childhood Education) Finance, visited the Department in February 1982.	
(iii)	Madame Bustrillo	of FAO.	
<b>Foods and Nutrition :</b>			
Sr. No.	Name	Designation	Date of Visit
1	2	3	4
1.	Doctors of the S.E. Asia and Post-graduate teachers of national medical colleges.	Senior doctors of S.E. Asia.	January-February 1982.

1	2	3	4
2.	Dr. C. Gopalan	Director General, Nutrition Foundation of India	January 10, 11th 1982.
3.	Dr. S. K. Chatterjee	Director, National Institute of Occupational Health, Ahmedabad	13-3-1982
4.	Dr. C. E. Roderuck	Director, World Food Institute of Iowa State University, USA	27-1-1982
5.	Dr. Kalyan Bagchi	Senior Consultant, WHO, New Delhi	14-1-1982
6.	Dr. Bartillos	Senior Program Officer, FAO, Rome.	March, 1982.
7.	Ms. Marry Ann Anderson	Nutrition Adviser, USAID, New Delhi	January 12, 1982
8.	Dr. Jane Kusin	Senior Scientist, Royal Tropical Institute, Amsterdam	January 10, 1982
9.	Dr. Ruth English	Public Health Dept., Govt. of Australia.	January 10, 1982
10.	Dr. S. Kardjati	Prof. Nutrition, Bongor, Indonesia	January 10, 1982
11.	Dr. Aruroa Tonper	Prof. Paediatrics, Philipines	January 10, 1982
12.	Dr. Dana Raphael	Director, Human Lactation Centre, USA.	January 10, 1982

#### 6. Special Activities :

##### Faculty Level :

The Faculty organized an Exhibition on Prevention, Training and Rehabilitation of Disabled person in collaboration with Baroda Jaycees. A scale of also arranged, the proceeds of which will be utilized to establish a special items Music Centre for children with special needs.

##### Child Development :

1. The department continued to work closely with the BMC in the field of Early Childhood Education. The highlights of the current year were, an inservice training program for Nagar Prathmik Shikshan Samiti teachers of Grade I and a program Module of the same, for the benefit of the NPSS Administrators for effecting such programs independently.

#### 2. Involvement in the International Year for Disabled Persons, 1981.

(a) Dr. Jyoti Parikh who represented the Department for IYDP Activities at local level spearheaded the following activities :

- (i) A city level two day exhibition in collaboration with 18 local agencies on "Prevention, training and rehabilitation of disabled persons, "Oct. 1981 in Collaboration with the Baroda Jaycees.
- (ii) A Talim Shibir for workers in the area of "Exceptional Children", October 1981.
- (iii) Training workshop on recreational activities for children with special needs in collaboration with the Balbhavan Society of Baroda in February 1982.

The department was closely involved in the Balbhavan activities especially in organizing the workshop for field level workers.

#### 5. Involvement in Committees outside the Faculty.

- (i) Prof. Amita Verma
  1. Reappointed on National Council for Teacher Education.
  2. Appointed on the Gujarat Government Advisory Committee for Museums in the State.
  3. Appointed on the vocational Educational Committee of the Gujarat Education Department.
  4. Member of Joint Advisory Committee for UCDS and ICDS, Baroda.
  5. Invited as expert for the workshop on Training Requirements of Child Development Workers at NIPCCD, New Delhi, April—12-13, 1982.

#### (ii) Dr. T. S. Saraswathi

1. Invited to serve as member of International Editorial Board of Journal entitled 'Cognitive Development Abstracts to be published by Brighton Polytechnic, Sussex, England.
2. Invited to serve as member Ad-hoc committee on training and policy related activities of the International society for the study of Behavioral Development.

#### (iii) Dr. Veena Mistry

1. Appointed as executive committee member of the Indian Association of preschool education.
2. Expert for screening research proposals submitted to IAPE.

- (iv) Dr. Yogini Pathak  
Selected as Co-convenor, Home Science Forum of the Indian Science Congress.

#### Foods and Nutrition

The first batch of M.Sc. ( Home ) D. passed out in 1981, after a six-months internship at some of the best post graduate and teaching hospitals of the country.

#### 7. Highlights of the Year

##### (1) Awards and Scholarships :

- (1) The award of Chancellor's Gold Medal 1981 was bagged by Miss Mushira Hakim, Sr. M.Sc.
- (2) Award of Prince Dhairyashil Rao Sayajirao Gaekwad Scholarship 1981-82 went to Miss Parvin A. Shah, Sr. M. Sc.
- (3) Dr. Shreemati Pramila Phatak Award 1981-82 went to Miss Radhika Gupta, Sr. M.Sc.
- (4) Miss Rajbala Sharma Award 1981-82 went to Miss Raymon Dhillon, Sr. M.Sc.

##### (2) Foods and Nutrition :

- (i) Professor Gopaldas and Dr. S. Gujaral were deputed by the University to attend the 12th International Nutrition Congress, San Diego, California, August, 1981. Both read a paper each. Professor Gopaldas gave several seminars in USA. She also visited Prof. Whitehead and his group at Cambridge, U.K., Dr. David Morely, Institute of Child Health, London, and Nutritionists at WHO, Geneva.
- (ii) Staff and students have bagged most of the annual awards of the Indian Dietetic Association in 1981 and 1982.
- (iii) Ms. Ninaz Ankleshwaria obtained her Ph.D. from the Faculty of Education.
- (iv) Dr. Gujaral made the leap from lecturer to Professor in March 1982.
- (v) The Department has established a strong and viable branch of the Indian Dietetic Association. This year Professor Gopaldas, Mrs. J. B. Patel, Ms. S. Seshadri were unanimously returned as 6th President, Vice-President, and Secretary of the National IDA.
- (vi) Prof. Gopaldas was elected member expert panel of the ICSSR/ICMR. She was elected as member of the General Body of the National Institute of Public Co-operation and Child Development,

member of the State Level Committee on the ICDS, and served as one of the experts to revise the All-India curriculum of the Balsevikas of the Indian Council of Child Welfare.

- (vii) The Ph.D. programme has been strengthened and enrollment stands at 7. The second batch of three Ph.D. students are currently spending a month each at National Institute of Nutrition, and the Central Food Technological Research Institute.
- (viii) The Department successfully completed 4 research projects and currently has 5 research projects from NCERT, Gujarat State Forest Development corporation, Ford Foundation, ICMR, and UGC in hand.
- (ix) The department has been recognised as a centre of excellence in Community Nutrition and Nutrition Education by the National Institute of Nutrition and WHO. (Bathces of SE Asian doctors have visited the Department for the last 2 years.)
- (x) Prof. Gopaldas was invited by UNICEF Kabul to serve as temporary advisor, UNICEF, Kabul, in September, 1981.
- (xi) Professor Gopaldas was invited to be a member of the expert panel of the Indian Council of Social Science Research and Indian Council of Medical Research. She was invited to be a member of the General Body of the National Institute of Public Co-operation and Child Development and member of the stall level committee, of the integrated Child Development Service Programme.

#### 8. Achievement of Alumni

##### Child Development :

The Child Development Alumni Association was formally launched on 20th March 1982.

## 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 students enrolled during the year 1981-82 was as under :

Class	Men	Women	Total
1. Master of Social Work—Junior	27	24	51
2. Master of Social Work—Senior	15	14	29
3. Post-graduate Diploma in Industrial Relations and Personnel Management	17	3	20
Total	59	41	100

## 3. Staff

## (a) Present Position :

The staff of the Faculty consisted of 1 Professor, 3 Readers, 9 Lecturers, 9 Class III and 7 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.	H. M. Rajyaguru	(i) Relative Status of Women and Family Planning	Indian Journal of Social Work Vol. XIII, No. 2, July, 1981.
		(ii) Measuring Family Planning Acceptance	Journal of Family Welfare Vol. XXVIII No. 3, March 1982.
2.	S. B. Saxena	Why so many suicides among women in Gujarat	'Dharmayug'. 29-11-1981.

## (b) Participation in Inservice Programme :

Name of the Teacher	Programme, Place and Date	Capacity in which participated
1	2	3
1. S. R. Yardi	(i) Seminar on "Sponsorship programme for Children" organised by National Institute of Public Co-operation and Child Development, New Delhi from 21st to 23rd July, 1981	Participant.
	(ii) Seminar on "Social Action" organised by Association of School of Social Work in India, Madras from 11th to 19th June, 1981	Participant.
	(iii) Seminar on "Public Co-operation in Govt. Programme" organised by National Institute of Public Co-operation and Child Development, New Delhi from 28th to 31st December, 1981	Participant.
2. K. M. Sharma	(i) National Seminar on Role of Social Work Schools and Home Science National Scheme of College in ICDS by Govt. of India, National Institute of Public Co-operation and Child Development, New Delhi, October, 1981	Resource person.
	(ii) National Workshop on Training for ICDS at New Delhi, National Institute of P.C. and C.D. November, 1981	Resource person.
3. V. Anjaria	(i) Seminar on "Prostitutes and Call-girls" organised by Social Defence Department May, 1981	Resource person and speaker.
	(ii) Talk on "Accidents Psychological aspects" organised by IPCL Women employees September, 1981	Resource person and speaker.
	(iii) Talk on "Role of Industrial Workers in Family Health" organised by Alembic Glass Workers in December, 1981	Resource person and speaker.

1	2	3	4
4. S. B. Saxena	(i) Workshop on "Social Work Education and Hindi creative literature Lucknow University, 19-5-1981 to 22-5-1981	Participant	
	(ii) Symposium on "Prevention of Disabilities, Family and Rehabilitation organised by V-one society, on 13-9-1981, Baroda	Participant	
	(iii) Seminar on "Urban community Development" organised by Local self Govt. Institute Ahmedabad (for officers of Municipalities sponsored by Directorate of Municipalities, Ahmedabad) 15 to 19th December 81	Participant	
	(iv) Workshop on "Graphic presentation for officers in Correctional Department" organised by Tirpude College of Social Work, Nagpur on 15-1-82	Co-ordinator & organiser	
	(v) Seminar on "National consultation on social action at community level" Vishva Yuvak Kendra, New Delhi from 4th to 7th December 81	Participant	
5. A. S. Navale	(i) National consultation on "Social Action" at community level organised by International Youth Centre, New Delhi from 4th to 7th, December 81	Participant	
	(ii) State level meeting of programme Co-ordinator at Ahmedabad organised by Ministry of Education and Culture, Govt. of India, 14-4-81	Participant	
	(iii) Meeting called by Directorate of Education, Govt. of Gujarat for involvement of Youth in Education and community service on 30-6-81	Participant	
6. M. D. Vyas	Seminar on "National Consultation on Social Action at community level" Vishva Yuvak Kendra, New Delhi, from 4-12-81 to 7-12-81	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. 3500/- for subscription to periodicals and Rs. 3000/- for books.

Sr. No.	Books including Bound Periodicals	Pamphlets	Total value in Rs.
(i) Number at the beginning of the year	9,754	2,525	1,40,571
(ii) Number added during the year	50	—	1,855-27
(iii) Number remaining at the end of the year	9,804	2,525	1,42,426-27

#### Periodicals :

The total No. of periodicals subscribed by the library during the year was 23.

The following figures show the statistics of Library :

- (i) Weekly Average number of Readers visiting the Library : 90
- (ii) Average Number of Books issued for home reading : 110
- (iii) Average Number of teachers visiting the Library : 14
- (iv) Average Number of Books issued per day for reference : 95

### 6. Important Events

- I. Seminar on "Promotion of Mental Health" 14-3-1982.
- II. Urban Community Development Project Consultancy, Baroda Municipal Corporation and UNICEF have been supporting Urban Community Development Project in Baroda (80-83)
- III. A team of about 25 students accompanied by two teachers visited the Faculty of Nirmala Niketan, Bombay.
- IV. Senior M.S.W. Students of the Faculty visited three schools of Social work at Madras : (1) Madras School of Social Work (2) Stella Marria College and (3) Loyola College at Madras and other nine social welfare agencies as part of the study tour. Jr. M.S.W. students visited Anaval Dist. Surat for camping and Rural studies during the month of January 1982 for one week.
- V. In the memory of late Shri Bhailalbai Contractor, pioneer and leading public worker of Baroda and Gujarat, a commemoration volume of Directory of Social Welfare Agencies in Baroda was published. The project was the joint endeavour of the Indian Council of Social Work, Baroda and Faculty of Social Work.

VI. A Shield for students of Diploma in Industrial Relations and Personnel Management was donated by Golden Tobacco Co.

VII. Samaj Kalyan Kendra Field Work service agency of Faculty of Social Work started a Workshop for Training and Income supplementation to Urban Poor Women in Collaboration with N.S.S. and Lion's Club of Karelibaug on Gandhi Jayanti, October 2nd 1982.

Women from nearby slums are taught tailoring from a qualified Tailoring teacher belonging to the same socio-economic strata. The Volunteers of Lion's Ladies Club participate by rotation in the administration of the programme. The Faculty Agency Supervisor and National Service Scheme community organiser jointly manage the workshop.

#### VIII. Child Guidance Clinic :

Jointly established by the Faculty of Social Work and Indian Council of Social Welfare the Child Guidance, the Clinic in nine years has provided 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 psychiatrist, clinical psychologist, speech therapist, besides a social worker. So far, 380 children have made use of this clinic. The services have now been developed in the area of learning disabilities.

#### 7. National Service Scheme

The Dean of the Faculty is the Ex-officio Director of University National Service Scheme Programme. Faculty member Shri Anil S. Navale works as N.S.S. Programme Co-ordinator. Social Work approach to M.S.S. has resulted in providing a special direction to the movement.

- (a) Enrolment of students : 1500
- (b) Camps 16 : student participants : 570
- (c) N.S.S. Officers : 12.

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

The Institute conducted two types of Inservice training programmes in Social Welfare and Panchayati Raj.

The Social Welfare training programme is financed by Department of Social Welfare, Government of India and Panchayati Raj Training by the Government of Gujarat.

##### (i) Training :

The group-centred approach was utilised to train the adult learners for their specific jobs. Several concurrent type of Field Work Pro-

grammes and Block Placement/Project visits to rural areas/villages were organized.

(ii) Observational Visits on Panchayat Administration in Panchayati Raj Job Course.

Three job courses in Panchayati Raj for village secretaries were conducted during the year under report. The Government had issued instructions to delete field work training from courses, which were for a period of one month previously.

(iii) Agency visit on Development and Administration. Four agency visits for course were organised at Primary Health Centre, Health and General Museum, Sayaji Bag, Diamond Jubilee Trust and Taluka Panchayat and Dairy. These visits were conducted in close co-operation with agencies of Padra and Baroda Talukas. All teachers accompanied on the visits.

(iv) Village Camps

Three day camps were organised at Karnali, Garudeshwar and Karnali for all three groups.

(v) Staff Development Activities

(i) Kum. A. N. Trivedi, Instructor participated in the training organised at NIPCCCT, New Delhi. from 22-3-82 to 27-3-82 on "Participatory Nutrition Education".

#### 9. Visitors

(vi) Visitors

- (i) Dr. O. P. Gupta, Director of Health and Medical Services and Medical Education 2-11-81.
- (ii) Development Commissioner Mr. B. T. Trivedi 5-11-1981.
- (iii) Dr. D. Paul Chowdhary, Director NIPCCD, and Dr. P. C. Shah, Dy. Director (Nut.) Directorate of Health and Medical Services on 8-2-1982.

Sr.No.	Name and Designation	Date of Visit
1	2	3
1.	Shri S. N. Subbarao, Director National Youth Project, Jaura (N.P.)	22-6-81
2.	Dr. Jatin Mody, Mayor, Baroda Municipal Corporation, Baroda	27-7-81
3.	Swami Sidhanandji of Ramkrishna Sevashram, Lucknow	25-12-81

1	2	3
4. Shri G. L. Shukla, Hon. Secretary General, Indian Council of Social Welfare, 175 Dadabhai Navrojaji Road, Bombay		27-1-82
5. Smt. Kamladevi Chhattopadhyay, New Delhi		27-1-82
6. Shri Navinchandra Barot, President, National Labour Organisation, Ahmedabad		14-3-82
7. Dr. P. Dayal, Head, Dept. of Social Work, Gujarat University Ahmedabad		19-3-82

## CHAPTER XVI—FACULTY OF LAW

### 1. Courses of Studies

- (a) The courses of studies remained the same as in the previous year.  
 (b) The Faculty offers a specialized study of Textation Law, Labour Law, and International Law at the LL.B. (General) Degree Examination.

### 2. Number of Students

Class	Men	Women	Total
<i>(i) Degree Courses :—</i>			
(a) 1st LL.B. (General)	913	155	1068
(b) 2nd LL.B. (General)	690	56	746
(c) LL.B. (Special)	111	7	118
<b>Total</b>	<b>1714</b>	<b>218</b>	<b>1932</b>
<i>(ii) Post-graduate Diploma :—</i>			
(a) D.T.P.	216	17	233
(b) D.L.P.	226	15	241
<b>Total</b>	<b>442</b>	<b>32</b>	<b>474</b>
<i>(iii) Post-graduate Degree :—</i>			
(a) LL.M. Part-I	20	4	24
(b) LL.M. Part-II	4	—	4
<b>Total</b>	<b>24</b>	<b>4</b>	<b>28</b>
<b>Grand Total</b>	<b>2180</b>	<b>254</b>	<b>2434</b>

### 3. Staff

During the year the staff consisted of one Professor, three Lecturers, One Teaching Assistant, Ten Part-time Professors, One Visiting Professor, Seven Class III and Five Class IV employees.

### 4. Professional Growth of the Staff

#### (a) Articles :

	Nam of Journal
Prof. H. C. Dholakia,	
(i) Contemporary Constitutional Problems	Journal of Bar Council of India.

## (ii) State Government

Chapter in "Constitutional Law of India"  
(Editor Mr. Justice M. Hidayatulla).

## (b) Books :

(i) Jurisprudence University Granth Nirman Board, Gujarat State.

## 5. Visitors

Name and Designation	Date/s	Subject of the Lecture
Dr. D. T. Jain	19-3-1982	
Professor of Law, Saurashtra University	20-3-1982	Philosophy of Law.

## CHAPTER XVII—ORIENTAL INSTITUTE

1. The main work of the Institute is research and publication of important unpublished works in 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 170 in the Gaekwad's Oriental Series and 634 other books in other Series. Two works were reprinted in the Gaekwad's Oriental Series during the year. The first fascicule of the Balkanda ( Vol. I ) of the Critical edition of the Valmiki Ramayana was also reprinted 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) Maharaja Sayajirao Memorial Lecture Series (5) Sayaji Sahityamala (6) Shri Sayaji Granmaviksmala (7) Shri Sayaji Balajnamala (8) Shri Shishujanamala (9) Matushri Jamnabai Smarak Granthamala.

The following two quarterly Research Journals are being published :

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

## 2. Post-Graduate Teaching

As part of the scheme of co-ordination of the teaching of 14 Shastras at the M.A. Course in 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 and later Acting Director of the Institute, has been teaching Prakrit since then at Post-graduate level.

## 3. Staff

## (a) Present Position :

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. The staff of Vishnupurana Project consisted of 1 General Editor, 1 Assistant Editor and 6 Class III employees.

## (b) Teachers upgraded to Higher Position :

- (1) Shri J. P. Thaker ~~Acting~~ Director  
( Deputy Director )

(2) Dr. B. N. Bhatt *II* Deputy Director  
(Research Officer) *HC*

(c) Teachers who left the University :  
Dr. A. N. Jani, Director Retired.

#### 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	2	3	4
1.	Professor A. N. Jani	(i) Interpolations in the Hathayoga Pradipika	Dr. Ludwig Sternbach Commemoration Volume. January, 1982.
		(ii) संस्कृत कवितामां अभिनव प्रयोगः मोनो धमेण संस्कृतना के	'Svadyhaya' Vol. 18 No. 4 Aug. '81 (Janmashtami issue)
		(iii) अभिनव प्रवासरातको	'Svadyhaya' Vol. 18 No. 3 May '81 ( Akshayatriya issue )
2.	Shri J. P. Thaker	(i) More about Go-Vijnana	'Journal of the Oriental Institute' Vol. 31, No. 2, Dec. '81 issue.
		(ii) An Ancient remedy for Leprosy	'Journal of the Oriental Institute' Vol. 31, No. 3, March, '82, Issue.
3.	Dr. B. N. Bhatt	(i) Rsyasrnga Episode in the two epics and the light it throws on their text traditions.	Journal of the Oriental Institute, 'Vol. 31, No. 3, March, 1982, issues.
		Review on :—	
		(ii) History of Visitadvaita Literature	Journal of the Oriental Institute, 'Vol. 21, No. 3, March 1982, issue.13

1	2	3	4
4.	Shri B. P. Pandya	(i) The Vrajavadhucaranarajomahatmayam—A study	'Journal of the Oriental Institute' Vol. 31, No. 1, Sept. 1981, issue.
		(ii) Amaramarkandeyam—A study	'Journal of the Oriental Institute', Vol. 31, No. 2, Dec. 1981, issue.
		(iii) A Further Note on the Life of Sankaralala Bhatta	'Journal of the Oriental Institute', Vol. 31, No. 3, March, 1982 issue.
		Reviews on :—	
		(iv) Svastha Jivana (in Gujarati)	'Svadyhaya', Vol. 19, No. 1, Dipotsavi issue October, 1981.
		(v) Gitanuji Acamana (in Gujarati)	'Svadyhaya', Vol. 18, No. 4, Janmastami issue August, 1981.
5.	Shri S. Y. Wakankar	(i) Avyayasangrahanighantu (in Gujarati)	'Svadyhaya', Vol. 18, No. 3, Akshyatriya issue.
		(ii) Unmattapratapakam—A rare and littleknown Vedanta work	Asiatic Society of Bombay, Vols. 52-53, (New Series), July, 1981.
		(iii) Pracina Sanskrit Sahitya ani Jaduce Courasa (in Marathi)	'Samshodhak', Vol. 49, No. 2, June, 1981.
		(iv) Magic Squares of Sanskrit Origin	'Journal of the Oriental Institute', Vol. 30, No. 3-4, March-June 1981.
6.	Dr. D. S. Joshi	(i) श्रीश्रीमोरा विस्तारनी हेडलीक कडेवते	'Svadyhaya', Vol. 19, No. 1, Dipotsavi issue October, 1981.
		(ii) वज्रिया रचित " रणव्यंज "	'Hindu Milan Mandir' Dipotsavi issue, October, 1981.

1	2	3	4
	(iii) "लोचमालिका"		'Nareshwara-no-nad' April 1981 to March 1982.
	(iv) इंधमां अटपटा लोग मासे		'Svadhyaaya', Vol. 18, No. 4, Janmastami issue August, 1981.
	(v) सामुमानी आवरी		'Svadhyaaya', Vol. 19, No. 1, Diposavi issue, October, 1981.
	(vi) इच्छिण्डु		'Svadhyaaya', Vol. 19, No. 2, Vasantapan-chami, issue Feb. '82.
7. Dr. Brahmadata	Review on :— Aurevaracarya krta Taititriyopani Sadbhasya varttika		'Journal of the Oriental Institute', Vol. 31, No. 3, March 1982.
8. Shri N. N. Shah	Review on :— "शुभराती इस्तपन सूची"		'Svadhyaaya', Vol. 19, No. 1, Dipotsavi issue October 1981.

## (b) Published Books and Brochures :—

Sr. No.	Name of the Author/s	Name of the book	Name of the Publisher
1.	Dr. D. S. Joshi	कवि गिरधरः जवन अने कवन	Oriental Institute, M. S. University of Baroda, Baroda.

## (c) Talks given at different Institutions/Universities :—

Sr. No.	Name of the Teacher	Institutions/Universities	Subject to the Talk
1	Professor A. N. Jani	(i) Sanskrit Vidvat Sabha, Baroda 17-8-1981 (ii) UGC Seminar on appreciation of Poetry, L. D. Arts College, Ahmedabad, 10-10-1981	Importance of Sanskrit. कव्यते आरवाए
2.	Dr. D. S. Joshi	(i) Shri Ranga Avadhuta Satsanga Mandal, Dharampur, 26-11-1981	श्री रंगअवधुतसुं जवन कार्य.

1	2	3
	(ii) Shri Ranga Avadhuta Mandal, दतलक्ति परंपरा Sarkhej, 10-12-1981	
3. Shri B. P. Pandya	(i) Akhil Bharatiya Pushtimar-giya Vaishnava Parishad, Rajkot, 29-4-1981 (ii) Zarola Jnati Samaj Dabhoi, 2-5-1981	Pustimarga Visva-dharma Shri Vallabhacharyaji
4. Dr. Brahmadata	(i) Bharatiya Vidya Bhavan, New Delhi (under the auspices of Vishva Sanskrit Pratisthan, New Delhi), 21-23 Dec. 1981	Textual Criticism : An Introduction.
5. Dr. M. M. Pathak	(i) Haveli Temple, Santarampur, 13-7-1981	"शुद्ध हैन वेदांत"

## (d) Participation in Inservice Programme :—

- (1) Professor A. N. Jani  
(i) Presided over two difference sectional meetings World Sanskrit Conference at Banaras Hindu University, Banaras.

## 5. Manuscripts Section

This section has a collection of 26,396 manuscripts in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian languages including a few in Persian and Arabic. Of these 124 were added during the year, out of which 7 were purchased and 117 are received as gift from (1) Smt. Taraben R. Shah (2) Dr. P. V. Pendse, Baroda.

During the year, 39 manuscripts were lent out to other Institutions, 12 to local scholars, 1 manuscripts was borrowed from other Institution for Research purpose and 178 were issued for work on the premises of the Institute.

A scheme of Preservation of Manuscripts with the subvention of Ministry of Education and Culture, Government of India New Delhi has been implemented since 26-3-1982.

## 6. Printed Books Section

The Institute has a well-equipped library having a collection of 40,382 books.

## (a) Books :

This year the Library received a grant of Rs. 2,500/- from the University. A grant of Rs. 1,500/- was also received for purchasing books for the Vishnu-purana Project.

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

	Books including bound periodicals	Total Value Rs.
Total number of volumes of the year	40,514	4,29,439-09
Number added during the year	434	3,996-11
<b>Total</b>	<b>40,948</b>	<b>4,33,435-20</b>

Out of the total number of books added during the year, 80 were purchased at the cost of Rs. 3,996-11 and 354 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 on basis now stands at 205 (7 by subscription and 198 by exchange).

7. **Publications**

(a) *Gaekwad's Oriental Series :*

Editing and publication of the Series is one of the main activities of this Institute. By now 170 volumes have been published under this Series. The following works were printed during the year :

- (i) Madhavanalakamakandala —By Dr. M. R. Majmundar  
(Reprinted with the 50% financial assistance from the Government of Gujarat)
- (ii) Shri Tracabhaskara —by Late Shri R. G. Sathe
- (iii) Shri Vaisesikasutram —by Muni Shri Jambuvijayaji
- (iv) Balakanda —by Late Prof. G. H. Bhatt  
(Fascicle 1 of Vol. I of Critical Edition of the Valmiki Ramayana)  
(Reprinted)

The following works are under print :

Tattavasaligraha, Vol. I

—by Late Dr. Ganganath Jha

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

- (1) Tilakamannjarikathoddharah —by Shri N. M. Kansara

8. **Translation Branch**

The following works are printed during the year :

- (a) *Shri Sayaji Sahityamala :*  
(i) કવિ ગિરધર : અવન અને કવન —by Dr. D. S. Joshi  
(ii) વનોષધિકોષ —by Prof. K. K. Shastri

(\*Reprinted with 50% grant of the Government of Gujarat)

The following works are under print :

- (b) *Shri Sayaji Baijnanamala :* —by Late Shri K. B. Dave  
સહસ્રલિંગ અને રુદ્રમહાલય  
અમક વારલા —by Dr. Upendra R. Bhatt

9. **Vishnupurana Project**

- (i) Completed the collection of four manuscripts (complete) and 2 manuscripts (respectively for અંશ VI and અંશ I, II and III).
- (ii) Checking of collection of 3 manuscripts (complete) and 3 manuscripts (partly) and the transcript of 1 manuscripts with the General Editor.
- (iii) Test-collation of 18 manuscripts for 2 chapters and rejected two manuscripts after examination.
- (iv) Examination of 44 new manuscripts at the Government Oriental Library, Madras, Adyar Library and Mysore Oriental Research Library, Mysore by the General Editor.
- (v) Copy of vulgate : one set almost complete.
- (vi) Preparation of final copy of insertion passages from the Devanagari manuscripts collated so far.
- (vii) Concordance of 4 printed editions અંશ I (complete) and અંશ II (Chaps 1-3)
- (viii) Text comparison of the Ratnagarbha and vulgate editions (complete) and the results were analysed with the General Editor.
- (ix) Collection of quotations from the commentaries of Gangadhara (complete) Narahari, (Chs. 1-6) and Shri Dharaiyya (અંશ I and II).
- (x) Collection for variants from the commentaries by Ratnagarbha (complete), Sridharaiyya (અંશ I and II) and Narhari) અંશ I, Chaps. 1-6).
- (xi) Verification and arrangement of the collation sheets brought from the Mithila Sanskrit Research Institute, Darbhanga.
- (xii) Identified 3 Nagari manuscripts from the Darbhanga set with 3 Nagari manuscripts already collated by us.
- (xiii) Procured the following manuscripts material from different Research Institutions :

## ( i ) Manuscripts on loan :

- ( a ) Sanket comm. by Gangadhara from B. J. Institute, Ahmedabad.
- ( b ) Vishnu Vallabh and Narahariya Comm. from Adyar Library, Madras.

## ( ii ) Transcripts :

One transcript from Saraswati Mahal Library, Thanjavur.

## ( iii ) Xerox Copies :

( a ) Serampore College Library Serampore ( W.B. ) — 1

( b ) Ranbir Sanskrit Library Jammu — 1

Total 2

## ( iv ) Microfilms :

( a ) Mysore Oriental Research Institute — 4

( b ) Bhandarkar Oriental Research Institute — 1

( c ) Bodllein Library, Oxford — 4

( d ) National Archives, Khatmandu, Nepal — 3

Total 12

## 10. Journal of the Oriental Institute

During the Nos. 3 and 4 of Vol. 30 and Nos. 1-2 of Vol. 31 were published. 154 and 120 subscribers were registred for Vol. 30 and 31 respectively and 165 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and Oriental learning.

## 11. Gujarati Journal ' Swadhyaya '

During the year Nos. 3 and 4 of Vol. 18 and Nos. 1 and 2 of Vol. 19 were published. 168 and 127 subscribers were registered for Vol. 18 and 19 respectively and 33 copies were sent on exchange basis.

## 12. Visitors

Sr.No.	Name and Designation	Date of Visit
1	2	3
1.	Smt. Mrunalini V. Sarabhai Hon. Director, Darpana Academy, Ahmedabad.	8-5-1981

2. Mr. Ouk Chea F. 15-5-1981  
Ad.-Joint-General Director,  
of Culture and Tourism,  
Ahuum Penh, Kampuchea.
3. Prof. G. Parthasarathi., 28-7-1981  
Prof. P. R. Brahmananda,  
Dr. T. N. Hajela  
( U.G.C. Visiting team to the Deptt. of Economics,  
M. S. University of Baroda ), New Delhi.
4. Mr. G. Sivaram Murti, 29-9-1981  
Director, National Museum ( Retired ),  
40, Shah Jahan Road, New Delhi.
5. Mr. John Alastair Ewan, 12-10-1981  
Senior Lecturer in Religious studies,  
St. Martin's College, Lancaster, England.
6. Mrs. Kamaladevi Chattopadhyaya, 28-1-1982  
20, Cunning Lane, New Delhi.
7. Mr. Goswamy Shyam Dixitji, 11-2-1982  
Bada Mandir, Bhuleshwar,  
Bombay.
8. Dr. Arion Rosu, 6-3-1982  
Sanskrit Scholar,  
French Centre for Scientific  
Research ( Institute of Indian Civilisation ),  
Paris.

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
<b>(a) Diploma :</b>			
1st year	306	175	481
2nd year	121	92	213
3rd year	76	72	148
4th year	44	43	87
5th year	40	42	82
Total	587	424	1011
<b>(b) Degree :</b>			
1st year	11	31	42
2nd year	12	15	27
3rd year	11	14	25
Total	34	60	94
<b>(c) Post-graduate Degree :</b>			
Junior	5	9	14
Senior	9	3	12
Total	14	12	26
<b>(d) Ph.D. :</b>			
	2	3	5
Total	2	3	5
<b>Grand Total</b>	<b>637</b>	<b>499</b>	<b>1136</b>

3. Staff

(a) Present Position :

The Staff of the College consisted of 4 Professors, 4 Readers, 35 Lecturers, 4 Tabla Accompanists etc., 9 Class III, and 11 Class IV employees.

(b) New Appointments :

- (1) Kum. Parul A. Shah  
(2) Shri Mahesh C. Shah

Lecturer in Dance  
Lecturer in Dramatics

4. Faculty Union Activities

- (i) Performing Arts Festival from 3rd September, to 7th September 1981 at Mahatma Gandhinagar Gruha from Students' Association was held in which Music, Dance and Drama in variety were performed in which veteran artists from Bombay, Madras etc. had participated and the programme was a grand success.
- (ii) Pt. Vishnu Digambar Paluskar Jayanti was performed on 2nd and 3rd December, 1981, in which Bharata Natyam Dance and drama show were presented in the evening and Vocal Music, Sitar and Violin Programmes by students and teachers in the morning.
- (iii) An Educational Tour to Mount Abu was organised by the students on 6th, 7th and 8th February, 1982 in which about 45 students participated.

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 numbers of books issued to them are as under :

	Number
(1) Average daily number of students making use of Library and/or reading room	52
(2) Average daily number of teaching making use of library and/or reading room	15
(3) Total number of books issued to students during the year	3145
(4) Total number of books issued to teachers during the year	1325

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

Particulars	Number	Cost in Rs.
(1) Book (including back number of Journals) as on 1-4-1981	9320	99,630-50
(2) Books added during the year	51	1,811-25
(3) Books as on 31-3-1982	9371	1,01,441-75
(4) Journals subscribed during the year	21	1,327-65
(5) Amount spent on binding during the year	—	199-40

## 6. Visitors

- (1) Smt. Kamal Tambe, Bombay 18th and 19th November, 1981.  
 (2) Shri S. S. Halḍankar, Bombay 8th, 9th and 10th February, 1982.  
 (3) Smt. Nirmala Ramchandran, Madras 25th and 26th February, 1982.

## 7. Highlights of the year

Seminar on Syllabus on Teaching Methods in Drama—Degree and Diploma Courses was held from 19th to 21st February, 1982 to draft a uniform course in Dramatics Courses on all India Level—in School and Colleges where “Dramatics” as one of the subjects or as one of the Special subjects is taught or where dramatics as a curriculum subject should be introduced.

Ten participants from outside and five local participants had taken part in the Seminar to decide the course.

## CHAPTER XIX—BARODA SANSKRIT MAHAVIDYALAYA

### 1. Courses of Studies

- (i) The regular full time courses of studies remained the same as in the previous year.  
 (ii) New courses started during the year 1981-82  
 (a) Shuddadvait Vedant course  
 (b) Shastra Chudamani

### 2. Number of Students

Number of students enrolled in various classes during the year 1981-82 was as under :

Courses	Men	Women	Total
<b>1. Certificate Courses :</b>			
<i>Pratham Kaksha :</i>			
1st Year	12	—	12
2nd Year	6	—	6
3rd Year	4	—	4
<b>Total</b>	<b>22</b>	<b>—</b>	<b>22</b>
<b>2. Diploma Courses :</b>			
<i>Madhyam Kaksha :</i>			
1st Year	70	6	76
2nd Year	30	2	32
3rd Year	4	—	4
4th Year	2	—	2
5th Year	2	—	2
<b>Total</b>	<b>108</b>	<b>8</b>	<b>116</b>
<b>3. Degree Courses :</b>			
<i>Uttam Kaksha :</i>			
1st Year	16	2	18
2nd Year	5	5	10
3rd Year	2	1	3
<b>Total</b>	<b>23</b>	<b>8</b>	<b>31</b>

4. *Post Graduate Degree :*

Junior	3	—	3
Senior	—	1	1
Total	3	1	4

5. *Veda Branches :*

(Certificate Courses) :

1st Year	14	—	14
2nd Year	7	—	7
3rd Year	8	—	8
4th Year	2	—	2
5th Year	2	—	2
Total	33	—	33

6. *Ph.D. Vachaspati :*

	2	—	2
Grand Total	191	17	208

7. *Evening Part-Time Courses :*

Geeta ( Children )	6	4	10
Yajurveda Yagnidiki	32	—	32
General Jyotish	104	3	107
General Palmistry	66	3	69
Total	208	10	218

3. *Staff*(a) *Present Position :*

During the year under report, the staff of the Institution consisted of 5 Pradhyapakas, 6 Upadhyapakas, 1 Part-time Teacher ( Pandit ), 3 Gurus, 2 Class III and 4 Class IV employees.

(b) *New Appointments :*

- Shri J. P. Parikh — Teaching Assistant
- Shri R. N. Joshi — Visiting Pradhyapaka in Dharma Shastra and Jyotish Shastra.
- Shri S. B. Shirgaokar — Part-time teacher in Vyakaran Shastra.
- Shri L. K. Godse — Guru in Shukla Yajurveda.
- Shri L. N. Ghule — Guru in Atharvaveda
- Shri V. B. Kaduskar — Guru in Rigveda.
- Shri C. P. Patel — Honorary part-time pradhyapaka in Shudda-dvait Vedant.

- Dr. A. N. Jani — Senior Scholar, appointed by the Central Govt., Ministry of Education and Culture, Department of Education, Government of India, New Delhi, for the course in 'Shastra Chudamani'.

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.	Dr. J. R. Pathak	मंगलमूर्तिगणेशः	The annual issue of the 'Surbharati', 1981-82.

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

Sr. No.	Name of the Teacher	University/Institution	Subject of the Lecture
1.	Shri C. P. Patel	Gujarat Itihas Parishad, M.T.B. Arts College, Surat	Krishna Charitra in Brahmbaivart Puran creditably with reference to other puranas.

(c) *Participation in Inservice Programme :*

Sr. No.	Name of the Teacher	Programme, Place and date	Capacity in which participated
1.	Shri L. M. Joshi	(i) Nadiad Astrological Society, Nadiad Dec. 1981	Participant
		(ii) Bhavishya Bharati, Ahmedabad, Dec., 1981	Participant

5. *Faculty Union Activities*

- (i) Shri Nilesh Shukla, student of Madhyam Kaksha I year (Jyotish Shastra) was elected as General Secretary M. S. University Union, M. S. University of Baroda.

- ( ii ) 31st Inter Faculty Cultural Competitions held on 1st February, 1982 to 4th February, 1982. The Institution won 2nd Prize in Group Song Competition.

### 6. Library

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

Particulars	Number
( i ) Average number of Students making use of the Library and/or the Reading Room daily	45
( ii ) Average number of Teachers making use of the Library and/or the Reading Room daily	20

The following figures shows the stock and the expenditure on the Library and/or Reading Room :

Particulars	Number	Cost in Rs.
( i ) Books ( Including back number of Journals ) as on 1-4-1981	6109	33,366-57
( ii ) Books added during the year	30	500-000
( iii ) Books as on 31-3-1982	6139	33,866-57
( iv ) Total amount spent for Library and/or Reading Room during the year	—	500-00

### 7. Visitors

P. P. Shri 108 Shyam Manoharlalji Maharajshri Mota Mandir, Bombay and P. P. Shri 108 Giridharlalji Maharajshri, Kamvan.

### 8. Faculty Publication

Name of the Journal	Editor	Month of the Publication
'Surbharati'	Shri J. R. Pathak	12-2-1982

### 9. Extra Curricular Activities

- ( i ) The Sanskrit Day was celebrated on 18-8-1981.  
 ( ii ) Antyakshari competition was held on 23-2-1982.  
 ( iii ) Elocution competition in Sanskrit was arranged on 25-2-1982 for awarded of Medal of Sharda Peeth Jagadguru Shankaracharya Maharaj of Dwarka.  
 ( iv ) Common Wealth Day was celebrated on 7-3-1982.

## 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 )	Arts :			
	(1) F.Y.B.A.	10	6	16
	(2) S.Y.B.A.	23	9	32
	(3) T.Y.B.A.	24	15	39
	Total	57	30	87
( ii )	Commerce :			
	(1) F.Y.B.Com.	584	105	689
	(2) S.Y.B.Com.	697	175	872
	(3) T.Y.B.Com.	245	53	298
	Total	1,526	333	1,859
	Grand Total	1,583	363	1,946

### 3. Staff

#### ( a ) Present Position :

During the year 1981-82 the staff of the College consisted of 1 Principal, 1 Teacher Supervisor, 17 Lecturers, 13 Teaching Assistants (Temporary), 6 Teachers coming from Baroda on work arrangement basis, 1 Physical Instructor, 17 Class III and 13 Class IV employees.

#### ( b ) New Appointments :

Sr.No.	Name	Designation
(1)	Dr. W. V. Ahire	Lecturer in Hindi
(2)	Dr. (Kum.) A. M. Dalal	Lecturer in Hindi
(3)	Dr. B. N. Kahar	Lecturer in Hindi
(4)	Kumari Richa S. Joshi	Teaching Assistant in Business Economics
(5)	Shri S. G. Sandhe	Teaching Assistant in Commerce

1	2	3
(6) Smt. Tara Thyagarajan	Teaching Assistant in History	
(7) Shri N. T. Shukla	Teaching Assistant in Business Management	
(8) Shri K. T. Soni	Teaching Assistant in Accounts	
(9) Shri P. S. Thakkar	Teaching Assistant in English	
(10) Shri A. R. Pandya	Teaching Assistant in English	
(11) Kumari A. M. Desai	Teaching Assistant in Psychology	
(12) Kumari J. N. Parikh	Teaching Assistant in Statistics	
(13) Kumari Ranjeet Kaur	Teaching Assistant in Business Economics	
(14) Shri H. C. Patel	Teaching Assistant in Business Economics	
(15) Shri M. H. Chokshi	Teaching Assistant in Accounts	
(16) Shri L. G. Kapadi	Teaching Assistant in Business Economics	

(c) *Teachers Transferred to Baroda :*

- (1) Dr. R. G. Sharma, Lecturer in Hindi
- (2) Shri J. S. Pathak, Lecturer in English
- (3) Shri O. P. Joneja, Lecturer in English
- (4) Kumari S. L. Sinha, Lecturer in Psychology

(d) *Teachers Transferred from Baroda to Padra :*

Shri R. R. Joshi, Principal and Lecturer in Mathematics.

#### 4. Professional Growth of the Staff

Shri O. P. Joneja, Lecturer in English, received the Degree of Doctor of Philosophy in English.

#### 5. College Union Activities

The following programmes were organised in the College during the academic year 1981-82 :

- (1) The College Students' Association organised a Debate on 31st December, 1981.  
"In the opinion of this House, the private tuition classes are detrimental to the long term interest of the students."
- (2) This year an Educational Tour to "Ajanta Ellora" was organised. 105 students and 4 teachers participated.
- (3) Under the Scheme of the Extra Mural Lectures, Dr. Suresh Joshi a well known Gujarati creative writer and former Head, Department of Gujarati, Faculty of Arts, Baroda delivered a lecture on "THE CRISIS IN EDUCATION" on January 12, 1982.

(4) Two N.S.S. Camps were conducted during the year, one at Ranapur and the other at Bachar.

(5) The N.S.S. wing of the Association organised a Blood Donation Camp in the College premises in collaboration with the Friends Society, Baroda. The students and staff members donated 52 bottles of blood.

#### 6. Library

The College has a separate Library. It received a grant of Rs. 5,000/- for the purchase of books, a grant of Rs. 3,000/- for periodicals and Rs. 1,000/- for Binding charges from the University.

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 :

Particulars	Number
(1) Average number of students making use of the Library and/or the Reading Room daily	180
(2) Average number of teachers making use of the Library and/or the Reading Room daily	18
(3) Total number of books issued to students during the year	12,300
(4) Total number of books issued to teachers during the year	3,560

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 number of Journals as on 1-4-1981)	10,271	1,49,953-66
		231	4,388-30
(2)	Books added during the year	10,502	1,54,341-96
(3)	Books as on 31-3-1982	41	2,995-90
(4)	Journals subscribed during the year		
(5)	Total amount spent for Library and/or Reading Room during the year	—	7,384-20

## 7. Visitors

Sr.No.	Name	Designation	Date
(1)	Shri Jashwantlal Shah	Prominent Leader of Co-operative movement in Baroda District	8-2-1982
(2)	Shri Ashok Chawla	District Magistrate of Baroda	8-2-1982
(3)	Shri M. K. Amin	Chief Donor for this College and leading Businessman, Bombay	8-2-1982

## CHAPTER XXI—POLYTECHNIC

## 1. Courses of Study

The courses of studies remained the same as on 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	358	9	367
(2) Second Year Diploma	553	13	566
(3) Third Year Diploma Final Year	754	8	762
(b) <i>Higher Secondary Post Diploma :</i>			
(1) First Year Diploma	205	—	205
(2) Second Year Diploma	196	—	196
(c) <i>Diploma Courses in Petrochemical Technology :</i>			
(1) First Year Diploma	46	—	46
(2) Second Year Diploma	59	1	60
(3) Third Year Diploma	60	1	61
(4) Final Year	45	1	46
(d) <i>Part-time Courses :</i>			
(1) First Year Diploma	209	—	209
(2) Second Year Diploma	298	2	300
(3) Third Year Diploma	121	—	121
(4) Fourth Year i.e. Final Year Diploma	152	—	152
Grand Total	3078	35	3113

## 3. Staff

(a) *Present Position :*

During the year report the staff of the Polytechnic as on 31-3-1982 consisted of 1 Principal, 4 Heads, 82 Lecturers, 4 Sr. Instructions, 71 Class III and 61 Class IV employees.

(b) *New Appointments :*

- (1) B. M. Patel —Lecturer in Electrical Engineering.
- (2) S. B. Khiste —Lecturer in Electrical Engineering.
- (3) J. T. Patel —Lecturer in Mechanical Engineering.
- (4) J. R. Mohite —Lecturer in Industrial Organisation.
- (5) K. R. Shah —Lecturer in Petrochemical Department.

(c) *Teacher upgraded to Higher Post :*

- (1) S. J. Gadhavi —Lecturer in Chemistry

(d) *Teachers who left the University :*

- (1) P. K. Panchal Lecturer in Civil Engineering Transferred to Department Faculty of Technology and Engineering.
- (2) A. J. Chauhan Lecturer in Civil Engineering Resigned Department
- (3) K. G. Patel Instructor in P.T.C. Engineering Resigned.
- (4) L. N. Shah Lecturer in English Retired
- (5) M. D. Jadhav Lecturer in Chemical Engineering Transferred

**4. Faculty Union Activities**

The students' Association carried out the usual activities viz. participation in Youth Festival, Indoor and Outdoor games, Celebrations of Polytechnic Day etc.

**5. Library**(1) *Acquisition Notes :*(a) *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. 17,876-18. 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	19,810	3,70,742-66
(2) Number added during the Year	1,304	42,733-36
(3) Number withdrawn from the record	—	—
(4) Number remaining at the end	21,114	4,13,476-02

(b) *Periodicals :*

During this year the Library subscribed to 43 periodicals. The total amount spent for the periodicals was Rs. 7,384-39 and the amount spent for binding was Rs. 3,585-60.

**2. Circulation of Books etc.**(i) *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 Sunday and Holidays.

(ii) *Statistics :*

Statistics for the use of the Library are given below :

(i) Daily average of readers making use of the Library	400
(ii) Daily average of the books for Reading at Home	151
(iii) Daily average of books for reading room	109
(iv) Total number of students registered	1888

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

1. Courses of Studies

The Centre conducted the following Long Term as well as Short Term Courses during the year 1981-82 :

(a) Long Term (One Year) :	Men	Women	Total
(1) Industrial Purchasing and Material Management	173	5	178
(2) Marketing Management	77	8	85
(3) Industrial Management	45	—	45
(4) Hotel Management	21	16	37
(5) Adult Education Classes	180	486	666
Total	496	515	1,011

(b) Short Term (Summer Courses) :	Men	Women	Total
(1) English Improvement	27	7	34
(2) Interior Decorator	5	57	62
(3) Income-Tax and Central Excise	29	—	29
(4) Income-Tax and Sales-Tax	51	7	58
(5) Office Management	13	17	30
(6) Cookery	3	17	27
(7) Batik on Textiles	—	24	14
(8) Classical Music	—	14	17
(9) Light Music	5	12	44
(10) Painting for Beginners	25	19	8
(11) Painting for Beginners	2	6	
(11) Family Planning Health and Sanitation in the Community of Adult Education	—	50	50
(12) Child Care in the Community	—	60	60
(13) Tailoring Class in the Community	25	150	175
(14) Box making and Book Binding in the Community	25	75	100
(15) Candle making Training for Student Teacher	2	3	5
Total	212	501	713
Grand Total	708	1,016	1,724

2. Staff

The Centre has the following staff one Professor, one Reader, three Lecturers, one Head Clerk-cum-Accountant, one Typist, one Daffatari and one Peon. The NAEP cell has one Project Officer, one Co-ordinator, one Clerk and one Typist.

3. Professional Growth of the Staff

- (i) Dr. M. Chakravorty (i) attended Delhi Seminar on "Adult Education for Women" from 27th April, 1981 to 2nd May, 1981.
- (ii) Attended Adult Education Seminar held at Patna from 15th to 25th October, 1981, and presented paper on "Adult Education, A New Dimension".
- (iii) Attended Annual Seminar and General body meeting of IUACE held at Chandigarh from 23rd to 24th March, 1982 and presented paper on "Continuing Education and University".

4. Research and Publication

- (i) Completed Research Project Report on "Evaluation Study of the Scheme of Functional Literacy, for Adult Women, Chhota Udaipur, Baroda, Gujarat". (A project sponsored by the Ministry of Education and Social Welfare, Government of India, New Delhi).
- (ii) Published a Book named "A Year Programme for Adult Women" (Teacher's Guide) in October, 1981.

5. Activities of NAEP

- (i) Kalpana Shah and J. C. Tahilramani, (i) Completed a Training Programme for Project Officers/Supervisors (NAEP) at Ahmedabad for 10 days.
- (ii) Delivered 12 lectures on aims and objectives of literacy in the community of Adult Education Centre.
- (iii) Delivered few lectures on child care, immunisation and cleanliness and also demonstrated posters in the community.
- (iv) One training programme for Student Teacher (Candle making) was organised for 3 days.
- (v) One hundred and five Adult Education Centres (Literacy) were conducted from which eighty A.E. Centres have completed 10 months duration successfully.

## 6. Visitors

- ( i ) Mrs. M. Smeth lecturer and member in charge of Indian Welfare Committee in England, visited the Centre to study the problems and approach to Indian Community. She also visited an Adult Education Class run ( NAEP ) by the Centre.
- ( ii ) Mr. Sharma, The Director of Adult Education, Directorate of Adult Education, Ministry of Education, New Delhi, visited the Centre in February, 1982.
- ( iii ) A term of visitors from London University came to study Adult Education Programme of M. S. University.

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

### 1. Training Programme of the Fourth Batch ( December, 1980 to May, 1981 )

The training Programme of the 4th Batch ( consisting of 16 trainees ) prior to the Preliminary Examination was concluded by the end of April, 1981. All the trainees who attended the Centre appeared in the Preliminary Examination held by U.P.S.C. in June, 1981. Three of them cleared the Preliminary Examination. All of the appeared for the main Examination held by Union Public Service Commission. None of them, however, cleared the Main Examination.

### 2. Intensive Training Programme for Candidates who cleared their Preliminary Examination held in June, 1981

Three candidates of the Centre mentioned above and some 3-4 candidates from Gujarat ( Mostly employed in public and private sector organisations ) 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 soon. In all 20 lectures were held. Also, 5 talks were arranged on " Current National and International events " and " Political Science ".

One trainee of the First Batch who appeared for the main Examination once again on his own from Gujarat University Ahmedabad Centre, cleared the Main Examination. He has also been selected as Class I Officer of Government of Gujarat Police Service and is, undergoing training at the Police Training Institute at Junagadh.

### 3. " Catch them Young " Training Programme for Bright Under-graduates

In pursuance of the decision taken last year, the pamphlets prepared for the S.Y. and T.Y. students of the different faculties of the University, regarding the programme, were circulated in all Faculties in the month of June, 1981. There was enthusiasm among the trainees who came forward to register their names from the various faculties. During the period of September to November, 1981, lectures were arranged for these trainees in Geography, Indian History and Politics.

#### 4. New Session of the Centre for coaching the Trainees for the Year 1982 UPSC Examination (Vth batch)

As usual, Advertisements were published in the Baroda and Ahmedabad Newspapers—Loksatta and Times of India—in November 1981, inviting applications from bright students for admission to the Centre. The process was delayed this year in the month of July, 1982, Government of Gujarat instructions were received stating that no activities of the Centre during the year 1981-82, may be started without further instructions of Government. It was in the last week of November, 1981 that Government of Gujarat informed that the activities be continued during the remaining period of the year 1981-82 and that from the year 1982-83, the new scheme may be mentioned by Government will have to be implemented.

Over 100 application forms were collected by the students and about 58 were received duly completed. The candidates were interviewed by the Deputy Director and 43 trainees were selected for training, taking into consideration their educational qualifications and general awareness. All of them were informed about their selection and were asked to come to the centre for instructions regarding the Training Programme.

New session of the Fifth Batch commenced from 11th January, 1982 out of 48 trainees selected for the current session. Arrangement for coaching in Optional subjects were finalised with the faculties concerned, and coaching was arranged for the Optional subjects of History, Geography, Chemistry, Economics, Zoology, Botany and Psychology.

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

Assessment Tests—Objective type—in "General Studies" were held at the end of every month with nearly 150 questions on various topics under "General Studies" were set. Two tests of General Studies and Optional Subjects-Descriptive type were also held in the month of May 1982.

One of the features of this year's training programme was to invite IAS Probationers who come in a batch of 25-30 to Baroda, as part of training to see industries like IPCL in their Bharat Darshan Programme. These probationers discussed with the trainees their subjects and how they prepared for the Preliminary and Main Examination and also about their Viva, the questions asked etc. They gave valuable hints to our trainees in preparing for All India Services and other competitive examinations.

A documentary film showing the working of the Union Public Service Commission from the stage of applications for the UPSC examinations upto interviews by the Panel of members of UPSC has been purchased by the Centre and was shown to the trainees of the fifth 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 Computer Centre which was established with a generous grant from the UGC in April 1980, has obtained a sound footing during its age. During the year 1981-82, the expansion of the building of Computer Centre was completed providing additional office space, classroom and space for accounts section.

During the year under review the Computer Centre received as a gift from M/s. New India Industries Ltd., Baroda, One IBM Key Punch and One IBM Verifier Machine for the use of the students and scholars. In addition to this the centre purchased the following Off-Line Peripherals from the fund provided by the UGC.

- (1) Two Automatic Key Punch Machines with print facility.
- (2) Six Disk Pack data Storage.
- (3) 40 Magnetic Tapes.

With the above additional facilities the Computer Centre could attract more scholars and students to the centre. It may be noted that the establishment of the Computer Centre is essentially for the use of scholars of our university and the centre has to continuously work to attract more and more scholars and spread computer culture among the various communities of the University including the administration. During the previous year the average use of computer has been at about 10-12 hours per day.

The centre completed system designing and developed a programmes for the salary system of the employees of the University and it is hoped manpower will be available to actually make the salary bills on computer in the immediate future. The centre has helped in various projects taken-up by the staff members to have their analysis done on computer.

The facilities of the Computer Centre are extended to a number of educational institutions like S. P. University, SVR College of Engineering P.R.L., Railway Staff College, SAC-ISRO and many others. In addition to the usual of previous years, this year Gujarat University, Indore University etc. has added to the list of academic users.

In addition to the above, the centre is also assisting Government Public sector departments like Narmada Project, I.P.C.L. ONGC, Gujarat Refinery, G.E.B., etc. in their development and project work. The centre is also helping few industries like Hindustan Brown Boveri Ltd., Baroda Elecon Engineering Co. Ltd., ORG, and a few others in their Research and Development/Project work.

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)

This year B.Tech (Computer Science) a Four Years Degree course in Computer Science and Technology has been started in the Faculty of Technology and Engineering which will require extensive use of the computer as their main laboratory for their training. The Computer Centre offered a 10 weeks course in Programming for the scholars and teachers of our university during the summer of 1981. In the coming year the centre is to start half yearly certificate courses in Computer Science and Programming for graduates which undoubtedly will provide the graduates with a powerful tool to get an easy employment and at the same time help reduce the shortage of computer professionals on a national scale.

With all the above, it may be pointed out that the work of the centre is handicapped because of shortage of technical staff. Although it is a national problem, ways and means have to be found out to recruit qualified staff. The University floated All-India advertisement a number of times without much success.

The recurring expenditure of the Computer Centre is being borne by the UGC during its first five years in a sliding scale and the rest of the expenditure is met from the earnings of the centre as stipulated by the UGC. It is therefore, essential that the centre be allowed to earn money in order to be self-supporting. With this in view, computer time is also rented out to the Government department, R and D organisation etc. The UGC under its conditions for establishing the centre stated very clearly that the earnings accrued out of limited users outside the university must be kept aside and be used for the maintenance and development of the Computer Centre only. During the year under review the centre earned approximately Rs. 7.25 lakhs out of which about Rs. 2.25 lakhs were spent towards the recurring expenditure of the centre, giving a net income of Rs. 5.00 lakhs which added to the previous year's saving a total of about Rs. 8.00 lakhs reserved fund for the Computer Centre. The activities of the centre will increase with the starting of the First Degree Course in Computer Science and Technology as well as the post-graduate course in Master of Computer Application to be started soon. Both the courses will use the Computer Centre as its main laboratory and the UGC has granted sanctions for Non-recurring expenditure for expansion of computer equipment facilities as well as library and recurring grant for teaching and technical staff.

## CHAPTER XXII-D—UNIVERSITY HEALTH CENTRE

During the year over and above the regular staff of the University Health Centre there was an addition of the post of Full time Clerk. There were also two practitioners in the City for the services to University employees staying in the city area. The teaching and non-teaching employees along with their dependents were also given benefit of free medical services at the Government dispensaries and S.S.G. Hospital, Baroda.

The Health Centre provided general preliminary health care to the University students, staff members and their dependents.

The Health Centre provided preventive and curative services for Malaria to students, members of the staff and their families. It also provided the services of oxygen therapy, Intra venous infusions, Intra red lamp, Hot water bags, Ice-bags, Bed Pans, etc. at the Health Centre and for domestic use.

The Health Centre also provided Physical Fitness Certificates for University Services, for admissions in the different faculties, for different training camps and other activities. It also conducted a programme of Medical-check-up to the mess servants working in the Halls of Residence. The new facility of pre-employment Medical examination for Physical Fitness at the Health Centre for the teaching appointments was also introduced this year.

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

A compulsory Medical Check-up including X-Ray was held for all the new entrant students in the University, by Medical Inspection Board in S.S.G. Hospital, Baroda. Out of the total 6,448 new students scheduled for medical check-up 4707 students reported. Out of the total examined 2,182 students were recommended for follow-up treatment from different specialists either at Health Centre or at S.S.G. Hospital.

During the year 42 candidates were issued Physical fitness certificate for Joining Services in the University.

The total attendance of the patients during the year at the Health Centre was 35,935 (29,255 were the members of the Staff and their families and 6,680 were the students).

The total number of different laboratory investigations at the Health Centre were 2,381 and the fluoroscopic examinations were 636.

The total expenditure of Medicines etc. during the year was Rs. 81,221-05. The amount of Rs. 49,136-64 were paid as the reimbursement of Medical expenses and special allowance to the patients suffering from T.B., Cancer etc. to the University Staff members and their families dependents, as per M. S. University employees Medical Attendance Rules, 1977.

## CHAPTER XXIII—SHRIMATI HANSA MEHTA LIBRARY

## 1. Order Section

*Acquisition Notes :*(a) *Books :*

The University Grants Commission sanctioned Rs. 5,00,000 and paid Rs. 3,00,000 out of it for the purchase of books and journals during the year 1982-83 from the Sixth Plan allocation.

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.

The Department of Bio-chemistry also received a non-recurring grant of Rs. 1,50,000 and a recurring grant of Rs. 20,000 per annum under the Programme of Special Assistance Phase II for a period of Five years 1980-85. The grant is being utilized.

There have been some noteworthy additions during the year viz., Grande Encyclopedia Portuguese a Brasileira, 40 Vols., Decennial Index to India, 1967-1977, 1979; The International Geographic Encyclopaedia and Atlas, 1979; The International Encyclopaedia of Statistics, 2 Vols., 1978 The Oxford American Dictionary, Comp. by E. Ehrlich and others, 1980; The Dynamics of a Tradition, Kasturbhai Lalbhai and his Entrepreneurship by D. Tripathi, 1981; My Own Boswell, Memoirs of M. Hidayatullah, 1980; Indian Government and Politics, a Bibliographical Study, 1885-1980 Comp. by M. S. Rana, 1981.

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

<i>Institution</i>	<i>Number of Books</i>
(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)	2,666
(2) Faculty of Technology and Engineering	1,224
(3) Faculty of Fine Arts	35
(4) College of Indian Music, Dance and Dramatics	51
(5) Oriental Institute (Printed Section)	434
(6) Polytechnic	1,304
(7) Sanskrit Mahavidyalaya	21
(8) Centre of Advanced Study in Education	460
(9) M. K. Amin Arts and Science College and College of Commerce, Padra	231
(10) Faculty of Social Work	50
	6,476

Out of these 1,425 were received as gift.

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

	<i>Books</i>	<i>Bound Vols. of Periodicals</i>	<i>Manuscripts</i>	<i>Maps, Charts etc.</i>	<i>Total Value in Rs.</i>
(1) Number at the beginning of year	2,98,152	48,856	251	1179	1,06,27,418-97
(2) Number added during the year	2,666	1,120	—	29	4,77,998-29
(3) Number remaining at the end of the year	3,00,818	49,976	251	1208	1,11,05,417-26

(b) *Periodicals :*

The total number of periodicals and scholarly journals subscribed was 746 and 1,120 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	2666
(b) New Accessions to Faculty Libraries	3810
	Total 6476

(c) Bound Periodicals Catalogued and Classified 1120

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

	<i>For University Library</i>	<i>For Faculty Libraries</i>	<i>Total</i>
(1) Cards types	7998	19050	27,048
(2) Cards filed in the Catalogue	7998	19050	27,048

## 3. Circulation Section

As usual the working hours of the Library for the whole academic year i.e. April, 1981 to March, 1981 (except in the months of August, September, 1981) 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.

Due to medico agitation, the examinations were held late i.e. in the months of May, June and July, 1982 the Library remained open from 8-00 a.m. to 10-00 p.m. on all days even on Sundays and Holidays.

In the months of August and September 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 :

(1) Post-graduate Students	2,815
(2) Under-graduate Students	6,918
(3) Research Scholars	183
(4) University Teachers	653
(5) Others	64
Total	10,633

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	1,481
(a) Average number of books issued per day for home reading from General Collection	253
(b) Average number of books issued per day from Curricular Collection	776
(c) Average number of books issued per day from Stacks	246
(d) Average number of books issued per day from Curricular Collection of the New Library	204
(iii) Average number of books issued per reader in the year	37

#### 4. Reference Section

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

Reference Service has been playing an important role in the 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.

##### (ii) Orientation Programme :

In the beginning of the academic session, the Reference Section conducted an orientation programme intended to acquaint and familiarise new entrants with 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 could make the best use of the Library and help themselves in finding out their requisite materials.

##### (iii) Exhibitions :

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

##### (a) Special Exhibition :

- (i) Disabled persons,
- (ii) U.N. Day,
- (iii) Our Achievements,
- (iv) Domestic Animals,
- (v) Saivism,
- (vi) Mother Teresa.

##### (b) Weekly Exhibition :

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

##### (iv) Bibliographical Activities :

Bibliographics on the following topics were compiled during the period :

- (a) War and Peace,
- (b) Castes in India,
- (c) Computer,
- (d) Communication and Development,
- (e) Vocational Guidance,
- (f) Paediatrics.

##### (v) UNESCO Information Centre :

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

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

In response to the appeal of Indian Library Association regarding the celebration of the Fourteenth Library week the Reference Section carried out the following activities :

- (i) An exhibition of books, journals, Pamphlets, charts prints, etc. was arranged on Ancient Libraries.

- (ii) Students of the Secondary Schools of Baroda were invited in groups to visit our Library.
- (iii) "Meet Together" of the members of the staff of our Library was arranged where discussion was held on "How Libraries can be useful to the Nation".
- (iv) Students of the Department of Library Science were given responsibility for one day on different servicing counters.
- (v) Students were encouraged to read more books.

(vii) *Thesis and Dissertations :*

- (i) During the period, 158 Theses and Dissertations were added to the collection of 4,178 bringing the total collection to 4,336.
- (ii) During the period 1,418 readers consulted the theses and dissertations.
- (iii) A descriptive list of Ph.D. Theses received in the Library from January, 1981 to December, 1981 was published.

(viii) *Reference Material :*

During the period, 1,521 readers consulted the reference books and other reference material.

(ix) *Pamphlets Collections :*

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	19,021
(ii) Number added during the year	646
(iii) Number withdrawn from the record	988
(iv) Number remaining at the end of the year	18,679

5. **Sir Sayajirao Memorial Trust Library**

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

(i) Average number of readers visiting the Library per day	1,862
(ii) Average number of books issued per day from Curricular Collection	204

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

### 1. Staff

During the year, the staff of the Press consisted of a Manager, a Deputy Manager, an Assistant Manager, a Head Clerk (Accounts and Stores), a Clerk, one Head Proof-Reader, one Junior Proof-Reader and a Copy Holder. There are 43 permanent workers in the Press.

### 2. Machinery

The Press has machinery worth Rs. 2,68,630 - including machinery worth Rs. 1,19,350 - purchased from the grant of the University Grants Commission.

### 3. Printing Activities

During the year, 590 plus 1,427 examination papers were printed under conditions of secrecy for the University Examinations. The Press also printed Syndicate and Senate proceedings, details of Establishment, Annual Accounts, Annual Report, Budget Estimates, Questionnaires, Magazines, Pamphlets, Certificates, General forms, Prospectus etc. of the Faculties and Institutions. The University Press works purely as a service department of the University since April, 1967.

(a) *The following is the list of books printed by the Press during the year :*

Name of the Book	Publisher
1. Handbook of Nutrition, Health and Sanitation (Environmental)	Faculty of Home Science
2. Baroda College Centenary Celebrations Souvenir	Faculty of Arts
3. માધવાનલ કામકદલા પ્રબંધ	Oriental Institute
4. Taxidermy	Faculty of Fine Arts
5. Economic Factors Explaining variations in Literacy Rates in Rural Areas	Faculty of Arts
6. પ્રો. બ. ક. ઠાકોરની કવિતા	Gujarati Department
7. વનૌષધિકોશ	Oriental Institute
8. કવિગિરધર જીવન અને કવન	Oriental Institute
9. વૃક્ષભાસ્કર	Oriental Institute
10. Valmiki Ramayana Vol. I Fascicule I બાલકાણ્ડ	History Department
11. Persian and Arabic Epigraphy of Gujarat	

12. Concepts and Clarity Faculty of Arts  
 13. Growth, Productivity and Technical Progress in Electricity in India Department of Economics  
 14. Urban Co-operative Banks-Role and Development in India with reference to Gujarat Faculty of Commerce

(b) *The following is the list of Journals Printed by the Press during the year :*

- (1) The Journal of M. S. University of Baroda.
- (2) The Journal of Oriental Institute.
- (3) The Journal of Animal Morphology and Physiology ( Half yearly )
- (4) Swadhyaya ( Quarterly ).
- (5) PAVO ( Half yearly )
- (6) Studies in Museology ( yearly )
- (7) Baroda Journal of Nutrition ( Yearly )
- (8) Social Work Review ( Yearly )
- (9) Surbharti ( Yearly )

#### 4. University Stationery Unit

This Unit is a service department of the University and is under the supervision and control of the University Press Manager. It purchases and distributes stationery every quarter to all the Faculties and Institutions and the University Office. It has One Senior Clerk, Clerk, One Rikshaw Driver -cum-Stationery distributor and One Helper.

During the year under report, the stationery articles worth Rs. 5,67,335-42 were purchased and stationery worth Rs. 6,23,647-10 were distributed.

#### 5. University Publications Sales Unit

This Unit is under the control and supervision of the University Press Manager. It consists of a Senior Clerk, a Clerk and one outdoor Work Assistant-Attender. It also works as a book-shop for University Publications. The total value of Sales during the year was Rs. 1,03,018-49.

## CHAPTER XXV—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

The M. S. University Union is a corporate body of the students and teachers of the University for promoting Sports, Cultural and Welfare activities on the campus.

### 1. Executive Committee

The Union Executive Committee for the year 1981-82 consisted of the President, Shri R. M. Pancholi, Vice-President Shri Hector Patel, General Secretary Shri Nilesh J. Shukla, Treasurer Shri R. A. Vakil Films Secretaries, Indoor Games Secretaries, Hiking Club Secretaries, Badminton Secretaries, Entertainment Secretaries, Public Relations Secretaries, Emester, Campus Beautification Secretaries, Debates and U. No. Secretaries and moreover four members were nominated by the M. S. University Syndicate to the Union Executive Committee. The Executive Committee was further assisted by the University Board of Sports, Student's Welfare Board and Student's Aid Fund Committee.

The 1982 elections were held according to the new constitution last year. Tuesday, the 6th October, 1981 was fixed as the date for elections. The President under O.126 assigned different posts to the Secretaries according to their choice. The first meeting of the Executive Committee was convened by the President on the 17th October, 1981 and the Union Budget meeting was held on the 24th October, 1981 where the budget prepared by the Treasurer was un-animously passed.

The Union Executive meetings were held regularly every Saturday during the term except on holidays.

The decisions of the Union Executive were conveyed to the Patron. One of the important decisions on which the Syndicate acted promptly was to change the rules of the Faculty/College Students' Associations so as to eliminate indirect elections "perilled by panellism".

### 2. Union Activities

(i) The Union Secretaries ran the following clubs for the students and teachers :

Badminton Club, Table Tennis Club, Hiking Club, the films club arranged cinema shows during the University Youth Festival.

(ii) The Union Periodical "The Emester" could be published only once this year due to the high cost of printing and paper. But

cyclostyed news bulletins were issued during the days the of University Youth Festival Competitions.

- (iii) The University Youth Festival was organised during the first week of February, 1982. During this week inter Faculty Sports and Athletics competitions, dramas, Dance and Song competitions, Elocution, competitions Treasurer Hunt, General knowledge, Quiz contests etc. was held. The winner's shows were held free of cost for all the teachers students on the campus.
- (iv) The Annual Fun Fair was held on February, 26-27, 1982. We were happy to get good sponsors for the Fun Fair which made it possible for us to save a large amount of money from the gate-collection. The entry for students and teachers was free of cost. The surplus amount was rendered to the general fund of the Union. The receipts from the Fun Fair was a record amount collected so far by any Union Executive in the past. The Union Executive decided to spend Rs. 40,000/- Rupees Forty thousand only from this fund for constructing hardsurface Basket ball court. The University Engineer has prepared the plans and the work in progress.

## CHAPTER XXVI—STUDENT'S RELATED ACTIVITIES

### 1. Halls of Residence

The University being a residential University makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949, the University had accommodation for 200 men in rented buildings. There was no hostel accommodation for women students. There are now 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 to different halls so that every hall has students from different faculties. At the end of the year under report 2674 and 704 respectively in 1980-81. The annexed statement gives the breakup of these students by Halls of Residence and Institutions.

In the men's Halls of Residence, there is one honorary Warden and in the Women one paid full time Superintendent in each hall to look after the residents. The administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and Warden's Committee.

All the Halls have been provided with common rooms which are generally used as Library-cum-reading room also. The Halls are also provided with furnished visitor's rooms. Indoor games are also provided in the Halls. Every hall has been provided the facility of Water Cooler.

The Chief Warden's Office has a staff of 9 Class III and 2 Class IV employees.

The central Committee and the following three sub-committees were formed (i) Inter Hostel Food Committee, (ii) Inter Hostel Sports Committee and (iii) Inter Hostel Entertainment Committee.

The Chief Warden Halls of Residence, was the Chairman of the Central Committee.

Students are also members on the above committees. Apart from these committees each Hall of Residence has its own Executive Committee composed of the Students members duly elected by the resident Students of the Halls. 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. Physical Education Department

### (1) Staff :

The Staff consists of a Director, One Instructor ( women ) Five Instructors, One Hockey Coach, One Swimming Trainer, One Boating Trainer, One Asstt. Swimming Trainer, and One Life Guard.

### (2) Training in Physical Education :

Training in Physical Education was imparted to 1000 Men students and 757 Women students from various Faculties and Institutions.

### (3) Training and Coaching in Games and Sports :

(1) Cricket ( M-70, and W-20 ) (2) Tennis ( M-300 and W-10 ) (3) Hockey ( M-30 and W-20 ) (4) Football 25 (2) Kho-Kho ( M-25 and W-13 ) (6) Track and Field Events ( M-10 and W-2 ) (7) Kabaddi 28 (8) Volley ball 15 (9) Basket ball ( M-35 and W-30 ) (10) Swimming ( M-350 and W-225 ) (11) Boating ( M-120 and W-14 ) (12) Shooting ( M-10 ) (13) Cycling 10.

(The numbers in the bracket before the games indicates the regular attendance of the respective games ).

Their were 565 members including Men and Women students in Swimming. In Boating the number was regular and vacational including the students. The special Coaching was provided by the honorary Coaches and Officer-in-Charge in the following games and sports :

Cricket ( M and W ), Football, Volleyball, Basketball ( 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 :

1	2	3	4
Name of the Game	Venue	Results	
1. Basketball ( Men )	Udaipur	Secured IV Place in West Zone.*	
2. Basketball ( Women )	Ernakulam	Reached upto quarter Final	
3. Table Tennis ( Women )	Pune	Runners-up in	
4. Table Tennis ( Men )	Pune	Reached up to quarter Final	
5. Football	Madgaon ( Goa )	Lost in First round	
6. Hockey ( M )	Jhansi	Lost in First round	

\*Remarks : Reached upto league and secured IV Place.

1	2	3	4
7. Hockey ( W )	Ranchi	Lost in First round	
8. Swimming ( M )	Trivendrum	No Place secured	
9. Kabaddi	Vallabh Vidyanagar	Lost in first round	
10. Cricket ( Men )	Aurangabad	Qualified for Semi Final in West Zone	
11. Cricket ( W )	Indore	Reached upto the quarter Final	
12. Cycling	Patiala	Given satisfactory Performance	
13. Kho-Kho ( M )	Ajital ( Etawah )	Reached upto Quarter Final	
14. Athletics	Varanasi	Rajan Desai of Tech. and Engg. reached upto Finals in High Jump.	
15. Best Physique	Kurukshetra	Reached upto second round.	
16. Boxing	Chandigarh		

### (b) High lights :

#### (i) Football

: Shri Silvester D'souza of Faculty of Commerce was selected for Pre-Asian Coaching Camp held at Calcutta.

#### (ii) Cricket ( Men )

: The following players played for Baroda team in Ranji Trophy Match held at Sholapur.

- (1) Shri Sanjay Hazare—Commerce
- (2) Shri Snehal Parikh—"
- (3) Shri Viresh Dhaibar—"
- (4) Shri Amar Patiwale—"

Shri Sanjay Hazare was awarded the best fielders' Prize of Rs. 251/- on his first debut at Sholapur in Ranji Trophy Match M.S.U. Team become champion in Randle Cup Cricket Tournaments held at Baroda.

#### (iii) Cricket ( Women )

: Kum. Mangala Babar ( Music College ) was selected for Womens Indian Cricket team which toured Australia.

#### (iv) Basketball ( Men )

: Participated in Baroda District Basketball Tournaments and won the Championship.

1	2	3
(v) Basketball (Women)	:	Won the Championship and secured the Ramayan (Glues and Chemical) Shield.
(vi) Hockey (Women)	:	Kum. Kalpana Bhavsar of Arts was selected for Pre-Asian Coaching Camp in Hockey held at Chandigarh. Won the Championship in Open Baroda Knock out Tournaments. Kum. Patil Vatsala Students of Music College lead the Gujarat State Hockey team Women, in XXXV National Women's Hockey Championship 1981 held at Ahmedabad.
(vii) Table Tennis (Women)	:	Women's team consisting of following three players remained Runners-up and Secured Second Place in All India Inter-University Table Tennis Tournaments held at Pune. (1) Kum. Chandrika Zulasana—Com. (2) Kum. Meena Kanani—Arts (3) Kum. Kirti Kotak—Science
(viii) Athletics (Men)	:	Shri Suresh Monen of Commerce finished III in 400 Mts. Running in Gujarat State Athletic Meeting held at Ahmedabad.
(ix) Athletics (Women)	:	Kum. Jackuline Fernandes won 1st position in long Jump in Gujarat State Athletic Meet held at Ahmedabad.

(c) Other Important Events :

(i) Cricket (Men)	:	The following players were selected for Vizzy Trophy : (1) Sanjay Hazare—Commerce (2) Hemant Pandya— (3) Amar Patiwale (4) Pasudev Patel Ranji Award for All Rout Best Cricketer was awarded to Shri Sanjay Hazare of Commerce.
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1	2	3
(ii) Hockey (Women)	:	The following players were selected to represent Gujarat State in Junior Nationals : Shri Arvind Begal—Polytechnic Barot Bhushan—Commerce Syeed Munirali —Polytechnic Suresh Pawar—Commerce
(iii) National Championship	:	Shri Lalit Watts of Arts represented Gujarat State in National Championship held at Calcutta.
(iv) Hockey (Women)	:	The following Women players were selected to represent Gujarat State in National held at Ahmedabad. Kum. Patil Vatsala (Captain)—Music College Kum. Patel Kalpana —Commerce Kum. Pillai Shanti —Commerce Kum. Pareira Juliana —Commerce Kum. Christian Nimisha —Commerce Kum. Bhavsar Kalpana —Arts The following Students were selected for Gujarat State Hockey Team to participate in National Women's Festival held at Hyderabad : Kum. Patil Vatsala —Music College Kum. Patel Kalpana —Commerce Kum. Handa Nidhi —Commerce Kum. Pareira Juliana —Commerce Kum. Joshi Rekha —Medicine
(v)	:	
(vi) Basket Ball (Men)	:	The following were selected to represent Gujarat State in National Championship: (1) Shri Justus N. W.—Tech. and Engg. (2) Sanjay Singh Gill—Science The following players were selected to represent Gujarat Team in Junior Nationals : Shri Patel Raju B. —Medicine Shri Alexzander —Commerce Shri Sanjay Singh Gill —Science

1	2	3
(vii) Basketball (Women)		: The following Women Players were selected to represent Gujarat State in National Championship held at Ludhiana Kum. Bagal Sundhaya —Commerce Kum. Bagal Bharati —Commerce Kum. Neena Correa —Arts Kum. Patel Neela —Home Science Kum. Adi Anjali —Science
(viii) Kho-Kho (Men)		: The following players were selected to represent Gujarat State in National Championship held at Ichalkaranji (Maharashtra): Shri Shah R. P. —Commerce Shri Shah M. P. —Commerce Shri Bhonsle Ajit —Commerce Shri Mali Manu —Commerce Shri Lele Ajit —Science
(ix) Kho-Kho (Women)		: The following Women players were selected to represent Gujarat State in National Championship held at Ichalkaranji (Maharashtra): Kum. Rekha Panhalkar —Fine Arts Kum. Pradhan Sangita —Arts
(x) Football		: Shri Sujitdasgupta represented Gujarat State for Santosh Trophy (National Tournament).
(xi) Table Tennis		: Following Women players participated in National Table Tennis Tournaments held at Palghat (Kerala): (1) Kum. Chandrika Zulasana—Com. (2) Kum. Meena Kanani—Arts.
(d) Other State Level Tournaments :		
(i) Basketball (M)		: Runners Up—Denial Soul Tournament
(ii) Kabaddi		: Participated in All Gujarat Kabaddi Tournaments.
(e) State Tournament :		
(i) Basketball (W)		: Runners up—Gujarat State Championship

1	2	3
(ii) Basketball (M)		: Reached upto Semifinals
(iii) Hockey (W)		: Open Gujarat State Hockey Women Championship held at Ahmedabad—Runners up.
(iv) Volleyball (M)		: Participated in State Championship.
(v) Athletic		: (a) Shri Suresh Menon--of Commerce finished III in 400 Mts. Running—Open men. (b) Shri Rajan Desai of Tech. and Engg. won III position in High Jump. (c) Kum. Jacqueline Fernandes won Ist Position in Long Jump.
(f) Local Tournaments :		
(a) Basketball (Men)		: Winners Baroda District Basketball Tournaments
(b) Basketball (W)		: Won the Raymen Glues and Chemical Shield. Runners up in Baroda District Basketball Tournaments
(c) Hockey (W)		: Winners—Open Baroda Knock out Tournaments.
(d) Football		: Reached upto Semifinals in Senior League Football Tournaments. : Winners of the Randle Cup.
(e) Cricket (M)		: Winners—J.Ida Open Knock out Tournament.
(f) Hockey (M)		: Runners up—Baroda Senior League Hockey Tournaments.
(g) Inter Faculty Tournaments :		
(i) Football		: Winners—Faculty of Commerce Runners up—Science
(ii) Tennis		: Winners—Medicine Runners up—Tech. and Engg.
(iii) Cricket (M)		: Winners—Commerce Runners up—Law
(iv) Volley Ball		: Winners—Tech. and Engg. Runners up—Arts
(v) Athletics (M)		: Individual Championship won by Shri Suresh Menon—Faculty of Commerce.

1	2	3
(vi)	Swimming	: Individual Championship shared by Shri Shri Patel R. S. Polytechnic Kanabar R. C. Commerce
(vii)	Hockey (M)	: Winners—Tech. and Engg. Runners up—Arts
(viii)	Hockey Women	: Winners—Commerce Runners up—Home Science
(ix)	University Open Tennis Tournaments (M)	: Winners—Shri Gokul Shodhan—Tech. & Engg. Runners up—Sddarth Acharya—Medicine

### (5) Professional growth of the Staff

#### (a) Attended Seminars :

- (i) Shri R. N. Thatte attended the U.G.C. Seminar on Promotion of Physical Fitness of University Youth Held in November, 1981 organised by Lakshmbai National College of Physical Education Gwalior and read the paper on the topic below.
- “Physical Fitness in India in the context of social set up in the old Age”.
- (ii) Shri R. N. Thatte, Smt. S. R. Katkar, Shri S. B. Dalia, Shri K. B. Desai attended a Seminar on “Physical Education and Sports organised by Gujarat University at Ahmedabad on 3rd and 4th April, 1982.

#### (b) Published Articles :

- (i) Shri R. N. Thatte Published an Article :  
“Hockey and how to play” in the souvenir at the time of XXXV Senior National Women’s Hockey Championship published by Gujarat State Women’s Hockey Association, Ahmedabad in the Month of October, 1981—
- (ii) Smt. S. R. Katkar Published in article on ‘Kho-Kho’ in the souvenir at the time of ‘All India Inter University Kho-Kho Tournament 1981-82 organised by the Janta Mahavidyalaya Ajitmal, Etawan under the auspices of Kanpur University.

### 3. National Cadet Crops :

#### (1) Units and Enrolment :

The enrolment of officers and cadets on different N.C.C. Units affiliated to the M. S. University of Baroda during the year was as under :

Name of Unit	NCC Officers	NCC Cadets
(a) 3 Gujarat Bn NCC, Baroda	2	418
(b) 1 Gujarat Composite Tech Regt. NCC, Baroda	2	160
(c) Company, 6 Guj. Girls Bn NCC, Baroda	1	200
(d) 2 Gujarat Naval Unit NCC, Baroda	2	180
(e) 1 Gujarat Air Sqn NCC, Baroda	—	180

#### (2) Training :

Training of all the Units started in July 1981 and terminated in Feb. 1982. A large number of Officers and Cadets took part in the Directorate General Organised Camps/Courses, Annual Training Camps and Attachement with Regular Units. Some of the High Lights of training are as under :—

#### (a) Annual Training Camps—Attended by NCC Cadets of M.S. University

Sr. No.	Unit	Officers Strength	Cadets
(i)	3 Gujarat Bn NCC	1	30
(ii)	1 Gujarat Compo (T) Regt. NCC	1	11
(iii)	Company, 6 Guj. Girls Bn NCC	1	25
(iv)	2 Gujarat Naval Unit NCC	1	23
(v)	1 Gujarat Air Sqn NCC	—	32

#### (b) Directorate General Organised Courses/Campus :

Sr. No.	Name of Camp/Course	Number attended Officers/Cadets
(i)	Basic Leadership Courses, SD Boy held at Bhowali from 27 May to June 1981.	— 3
(ii)	Basic leadership Course, SW Girls held at Bhowali from 12 June to 25 June 1981.	— 2
(iii)	Basic Leadership Course, SW Girls held at Bangalore from 2 June to 12 June 1981.	— 2
(iv)	Basic Leadership Course, SD Boys (with Agricultural Bias) held at Gurgaon from 18 Dec. to 29 Dec. 1981.	— 7
(v)	Advance Leadership Course, SD Boys held at Konark (Orissa) from 20 May to 9 June 1981.	— 3

- (vi) Advance Leadership Course, SD Boys held at — 2  
Kurseong ( West Bengal ) from 9 May to 29 May 1981
- (vii) Advance Leadership Course, SW Girls held at — 2  
Panchgani ( Maharashtra ) from 20 May to 9 June 1981
- (c) 4 Cadets attended the Republic Day Parade and Prime Minister's Rally on 26 Jan. 82.
- (d) Attachment with Regular Unit.
- Cadets were attached with the Regular Army Unit as under :—

Unit	Name of cadets attached	Type of Regular Unit
(1) 3 Guj. Bn NCC	22	Army Unit
(2) 1 Guj. Campe (T) Regt. NCC	4	Army Unit

(3) Competitions :

- (a) No. 1 Gujarat Air Sqn. NCC, Baroda has been adjudged as the Best Flying Squadron in the Country at the Republic Day Camp held at New Delhi.
- (b) Cdt/SUO C A Chaudhary of 1 Gujarat Air Sqn NCC was selected Air contingent Commander at Republic Day Parade held at New Delhi.
- (c) Cdt/LFC Ashok J Ramanma stood second in the Best Cadet competition held at Basic Leadership Course at Bhowali from 27 May to 9 June 1981.
- (d) Cdt/Cpl Rajendra N Gaekwad stood 1st in the Best Trekkers event during Trekking Expedition from Kathgodam to Kedarnath from 20 June to 29 June 1981.
- (e) Cadet Asit R Patel stood 1st in the Best Skiler event in the Fourth Water SKI Course held at Gulmarg from 15 July to 28 July 1981.
- (f) Shipmodelling :

The details of Shipmodelling are as under :—

Place	Date	Name of Cadets Participated	Prizes Won
Calcutta	22 Oct. 1981	4 Cadets	1 First Prize 2 Second Prizes 3 Third Prizes

(4) Social Service :

During the Current year, Independent Projects like tree plantation, repair of roads, cleaning of villages/slum areas and lectures on hygiene and sanitation to the villagers were undertaken by the cadets. The effort put in was appreciated by various authorities. Girl cadets undertook projects at Crippled Children Home Baroda. A total of 11238 man hours of social service was carried out by the cadets of this Group.

284 cadets donated a total of 85200 c.c. blood during the year.

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

A Guard of Honour, consisting of one officer and fifty cadets was presented to Shri Nani A Palkhiwala on 19 Dec. 1981 at the Annual Convocation of MS University Baroda.

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

Training in Gliding was imparted to 60 cadets (44 Boys and 16 Gils) of 1 Gujarat Air Sqn. NCC, Baroda. A total of 1923 launches were carried out upto 31 March 1982. Cadets (12 Boys and 7 Girls) were given power flying at Gujarat Flying Club. Baroda and have completed 409-00 hrs. of power flying. Power flying was discontinued for 2 months due to shortage of fuel and also Gliding training was held up for about 3 months for want of Jeep and fuel. 10 Cadets have done SOLO in Gliding and 7 cadets have done SOLO in flying during the year.

(7) Adventure Training—Sailing Expedition :

Sailing expedition for Naval cadets was conducted in River Narmada from 25 Jan. 1982 to 26 Jan. 1982 from Chandod to Bharuch (Distance covered 100 Kms.). 10 Boy cadets and 5 Girls cadets took part in the expedition.

(8) Adventure Training—Cycle Expedition :

Various cycling expeditions by Boy and Girl Cadets were conducted by the Units of this Group. These expeditions were carried out within this Group Neighbouring Group.

(9) Trekking Expedition :

- (a) Two Officers, including One Lady Officer, 2 Senior Division and 3 Senior Wing Girl Cadets participated in Trekking expedition from Kathgodam to Kedarnath from 20 June to 29 June 1981.
- (b) 4 Senior Division Boy cadets participated in Trekking Expedition from Mauali to Rohtang from 15 June to 24 June 1981.

(10) *Para Training :*

GUJ/SW/79!97003 Cpl Kalpana Thakkar of Baroda Detachment of 6 Guj. Girls Bn. NCC, Surat attended para training at Agra from 21 Sept. to 24 Oct. 1981 and did five jumps.

(11) *Certificate Examinations*

The results of certificate examinations conducted during Feb/Mor 82 is shown as under :

Name of Unit	Certificate Examinations							
	'C' Certificate		'B' Certificate		'G' Pt. I Cer Exam.		'G' Pt. II Cer. Exam.	
	App	Pass	App	Pass	App	Pass	App	Pass
(a) 3 Guj. Bn. NCC	15	12	42	38	—	—	—	—
(b) 1 Guj. Comp. Tech. Regt.	13	08	49	40	—	—	—	—
(c) 1 Guj. Air Sqn. NCC	12	12	34	31	—	—	—	—
(d) 2 Guj. Naval Unit NCC	8	6	16	13	—	—	—	—
(e) Boy at Baroda of 6 Guj. Girls Bn NCC	—	—	—	—	40	37	36	33

(12) *NCC Day Celebration :*

NCC Day was celebrated on 22 Nov. 81 at M. S. University Pavilion Ground, Baroda.

(13) *Commission in Naval Wing :*

Ex-cadet Captain Manoj Gupta of 2 Gujarat Naval Unit NCC Baroda has been selected for Commission in Navy Electrical Branch as a Sub-Lieutenant with effect from 18 Aug. 1981.

4. *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 facilities for indoor games such as carrom, draught, chess, table tennis, etc. and for

readingnews-papers, periodicals and books. Committee consisting of the members of the teaching staff look after the unkeep and arrangements of the rooms. The rooms are also used for meeting of the Students Association, Socials, Indoor games and tournaments.

5. *Hobby Workshop*(1) *Brief History :*

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) Glasy Modelling and (5) Photography. The Hobby Workshop has been functioning since 18th January, 1961. It has been experienced that this type of Institution was really needed for canalising extra time of the students for some operative work.

(2) *Building*

The Hobby Workshop building is situated South-East Corner of the University Cricket Ground near the General Education Building for various Hobbies.

(3) *Course of Students :*

Instructions and training were imparted to the students in different Hobbies viz., (1) Carpentry, (2) Assembling Electronics and Electrical Appliances, (3) Music, (4) Clay Modelling, (5) Photography.

(4) *Number of Students :*

Students from several Faculties and Institutions are availing facilities provided at the Hobby Workshop with interest and zeal. The total numbers of students (28) enrolled during the year 1980-81. They are distributed over the various Hobbies as under.

(5) Name of the Hobby	Students enrolled in the year
1. Carpentry	5
2. Assembling Electronics and Electrical Appliances	5
3. Music	11
4. Clay Modelling	7
5. Photography	—
Total	28

## (6) Staff:

The Officer-in-charge, Six Part-time Instructors, for each of the Hobbies of Carpentry, Clay Modelling, Electronics and Electrical Appliances, Photography and two Instructors for the Music Hobbies one for Instrumental and one for vocal Music, One Part-time Clerk and also one Part-time Peon are appointed for the administrative work of the Hobby Workshop.

## 6. University Employment Information and Guidance Bureau

During the year under report the Bureau continued to offer the following services for the benefit of the students :

- ( i ) Registration of post-graduate students.
- ( ii ) Submission of names of qualified applicants in different areas.
- ( iii ) Placement guidance.
- ( iv ) Supply of information ( by post as well as on personal visit ).
- ( v ) Giving group guidance talks in schools of Baroda City.
- ( vi ) Reviewing live registers.

The Bureau made efforts to 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 months of January and February, 1982. About 1000 students took advantage of it. A career exhibition including specially designed and prepared career charts was also arranged.

Another useful work recently completed by the Bureau is the translation into Gujarati of Career Information Series No. 35, viz. "Biology for a Career" and has been sent to Directorate of Employment and training.

The Chief, Dr. J. J. Gajjar, attended two seminars, one on "Avenue for Self-Employment" and the other on "Apprenticeship Training".

Future development plans include ( i ) Collecting more information on Institutions of Higher Education in Gujarat and other states ( ii ) Visiting other Bureaus to get ne ideas ( iii ) Helping other universities in Developing similar activities.

## 7. National Service Scheme

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

The regular activities of NSS for the year 1981-82 got shaped from the recommendations given by the participants of the Advanced Leadership Training Camp and the strategy of involving first year students in the Faculty level project of N.S.S. The senior student volunteers were involved in the Central Project,

with an emphasis on creating ADVANCED VOLUNTEERSHIP in NSS. The regular activities were undertaken in three major areas namely ( a ) Village Development, ( b ) Slum Improvement, ( c ) Institutional Service Project.

The activity report that follows, describes the process, alongwith the activities and achievements during the year.

## ( 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 which 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, development 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 subject 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 1981-82 consisted of an Hon. Director, a Programme Coordinator, two Field Organisers, Twelve N.S.S. Programme Leadership, Office Assistants and a Peon.

## ( iii ) Enrolment :

The organisation attracted 1500 students volunteers of different Faculties/Institutions of the University as per details given below :

Sr. No.	Name of the Faculty/Institution	No. of Students enrolled		
		Boys	Girls	Total
1.	Commerce	411	229	640
2.	Arts	82	110	192
3.	Science	121	42	163
4.	Technology ad Engineering	46	2	48
5.	Home Science		22	22
6.	Polytechnic	119	—	119
7.	Medical	80	29	109
8.	Fine Arts	12	9	21
8.	Fine Arts	12	9	21
9.	Padra College	133	36	169
9.	Padra College	10	7	17
10.	Social Work	1014	486	1500

(iv) *Special Feature :*

The organisation of various projects is carried out on the basis of students interest and capacities guided and supervised centrally at University Level. However, efforts have been made to evolve Faculty level project committees to involve academic community in the project at an advisory level and to plan out activities to suit the learning needs of the students and the real needs of the community.

(v) *Projectwise Activities for the year 1981-82 :*(1) *Village Development Project :*

The village development project was a three phased programme. The first phase emphasised the assessment of needs/problems of the community; the second on organising appropriate programmes/services through mobilizing of resources, and the third on evaluation and follow-up of the work done. The method of community organisation of social work was used.

In most of these villages, student volunteers were involved in carrying out need assessment survey after being trained. This has helped the students to establish a rapport with the village people and to identify some problem affecting the community people. Healthy Baby Competitions; Medical Check-up programme; Seak-pit demonstrations and Manual labour work programmes were organised with the help of active local participation. Strategies of initiating/activising Yuvak and Mahila Mandals were adopted to seek people's participation. Republic Day celebrations and Recreational programmes were undertaken in these villages.

At village 'Kotali' and ten days camp was also organised.

(2) *Slum Improvement Project :*

This project had an objective to involve University Youth in launching social service programmes trying to solve some of the problems, or to satisfy the expressed needs with a view to bring about awareness among slum dwellers and motivate them for a collective action with regards to their needs and problems. These programmes were designed and implemented such that they had rich training potentials and greater service utility.

This project was launched in four slum pockets to the North-West side of the Baroda city. Urban Community Development programme of Municipal Corporation of Baroda was used as a recourse agency for better co-ordination and follow-up.

The student volunteers of this Project were involved in the projects of Health Survey; Follow-up treatment and other health care activities in collaboration with U.G.C. Project. Educational Guidance Centres benefiting the primary school-going children of the slums were initiated on regular basis. Play centres

and recreational programmes were emphasized as a strategy to encounter the trend of anti-social or non-desirable activities in the slums.

In Jalaramnagar slums people were helped to identify the need to have a Balwadi and they were motivated to go in for action. This Balwadi is expected to start by middle of August. Two Mahila Mandals were established and different demonstrations were given to ensure the development of the ladies. This programme was co-ordinated with the field work programme of the Faculty of Social Work.

(3) *Institutional Service Project :*

Baroda is a city of many social welfare agencies serving the problem solving and developmental needs of different groups of people. Their programmes have a greater scope of involving university youth as volunteers to supplement their efforts.

(4) *Central Projects :*

The students of advanced classes were involved in interest based projects giving more challenging opportunities. Such volunteers got organised into inter-disciplinary groups and participated in the following projects :

- (a) Construction and Afforestation Projects.
- (b) Creative Activity Projects.
- (c) Cultural Activity Projects.
- (d) Information and Documentation Projects.
- (e) Action Oriented Survey Projects.

The activities of these projects were either supporting supplementing the NSS projects or following them up.

(vi) *Special Projects :*(a) *Training and Production Centre :*

The N.S.S. volunteers working in Fatehgunj Slum observed that supplementary income programme should be offered to the ladies of the slum for the economic betterment of the family leading to overall development. On the basis of this observation, a training and production centre was initiated in joint collaboration with Lions Club of Karelibaug; Samaj Kalyan Kendra, Faculty of Social Work and National Service Scheme, M. S. University of Baroda. The Centre imparts training in sewing to the ladies of slums with a view to equip them for self-employment.

(b) *Participation in Flood Relief operation :*

The Selected batch of 25 NSS students participated in the flood relief operation, when Vishwamitri over-flooded in August, 1981. The volunteers participated in the activities of the shifting the flood affected peoples and their house-

holds to a place of their refuge. These affected people and their households to a place of their refuge. These volunteers also participated in the activities of food serving to the refugees; for live days. The participation of the students helped the local authorities to handle the situation more smoothly.

(c) Participation in the programmes of International Year of the Disabled :

(1) 15th August Celebration at Sheth Khushaldas Workshop for the Blind:

Independence day was celebrated at Sheth Khushaldas Workshop for the Blind with the programme of Flag-hoisting. A function was organised for award of tricucles and harmonium to the visually as well as orthopedically handicapped persons. The student volunteers of N.S.S. participated, actively, in the organisation of this programme and gained meaningful work-experiences.

(2) Sports day Celebration by Jaycees :

Jaycees Baroda organised sports competitions for the physically handicapped People of Boroda city in collaboration with the city level committee for the celebration of the International Year of the Disabled. It was two days programme, where in large number of competitors participated. A group of senior student volunteers of N.S.S. participated, actively, as volunteers in the organisation of the said competition.

(3) Programme of distributing toys to the inmates of Home for Mentally Deficient Children :

On 12th February, 1982 a small puppet show was arranged for the inmates of Home for Mentally Deficient Children Baroda. The resources of a voluntary agency, Youth Council, Baroda were mobilised to distribute toys to the mentally deficient children. This programme was, also undertaken in view of the International Year of the Disabled.

(vii) *Special Camping Programme 1981 s*

“ Youth For Rural Reconstruction ”.

Special Camping Programme is an important feature of N.S.S. Activities. These programmes are organised in vacations with specific objectives, in backward rural areas or tribal blocks or in the social welfare agencies working for rural/tribal upliftment. Every camp, is a ten day's programme and it provides to the university youths a learning experience for ten days, persistantly; and hence it is being viewed as a vital opportunity, by N.S.S. Organisation in M. S. University of Baroda.

National Service Scheme M. S. University of Baroda, organised 16 camps ten days each in under-developed villages and tribal areas, involving 570 campers, which were students and staff members of different Faculties/Colleges of the

M. S. University of Baroda, The projects of Gram Safai and Arogya, Life-Irrigation, Soil conservation and Afforestation, and Construction of houses in agencies were taken up in these camps, under manual labour work programmes. Along with this, educational and recreational programmes were also undertaken (1) to enrich the learning experiences of the university students and (2) to enthuse the people for participation in developmental activities. The whole programme was planned, implemented, supervised and evaluated by the team of trained social workers in N.S.S. Organisation, under the expert guidance and direction of Hon. Director, N.S.S. and Dean, Faculty of Social Work, The M. S. University of Baroda.

The details of these camps and achievements are as under :

(a) 3projects of Tree Plantations, Afforestation and Soil conservation were undertaken.

Gradones	Type of Terracing length	Pits of IXIXI $\frac{1}{2}$ ' measure for tree plantation	Soil Conservation and land reclamation work
	400 meters.	2200	31.38 brass.

(b) The students were also involved in the digging of foundations at Shram Mandir Trust Agency.

1.6 Brass of soil work was achieved.

(c) Nine Gram Arogya and Safai Shibirs were organised.

Bavla-type Latrines	Soakpits	Smokeless Ovens	Paniyaras	Bath-rooms	Ventilators
252	281	527	188	322	876

(d) Two Life-Irrigation camps were organised.

3' x 1 $\frac{1}{2}$  x 800 Q.ft. of soil work was completed.

(e) Over and above this, Immunisation camps, Slongan writings and Health Education Programmes, Competitions like Healthy Baby, Home Decoration, Recipe etc. and Educational-cum-recreational programmes were organised in all the camps.

(f) Table showing details of camps organised during the year 1981.

Sr.No.	Place of the Camp	Duration	Total number of participants
1	2	3	4
1.	Shram Mandir Sindhrot	4-5-1981 to 14-5-1981	23
2.	Farti-Kui	9-5-1981 to 19-5-1981	52
3.	Vemali	15-5-1981 to 25-5-1981	19
4.	Darapura	27-5-1981 to 7-6-1981	50

1	2	3	4
5.	Madheli	3-6-1981 to 13-6-1981	26
6.	Shram Mandir Sindhrot	14-10-1981 to 24-10-1981	30
7.	Dhanpuri—I	15-10-1981 to 25-10-1981	34
8.	Dhanpuri—II	2-11-1981 to 12-11-1981	46
9.	Muval	2-11-1981 to 12-11-1981	41
10.	Mota-Karala	2-11-1981 to 12-11-1981	56
11.	Ranapur	3-11-1981 to 13-11-1981	61
12.	Zoz	5-11-1981 to 15-11-1981	41
13.	Moti-Chiki	3-11-1981 to 13-11-1981	30
14.	Fajalpur	4-11-1981 to 14-11-1981	28
15.	Gutal	2-12-1981 to 11-12-1981	16
16.	Nathpuri	20-12-1981 to 29-12-1981	17
Total			570

### THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

Statement showing the number of University Students in the Academic Year 1981-82

Appendix 1

Faculties/Institutions	Post-graduate Courses		Degree Courses		Diploma Courses		Total		Grand Total		
	Men	Women	Men	Women	Men	Women	Men	Women	1980-81	1979-80	
1. Faculty of Arts	285	254	932	1,090	53	10	1,270	1,354	2,624	2,392	2,600
2. Faculty of Science	371	197	1,184	579	15	—	1,570	776	2,346	2,150	1,995
3. Faculty of Education and Psychology	79	44	137	229	—	—	216	273	489	497	478
4. Faculty of Commerce	372	102	2,751	1,880	61	30	3,184	2,012	5,196	3,920	3,849
5. Faculty of Medicine	192	34	660	130	106	23	958	187	1,145	983	990
6. Faculty of Technology and Engineering	285	22	2,828	241	166	—	3,261	263	3,524	2,749	3,284
7. Faculty of Fine Arts	43	31	87	75	137	29	267	135	402	351	354
8. Faculty of Home Science	—	152	—	533	—	59	—	744	744	794	786
9. Faculty of Social Work	42	38	—	—	17	3	59	41	100	108	117
10. Faculty of Law	24	4	1,714	218	442	32	2,180	254	2,434	1,167	1,145
11. M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	1,583	363	—	—	1,583	363	1,946	1,393	1,066
12. College of Indian Music, Dance and Dramatics	16	15	34	60	—	—	50	75	125	108	96
13. Baroda Sanskrit Mahavidyalaya	5	1	23	8	108	8	136	17	153	67	46
14. Polytechnic	—	—	—	—	3,078	35	3,078	35	3,113	2,559	2,156
Total	1,714	894	11,933	5,406	4,183	229	17,812	6,529	24,341	19,238	18,962

## Statement showing the Growth of Student Enrolment

The University started with 2,962 students on its roll. In 1981-82 it has 24,341 University students and 2,095 non-University students. The following table gives student enrolment figures for the last five years :

Year	Total enrolment	Percentage Increase/decrease
1977-78	19,486	— 5.7
1978-79	19,247	— 1.24
1979-80	18,972	— 1.43
1980-81	19,238	+ 1.40
1981-82	24,341	+ 26.5

## Statement showing the Sex Percentage in Different Faculties

The statement given below shows the percentage of men and women students in the various Faculties and Institutions of the University for the year 1960-61, 1970-71, 1980-81 and 1981-82 :

Faculties	1960-61		1970-71		1980-81		1981-82	
	Men	Women	Men	Women	Men	Women	Men	Women
1	2	3	4	5	6	7	8	9
Arts	65.7	34.3	37.5	62.5	50.0	50.0	48.4	51.6
Science	87.5	12.5	72.2	27.8	66.5	33.5	66.9	33.1
Edu. and Psy.	63.0	37.0	30.7	60.3	46.9	53.1	44.2	55.8
Commerce	82.6	17.4	82.6	17.4	62.7	37.3	61.3	38.7
Medicine	82.6	17.4	84.0	16.0	85.4	14.6	83.7	16.3
Tech. and Engg.	99.0	1.0	97.7	2.3	96.8	3.2	92.5	7.5
Fine Arts	83.6	16.4	73.0	27.0	73.2	26.8	66.4	33.6
Home Science	—	100.0	0.1	99.9	0.1	99.9	0	100.0
Social Work	75.0	25.0	56.0	44.0	57.4	42.6	59.0	41.0
Law	—	—	89.5	10.5	89.8	10.2	89.6	10.4
College of Indian Music, Dance and Dramatics	63.3	36.7	44.1	55.9	45.4	54.6	40.0	60.0
Baroda Sanskrit Mahavidyalaya	85.7	14.3	80.0	20.0	62.7	37.3	88.9	11.1
Polytechnic	99.6	0.4	99.4	0.6	98.9	1.1	98.9	1.1
Shri M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	90.8	9.2	82.3	17.7	81.4	18.6

## Appendix 4

## Statement showing the Percentage of Student Enrolment in the Different Faculties and Institutions in the last Five Years

Faculty	1977-78	1978-79	1979-80	1980-81	1981-82
Arts	14.9	16.1	13.7	12.4	10.8
Science	9.7	10.9	10.5	11.2	9.6
Education and Psychology	2.2	2.3	2.6	2.6	2.0
Commerce	15.8	18.3	20.3	20.4	21.3
Medicine	4.5	5.0	5.2	5.1	4.7
Technology and Engineering	15.9	16.8	17.3	14.3	14.5
Fine Arts	1.9	1.8	1.9	1.8	1.7
Home Science	4.8	4.1	4.2	4.1	5.1
Social Work	0.6	0.5	0.6	0.6	0.4
Law	7.2	7.0	6.0	6.1	10.0
M. K. Amin Arts and Science College and College of Commerce, Padra	4.1	5.0	6.6	7.2	8.0
College of Indian Music, Dance and Dramatics	0.5	0.6	0.5	0.6	0.5
Sanskrit Mahavidyalaya	0.2	0.3	0.3	0.3	0.6
Polytechnic	10.5	11.3	11.3	13.3	12.8
Total	100.0	100.0	100.0	100.0	100.0

## Appendix 5

## Statement showing the Non-University Students in the year 1981-82

Faculty/Institution	Men	Women	Total		
			1981-82	1980-81	1979-80
<b>A. Diploma Courses</b>					
( i ) College of Indian Music, Dance and Dramatics	587	424	1011	864	826
<b>B. Certificate Courses</b>					
( i ) Faculty of Arts	162	28	190	405	465
( ii ) Faculty of Fine Arts	—	—	—	8	—
( iii ) Baroda Sanskrit Mahavidyalaya	55	—	55	21	40
<b>C. S.S.C. Courses</b>					
( i ) University Experimental School	471	283	754	739	767
<b>D. Nursery Courses</b>					
( i ) Chetan Balwadi	14	11	25	128	166
( ii ) Kinder Garton	29	31	60	85	104
Total	1318	777	2095	2250	2368

**List of Degree/Diploma conferred at the Annual and Supplementary  
Convocations during the year 1981-82**

Sr. No.	Degree/Diploma	Annual Convocation December, 1981	Supplementary Convocation April, 1982	Total
1	2	3	4	5
1.	Ph.D. ( Arts )	5	6	11
2.	Ph.D. ( Science )	22	10	32
3.	Ph.D. ( Education )	14	7	21
4.	Ph.D. ( Medicine )	2	—	2
5.	Ph.D. ( Technology )	6	2	8
6.	Ph.D. ( Fine Arts )	1	—	1
7.	Ph.D. ( Home Science )	—	1	1
8.	M.D.	11	16	27
9.	M.S.	10	16	26
10.	M.A.	168	17	185
11.	B.A.	610	34	644
12.	Shastri	2	—	2
13.	Bachelor of Library Science	32	1	33
14.	M.Sc.	168	8	176
15.	B.Sc.	526	26	552
16.	M.Ed.	31	—	31
17.	B.Ed.	229	2	231
18.	P.G. Dip. in Edu. Admini.	3	1	4
19.	M.Com.	100	16	116
20.	B.Com.	1053	155	1208
21.	P.G. Dip. in Banking	41	5	46
22.	P.G. Dip. in Co-operation	3	1	4
23.	M.Sc. ( Medical )	—	3	3
24.	M.B.B.S.	28	108	136
25.	B.Physiotherapy	17	—	17
26.	D.O.	7	4	11
27.	D.A.	4	2	6
28.	D.M.R.D.	5	—	5
29.	D.C.H.	2	1	3
30.	D.V. and D.	2	1	3

1	2	3	4	5
31.	T.D.D.	4	2	6
32.	D.C.P.	1	1	2
33.	D.G.O.	5	7	12
34.	M.E.	22	9	31
35.	M.Text. ( Engg. )	7	—	7
36.	M.Pharm.	3	—	3
37.	M.Sc. ( Applied Physics )	5	1	6
38.	M.Sc. ( Applied Chemistry )	8	—	8
39.	M.Sc. ( Applied Mathematics )	4	1	5
40.	Bachelor of Technology	9	—	9
41.	B.E.	421	44	465
42.	B.Text. ( Engg. )	44	—	44
43.	B.Text. ( Tech. )	29	—	29
44.	B.Arch.	40	—	40
45.	B.Pharm.	31	2	33
46.	Bachelor of Science ( Tech. ) Textile Chemistry	6	—	6
47.	P.G. Dip. in Low Cost Housing	3	—	3
48.	LL.M.	2	4	6
49.	LL.B. ( Special )	74	8	82
50.	LL.B. ( General )	107	31	138
51.	D.T.P.	70	9	79
52.	D.L.P.	43	8	51
53.	M.A. ( Fine )	26	—	26
54.	M.Mus.	9	—	9
55.	B.A. ( Fine )	19	—	19
56.	B.Mus.	24	—	24
57.	M.Sc. ( Home )	59	9	68
58.	B.Sc. ( Home )	116	24	140
59.	P.G. Dip. in Pre-School Education	47	1	48
60.	M.S.W.	35	5	40
61.	P.G. Dip. in I.R.P.M.	15	1	16

**Statement showing the number of Teaching Staff of various  
Faculties and Institutions as on 31st March, 1982**

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	28	79	—	1	120
2.	Science	18	36	138	—	—	192
3.	Edu. and Psy.	4	11	21	—	1	37
4.	Commerce	6	10	47	—	—	63
5.	Tech. and Engg.	32	54	155	—	16	257
6.	Fine Arts	3	6	24	—	5	38
7.	Home Science	5	5	38	—	—	48
8.	Social Work	1	3	9	—	1	14
9.	Law	1	—	4	—	11	16
10.	Oriental Institute	1	1	5	—	2	9
11.	College of Indian Music, Dance and Dramatics	4	4	35	—	5	48
12.	Baroda Sanskrit Mahavidyalaya	—	—	5	6	4	15
13.	Polytechnic	—	5	82	4	—	91
14.	M. K. Amin Arts and Science College and College of Commerce, Padra	—	—	32	—	—	32
Total		87	163	674	10	46	980

**The Statement showing the Staff-Student Ratio**

The total number of teachers including Teaching Assistants, Senior/Junior Instructors, Tutors, Honorary, Research and Part-time Lecturers in the Faculties and Institutions of the University during the year under report was 1,199 (including 219 teachers of the Medical College) as against the total student enrolment of 24,341. This gives an overall teacher-student ratio 1:20.3. The corresponding strength of University teachers and staff-student ratio over the last five years is indicated below :

Year	No. of University-teachers	Students Enrolment	Staff-Student Ratio
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
1981-82	1,199	24,341	1:20.3

The Statement showing the Staff Student Ratio in different Faculties and Institutions

Faculty/Institution	No. of University Teachers	Students Enrolment	Staff-Student Ratio
1. Arts	120	2,624	1:21.9
2. Science	192	2,346	1:12.2
3. Education and Psychology	37	489	1:13.2
4. Commerce	63	5,196	1:82.5
5. Medical College	219	1,145	1:05.2
6. Technology and Engineering	257	3,524	1:13.7
7. Fine Arts	38	402	1:10.6
8. Home Science	48	744	1:15.5
9. Social Work	14	100	1:07.1
10. Law	16	2,434	1:152.1
11. College of Indian Music, Dance and Dramatics	48	125	1:02.6
12. Baroda Sanskrit Mahavidyalaya	15	153	1:10.2
13. M. K. Amin Arts and Science College and College of Commerce, Padra	32	1,246	1:60.8
14. Polytechnic	91	3,113	1:34.2

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

Year	NO. OF CASES TREATED					
	Staff and their families	%	Students	%	Total cases	Daily average attendance
1977-78	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
1981-82	29,255	81.4	6,680	18.6	35,935	124.0

Noticing the difficulties of the employees staying outside the campus area is taking advantage of the Health Centre, the University has provided health facilities to them as two Centres ( Established in 1973-74 )—One near Kothi and 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	Bajawada and Pratapnagar Centre
1. Number of Families who attended the Clinic	50	88
2. Number of times, member from these families attended the Clinic	998	1604
3. Number of days these members were treated	1819	3390

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

**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 Bahardur Shastri Hall	Shri Narservanji Vakil Hall
1	2	3	4	5	6	7	8	9
Arts	—	8	5	8	18	6	8	10
Commerce	8	17	18	22	17	19	11	22
Science	14	22	38	27	25	37	19	18
Education and Psychology	—	—	1	—	5	—	2	5
Technology and Engineering	125	94	88	106	119	105	63	75
Polytechnic	5	10	10	8	17	7	11	16
Medicine	27	19	14	10	17	21	13	9
Social Work	—	—	3	—	—	1	—	—
Fine Arts	4	17	13	8	13	7	12	18
Music	—	—	—	1	1	—	—	3
Law	—	7	1	—	3	4	6	1
Padra College	4	3	1	1	3	6	2	—
I.A.S.	—	—	—	—	—	—	—	—
Home Science	—	—	—	—	—	—	—	—
<b>Total</b>	<b>187</b>	<b>197</b>	<b>192</b>	<b>191</b>	<b>238</b>	<b>213</b>	<b>147</b>	<b>177</b>

**UNIVERSITY OF BARODA**  
**during 1981-82**

Shri Rabindranath Tagore Hall	Shri M. Vishvasaraya 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	Grant Total
10	11	12	13	14	15	16	17	18	19	20	21
6	6	14	89	17	106	18	22	10	11	61	167
46	39	43	262	8	270	8	18	13	5	44	314
46	12	37	295	47	342	44	24	42	19	129	471
—	2	1	16	20	36	15	6	7	3	31	67
152	119	128	1174	22	1196	20	23	23	3	69	1265
53	104	88	329	—	329	1	2	—	—	3	332
29	4	8	171	6	177	22	43	18	9	92	269
—	—	1	5	11	16	2	1	2	3	8	24
4	8	10	114	11	125	37	10	8	8	63	188
1	—	2	8	—	8	4	2	—	1	7	15
4	5	8	39	—	39	5	5	7	—	17	56
3	1	3	27	—	27	—	—	—	3	3	30
—	—	—	—	3	3	—	—	—	—	—	3
—	—	—	—	—	—	79	69	46	36	230	230
<b>344</b>	<b>300</b>	<b>343</b>	<b>2529</b>	<b>145</b>	<b>2674</b>	<b>255</b>	<b>225</b>	<b>176</b>	<b>101</b>	<b>757</b>	<b>3431</b>

Statement showing the percentage of students residing in the University Hostels the corresponding figures for the five years

Year	Students residing in Hostels			Percentage of Resident Students to the total Enrolment		
	Men	Women	Total	Men	Women	Total
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
1981-82	2,674	757	3,431	11.0	3.1	14.1

List of Students Qualifying for Ph.D. Degree during the year 1981-82

Sr.No.	Name	Subject	Title of the Thesis
<b>Faculty of Arts</b>			
1.	Shri Kamal Kantilal Punjani	Hindi	Hindi ka Patra Sahitya.
2.	Shri Avinash Vasant Parulkar	Economics	Factors influencing the use of electricity for irrigational Purposes.
3.	Smt. Gita Bajpai	History	Baroda in Transition (1980-1984).
4.	Shri Ambalal Dalsukram Thakar	Sanskrit	Reconstruction of Sankha Likhita Smrti with a critical study.
5.	Shri D. M. Prakash Joneja	English	Colonial Consciousness in recent black American, Indian and African fiction with Special reference to the novels of Richard Wright, Ralph Eusion, James Baldwin, Raja Rao, R. K. Narayan, Mulk Rajan and Chinna Acheba, T. M. Aluko and James Ngrsi.
6.	Shri Bausdeo Girraj Prasad Sharma	Hindi	Hindi ke Sathottari-Upanyaso Mai ankit Jivanmulya (1960-1980).
7.	Shri Ram Mangharan Michandani	Archaeology	Archaeological survey of Ahmedabad District
8.	Shri Bhupendra Naginlal Shah	English	Theodore Roeth ke and the Whitman Tradition.
9.	Shri Jaydev Arnoday Jani	Sanskrit	Candupanditer's Commentary on the Naisadhiya Caritam Cuntos 1 to 11 only (critical test with the introduction).
10.	Shri Savjibhai Arjanbhai Golakiya	Philosophy	Philosophical contribution of J. Krishnamurti
11.	Smt. Christine Patrick Gomez	English	The Development of the Outsider figure in drama from Shakespeare to Pinal.
<b>Faculty of Science</b>			
12.	Shri Navinchandra Ramanlal Shah	Physics	Study of the Spectra of some diatomic molecules (NiCl and nic Br).

Sr.No.	Name	Subject	Title of the Thesis
13.	Shri Majoj Chandra-sinhji Desai	Chemistry	Studies in Tritarpenoids.
14.	Shri Chandrasinh Fattesinh Desai	Physics	Study of Indiumprismuthide Single Crystals.
15.	Shri Narendra Revandas Patel	Chemistry	Studies in the crmotropic Liquid crystalline.
16.	Shri T. N. V. Raghavan	Chemistry	Traa metals in Petroleum Exploration their detection quantitative.
17.	Shri Rajendra Prasad Singh	Chemistry	Organic Reactions in Solid Phase as distinct from those in solutions.
18.	Kum. Jaya Mary Violet	Botany	Nitrate assimilation in rice ( <i>oryza Sativa</i> linn) with Special reference to Nitrate reductase.
19.	Shri Manohar Moreshwar Moghe	Botany	Studies on the insect Gall of <i>Fincus Racomosa</i> linn.
20.	Shri Jagdeep Kaushikray	Micro-biology	Some aspects of Aflatoxin in duced changes in bacteria and its detoxification.
21.	Shri Dibya Ratna Kansakar	Geology	Geology and Structure of Panchkhal-Dolalghat region in Central Nepal and their bearing on the regional tectonic frame work.
22.	Shri Govind Kutty Raghavan Nambiar	Botany	In vivo and in vitro studies on the biogenesis of Ergot Alkaloids in <i>Evolualus alsinoides</i> mesogens and the study of their mesogenic Properties.
23.	Srhi Shuaibulhasan Saiyedhasan Kazi	Chemistry	Some studies in Ion Exchange Regins.
24.	Shri Manubhai Bahecharbhai Patel	Chemistry	Some Studies with Synthetic Ion Exchangers.
25.	Shri Alkeshkumar Manubhai Mehta	Micro-biology	Studies on inhibitous produced by lactic organizms on Contaminants in cards.
26.	Smt. Shashikanta Tuteja	Botany	Cytological and Micromorphological studies of selected Taxa of Solanaccac and Fabaceac.
27.	Shri Konagala Samba Siva Rao	Botany	Studies on the Flora of South Eastern Kutch.
28.	Shri Polavaraph Bilhan Kavi Kishor	Botany	Some aspects of Carbohydrade metabolism in differentating ( Tobacco ) and

Sr.No.	Name	Subject	Title of the Thesis
29.	Kum. Alica Kutty Mathew	Botany	non-differentiating ( Cotton ). tissue culture systems. Studies on growth and diosgenin content of tissues of <i>Trigonella foenum graccum</i> cultural in Vistro.
30.	Kum. Neelima Vinayak Athavale	Zoology	Studies on Histophysiology of Epidermal Glands in Reptile.
31.	Shri Dilip Ganindrao Patil	Chemistry	Fragmentation of homoallydic systems.
32.	Shri Debabrata Ray	Geology	Stratigraphy and Sedimentation of Bagh bedo of lower Narmada Valley, Gujarat.
33.	Shri S. Ganapathi	Geology	Geological and Geomorphological Evolution of the Coastline between Bhavnagar and Mahuva of Southeastern Saurashtra, Gujarat State.
34.	Kum. Rena Surendrakumar Gupta	Chemistry	Synthesis of Potential mesogens and the Study of their mesogenic Properties.
35.	Shri Govind Sundaran Nadathwr	Micro-biology	Factors affecting curotenogenris and morphological Changes in <i>Blakeslea-trispora</i> .
36.	Shri Tangutura Sanjeeva Reddy	Biochemistry	Nutritional deficiencies on rat brain Lipids.
37.	Shri D. Cross Bell	Botany	Studies on the production potential of a few plants growing in High Air Pollution in Baroda.
<b>Faculty of Education and Psychology</b>			
38.	Shri Soran Singh	Education	A critical Study of the Programmes of Pre-service and inservice education of teachers of higher education in India.
39.	Shri Jeans Jayachandran	Education	An experimental Study of the efficiency of Programmes film-strips as a method of teaching history in the Secondary Schools.
40.	Shri Biswal Bhabagrahi	Education	Developing stratagies for effective utilization of School Broadcast Programmes in Orissa State.

Sr.No.	Name	Subject	Title of the Thesis
41.	Smt. Ninaz Themas P. Ankleshwaria	Education	A comparative study of different strategies to teach nutrition to the Home Science College students of vargin of intelligence.
42.	Smt. Indira Kantibhai Shah	Education	Developing a teaching Strategy for course on educational evaluation, at the B.Ed. level and studying its effectiveness.
43.	Shri Kailash Chander Gulati	Education	A study of factors association with teachers predisposition to adopt educational innovations.
44.	Kum. T. K. Sunderalaxmi	Education	Instructional strategies their effects on class-room climate and Pupil growth.
45.	Shri A. K. M. Shafikul Islam	Education	An experimental study in teacher training programme with micro-teaching approach in Bangladesh.
46.	Shri M. Ragharam Singh	Education	Awareness and knowledges of recent Development in Education and their correlates amongst the B.Ed. and M.Ed. Students.
47.	Shri Yeshwant Singh Vagrecha	Psychology	Some aspects of Patterns and determinents of human aggression.
48.	Shri Satishkumar Yadav	Education	A study of scheduled Castes awareness about the Schemes for their educational Progress.
49.	Shri Md. Shah- jahan Main	Education	An experimental study of teaching science in standard VI and VII through modules.
50.	Shri Vijay K. Raina	Education	A factorial study of the personalities attitudes to teaching and creativity of in service and student. teachers belonging to their subject areas.
51.	Smt. G. Rajeeva- lochana Venkiah	Education	A study of Administrator behaviour in Secondary Schools of Tamilnadu.
52.	Shri V. Vinai- theerthan	Education	A study of innovation dissonance and its correlates in the Secondary School.
53.	Kum. Shobita Punja	Education	An approach to art Education A survey and tryant of a renewed Programme of art education.

Sr.No.	Name	Subject	Title of the Thesis
54.	Shri Bhupendrabhai Bhailalabhai Shah	Education	An experimental investigation of the effects of selected teaching.
55.	Shri Md. Iqbal Aziz Muttaqi	Education	Development of a curriculum in Ecology for Secondary Schools of Bangladesh.
56.	Shri Bhasin P. Sagarsingh	Education	An analytical study of invertebral interest.
57.	Shri Prince Samuel Chandrakumar	Education	A study of aspiration for Education in the pupils from the deprived community in the schools of Tamilnadu.
<b>Faculty of Medicine</b>			
58.	Shri Shashikant Ramanlal Patel	Pharmacology	Some aspects of the Pharmacology goat tissues.
59.	Shri Narendralal Chimanlal Shah	Physiology	Study on lung function in textile workers in Baroda.
60.	Shri Kishorkumar Purushottamdas	Biochemistry	The Biochemical changes occurring in Amniotic fluid during different Gestational periods.
<b>Faculty of Technology and Engineering</b>			
61.	Shri Akshaikumar Aggarwal	Electrical Engineering	Multiphase Chopper Networks, Analysis using graph theoretic and other techniques.
62.	Kum. Subhadra Kumari Ashabhai Patel	Applied Chemistry	Solvent Extraction of some Transition Metal ions.
63.	Kum. Ranjan Damodar Roshania	Applied Chemistry	Organic complexing Reagents and their Analytical applications.
64.	Kum. Jyoti Gangadhar Nane	Applied Physics	Luminescence centres in variously pretreated Naisar TI Phosphors.
65.	Shri Anilkumar Dhirajlal Sheth	Applied Chemistry	Ion Exchanges Regions.
66.	Shri Sureshkumar Bhaskarrao Patke	Applied Chemistry	Studies on Trace Heavy Metals in the Environment.
67.	Shri Jayrang Shiv- prasad Dave	Applied Chemistry	Synthesis of liquid Crystals and Study of mesomorphism.
<b>Faculty of Home Science</b>			
68.	Kum. Anshya Udaishinh Rana	Education and Extension	Professional Commitment of Home Science College teachers in India. Its relationship to personal and professional characteristics and to organizational climate.

## Results of the University Examinations of June, 1981

Sr. No.	Examination	No. Regd.	No. Absent	Number appeared		Number Passed																		Percentage of passes
				Men	Women	Men									Women									
						Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total								
1.	F.Y.B.A.	88	19	50	69	8	3	8	9	10	11	12	13	14	15	16	17	18	82.6%					
*2.	S.Y.B.A.	375	24	146	205	351	—	—	—	—	11	—	26	16	4	46	57	399	87.6%					
3.	T.Y.B.A.	814	89	390	335	725	—	—	16	74	205	295	1	36	121	126	284	579	79.8%					
*4.	M.A.—Part I	265	54	106	105	211	—	—	—	87	87	—	—	—	96	96	180	180	75.3%					
5.	M.A.—Part II	216	15	102	99	201	1	9	24	33	67	1	31	36	28	96	163	163	81.00%					
6.	Bachelor of Library Science	43	2	8	33	41	—	2	3	3	8	—	—	17	8	23	31	31	75.6%					
7.	Shastri	3	—	2	—	—	—	—	—	2	2	—	—	—	—	—	3	3	75.00%					
8.	Visharad	7	3	4	—	4	—	1	1	1	3	—	—	—	—	—	2	2	100%					
9.	Post-Diploma in German Language	2	—	2	—	2	—	1	—	1	2	—	—	—	—	—	2	2	100%					
10.	Diploma in German Language	30	14	12	4	16	—	3	3	2	8	—	—	1	3	4	12	12	75.00%					
11.	Post-Diploma in Russian Language	2	1	—	1	—	—	—	—	—	—	—	1	—	—	—	1	1	100%					
12.	Diploma in Russian Language	5	1	4	—	4	1	1	2	—	4	—	—	—	—	—	4	4	100%					
13.	Diploma in French Language	15	5	4	6	10	—	2	1	1	4	—	4	1	1	6	10	10	100%					
14.	F.Y.B.Sc.	270	10	178	82	260	—	127	29	15	171	—	56	15	3	74	245	245	94.23%					

\* No Class is awarded.

15.	S.Y.B.Sc.	466	11	297	158	455	—	—	—	—	247	247	—	—	—	152	152	399	87.69%
16.	T.Y.B.Sc.	604	25	410	169	579	26	89	143	100	358	19	50	69	19	176	534	534	92.21%
*17.	M.Sc. (Previous)	232	13	130	89	219	—	4	39	48	15	106	4	21	22	3	50	156	85.12%
18.	M.Sc. (Final)	174	2	118	54	172	—	2	5	4	—	11	—	—	—	—	—	11	84.61%
19.	M.Sc. (Applied Geology)	13	—	13	—	13	—	22	73	3	98	12	40	66	—	118	216	216	93.00%
†20.	B.Ed.	236	4	104	128	232	—	1	8	3	12	1	4	10	—	15	27	27	96.42%
*21.	M.Ed.	34	2	17	15	32	—	1	1	2	—	4	—	—	—	—	4	4	100%
*22.	P.G. Diploma in Edu. Adm.	4	—	4	—	4	—	37	41	18	96	—	32	19	12	63	159	159	81.5%
23.	F.Y.B.Com.	209	14	113	82	195	—	—	—	—	—	—	—	—	—	186	186	581	84.82%
*24.	S.Y.B.Com.	706	20	465	221	686	—	—	—	395	395	—	55	190	110	355	1031	1031	76.1%
25.	T.Y.B.Com.	1681	133	1062	486	1548	3	87	367	219	676	—	8	—	—	—	8	8	72.72%
*26.	T.Y.B.Com. (Under O.Com. 25)	14	3	11	—	11	—	—	—	—	8	—	—	—	—	—	—	2	100%
*27.	T.Y.B.Com. (Under O.Com. 27)	2	—	2	—	2	—	1	1	—	2	—	—	—	—	22	22	110	90.00%
*28.	M.Com.—Part I	180	59	99	22	121	—	—	—	—	88	88	—	—	—	—	—	83	73.6%
29.	M.Com.—Part II	138	25	88	25	113	—	5	27	26	58	—	1	14	10	25	83	83	76.47%
30.	P.G. Diploma in Banking	62	11	21	30	51	—	4	11	1	16	—	3	3	—	—	3	3	100%
*31.	P.G. Diploma in Co-operation	11	4	5	2	7	—	—	—	—	3	—	—	—	—	2	2	2	100%
*32.	U.G. Diploma in Co-operation	10	7	—	2	2	—	—	—	—	—	—	—	—	—	—	—	5	45.45%
*33.	M.D. (Br. I—Medicine)	11	5	—	4	1	5	—	—	—	2	2	—	—	—	—	—	3	60.00%
*34.	M.D. (Br. II—Pathology)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*35.	M.D. (Br. VII—Anaesthesia)	1	—	—	1	—	—	—	—	—	3	3	—	—	—	—	—	1	100%
*36.	M.D. (Br. X—Biochemistry)	6	—	6	—	6	—	—	—	—	3	3	—	—	—	—	—	3	50.00%
*37.	M.S. (Br. I—Surgery)	9	1	8	—	8	—	—	—	—	5	5	—	—	—	—	—	5	55.55%
*38.	M.S. (Br. III—Orthopaedics)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*39.	M.S. (Br. IV—Oto-Rhino-Lary.)	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*40.	M.Sc. (Medical)—Part I	7	—	7	—	7	—	—	—	—	7	7	—	—	—	—	—	7	100%
*41.	Diploma in Ophthalmology	4	—	4	—	4	—	—	—	—	4	4	—	—	—	—	—	4	100%
*42.	Dip. in Anaesthesiology	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%
*43.	Dip. in Medical Radio-Diagnosis—Part I	2	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	2	100%

\* No Class is awarded.

† From 1968 Examination, Grades are awarded to the candidates but the results are declared in classes (i.e. I Class Dist., I Class, II Class and Pass Class).

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
*44. Dip. in Medical Radio Diagnosis— Part II																			
*45. Dip. in Venereology and Mermatology	5	1	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100%
*46. Dip. in Child Health	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	100%
*47. Dip. in Tuberculous Diseases	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	66.66%
*48. Dip. in Clinical Pathology	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	33.33%
*49. Dip. in Obstetrics and Gynaecology	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	71.11%
*50. First M.B.B.S.	138	1	113	24	137	99	99	99	99	99	99	99	99	99	99	99	99	99	78.32%
*51. Second M.B.B.S.	124	3	103	18	121	98	98	98	98	98	98	98	98	98	98	98	98	98	95.4%
*52. Final M.B.B.S.	50	45	5	50	33	33	33	33	33	33	33	33	33	33	33	33	33	33	76.00%
*53. F.Y.B. Physiotherapy	33	2	31	33	2	2	2	2	2	2	2	2	2	2	2	2	2	2	75.75%
*54. F.Y.B. Physiotherapy (Suppl.)	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	100%
*55. S.Y.B. Physiotherapy (Suppl.)	22	4	18	22	13	13	13	13	13	13	13	13	13	13	13	13	13	13	72.72%
*56. T.Y.B. Physiotherapy	17	1	16	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	83.26%
*57. I Sem. of F.Y.Dip. (CME)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	100%
*58. I Sem. of F.Y.Dip. (CME)	186	179	7	186	88	79	7	174	2	5	2	5	2	5	2	5	2	5	100%
*59. II Sem. of (CME)—HSC Passed																			97.31%
*60. Students V Sem. Course	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	100%
*61. I Sem. of S.Y.Dip. (CME)	8	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	42.8%
*62. II Sem. of S.Y.Dip. (CME)	447	439	8	447	163	201	50	414	7	1	7	1	7	1	7	1	7	1	94.9%
*63. D.C.E.	38	2	36	36	9	9	9	9	9	9	9	9	9	9	9	9	9	9	61.1%
*64. I Sem. of D.C.E.	12	3	9	9	48	47	6	101	8	8	8	8	8	8	8	8	8	8	88.89%
*65. II Sem. of D.C.E.	106	1	105	105	32	18	85	135	11	11	11	11	11	11	11	11	11	11	96.19%
*66. D.M.E.	172	19	153	153	12	12	12	12	12	12	12	12	12	12	12	12	12	12	88.2%
*67. I Sem. of D.M.E.	14	2	12	12	81	48	10	139	88	88	88	88	88	88	88	88	88	88	91.67%
*68. II Sem. of D.M.E.	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	97.89%
*69. D.E.E.	131	17	114	114	10	78	88	88	88	88	88	88	88	88	88	88	88	88	77.19%
*70. I Sem. of D.E.E.	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100%
*71. II Sem. of D.E.E.	56	54	2	56	20	25	9	54	2	2	2	2	2	2	2	2	2	2	100%
*72. D.T.C.	12	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	85.71%
*73. I Sem. of D.T.C.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100%

\* No Class is awarded.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
74. II Sem. of D.T.C.	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	92.30%
*75. I Sem. of D.T.C. (B.Sc. Passed)	13	2	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	63.63%
76. II Sem. of D.T.C. (B.Sc. Passed)	64	1	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	96.32%
77. D.T.T.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	100%
*78. I Sem. of D.T.T.	35	3	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	100%
79. II Sem. of D.T.T.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	100%
*80. I Sem. of S.Y.Dip. (CME)—EDC	7	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	100%
*81. II Sem. of S.Y.Dip. (CME)—EDC	19	1	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	100%
*82. I Sem. of Final Year D.C.E.—EDC	23	3	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	60.00%
*83. II Sem. of Final Year D.C.E.—EDC	62	5	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	77.2%
*84. I Sem. of Final Year D.M.E.—EDC	49	17	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	50.00%
*85. II Sem. of Final Year D.M.E.—EDC	61	17	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	55.00%
*86. I Sem. of Final Year D.E.E.—EDC	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	50.00%
*87. II Sem. of Final Year D.E.E.—EDC	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	50.00%
*88. I Sem. of Final Year Dip. Production Engineering	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50.00%
*89. II Sem. of Final Year Dip. Production Engineering	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	50.00%
*90. I Sem. of Final Year Dip. Industrial Electronics	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	75.00%
*91. II Sem. of Final Year Dip. Industrial Electronics	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	73.3%
*92. I Sem. of P.D. Dip. in Ref. and Air. Cond.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	100%
*93. II Sem. of P.D. Dip. in Ref. and Air. Cond.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	100%
*94. I Sem. of F.Y.Dip. (PCT)	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	94%
*95. II Sem. of S.Y.Dip. (PCT)	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	100%
*96. I Sem. of T.Y.Dip. (PCT)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100%
*97. II Sem. of T.Y.Dip. (PCT)	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	97.43%
*98. I Sem. of Final Year Dip. (PCT)	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	100%
*99. II Sem. of F.Text. (Engg. and Tech.)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	100%
*100. II Sem. of F.Text. (Engg. and Tech.)	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	100%

\* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
*101. I Sem. of S.Text. (Tech.)		2		2		2				2	2						2	100%
102. II Sem. of S.Text. (Engg.)		20		20		20		6	9	5	20						20	100%
103. II Sem. of S.Text. (Tech.)		33		33		33		3	11	17	33						33	100%
104. II Sem. of T.Text. (Engg.)		26		26		26		1	13	12	26						26	100%
105. II Sem. of T.Text. (Tech.)		25		25		25		1	10	14	25						25	100%
106. II Sem. of B.Text. (Engg.)		44		44		44		5	18	16	44						44	100%
107. II Sem. of B.Text. (Tech.)		26	1	25		25		4	16	5	25						25	100%
*108. M.Text. (Engg.)—Part II		4		4		4				4	4						4	100%
109. M.Text. (Engg.)—Part IV		7		7		7			5	2	7						7	100%
*110. I Sem. of B.E. I																		
(CME, Chem., Met.) 5 Year		19	2	14	3	17					8	8			3	3	11	64.7%
111. II Sem. of B.E. I																		
(CME, Chem., Met.)—5 Year		178	1	165	12	177	21	51	69	14	154	1	5	2	4	12	167	94.8%
*112. I Sem. of B.E. II																		
(CME, Chem., Met.)—5 Year		2	1	1		1				1	1						1	100%
113. II Sem. of B.E. II																		
(CME, Chem., Met.)—5 Year		265	4	248	13	261	32	100	104	8	244	2	5	5	—	12	256	98.00%
*114. I Sem. of B.E. I																		
(CME, Chem., Met.)—4 Year		13	3	9	1	10				8	8				1	1	9	90.00%
115. II Sem. of B.E. I																		
(CME, Chem., Met.)—4 Year		154		144	10	154	20	31	74	8	133	2	1	5	1	9	142	92.2%
*116. I Sem. of B.E. III																		
(CME, Chem., Met.)—5 Year		12	2	10		10				8	8						8	80.00%
117. II Sem. of B.E. III																		
(CME, Chem., Met.)—5 Year		292	1	286	5	291	29	77	154	24	286	1	1	3	—	5	291	100%
118. II Sem. of B.E. II																		
(CME, Chem., Met.)—4 Year		29	1	26	2	28	9	10	6	1	26	1	1	—	—	2	28	100%
*119. I Sem. of B.E. IV (CME, Chem., Met., Electro.)—5 Year		5		5		5				5	5						5	100%
120. II Sem. of B.E. IV (CME, Chem., Met., Electro.)—5 Year		299		288	11	299	58	87	128	15	288	1	3	7	—	11	299	100%

\* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
121. II Sem. of B.E. III (CME, Chem., Met., Electro.)—4 Year																			
*122. I Sem. of B.E. V (Civil)		57		57		57		18	12	2	57						57	100%	
*123. I Sem. of B.E. V (Mech.)		1		1		1				1	1						1	100%	
*124. I Sem. of B.E. V (Elect.)		2		2		2				1	1						1	50.00%	
*125. I Sem. of B.E. V (Chem.)		1		1		1				1	1						1	100%	
*126. I Sem. of B.E. V (Electro.)		4		4		4				4	4						4	100%	
127. II Sem. of B.E. V (Civil)		2		2		2				2	2						2	100%	
128. II Sem. of B.E. V (Mech.)		122	1	119	2	121	77	36	5	—	118	2				2	120	99.00%	
129. II Sem. of B.E. V (Elect.)		116		116		116		97	13	5	116						116	100%	
130. II Sem. of B.E. V (Chem.)		56		53	3	56	14	16	22	1	53		3			3	56	100%	
131. II Sem. of B.E. V (Met.)		40		40		40		16	11	12	40						40	100%	
132. II Sem. of B.E. V (Electronics)		31		31		31		16	11	4	31						31	100%	
133. II Sem. of Final Year B.Tech.—Sandwich Course		33		31	2	33	9	14	8		31	1	1			2	33	100%	
*134. I Sem. of Final Year B.E. IV (Civil)—P.T.D.		9		9		9		9			9						9	100%	
*135. I Sem. of Final Year B.E. IV (Mech.)—P.T.D.		17		17		17					17	17					17	100%	
*136. I Sem. of Final Year B.E. IV (Elect.)—P.T.D.		19		19		19					18	18					18	94.2%	
137. II Sem. of Final Year B.E. IV (Mech.)—P.T.D.		16		16		16					9	9					9	56.25%	
138. II Sem. of Final Year B.E. IV (Elect.)—P.T.D.		1		1		1					1	1					1	100%	
*139. II Sem. of B.E. I (Electronics)		5		5		5				2	3	5					5	100%	
*140. I Sem. of B.E. II (Electronics)		20		12	4	16	3	5	3	—	11	1	2	1			4	15	93.75%
*141. II Sem. of B.E. II (Electronics)		3		3		3				3	3						3	100%	
*142. I Sem. of B.E. III (Electronics)		19		17	2	19		2	7	8	17			1	1	2	19	100%	
143. II Sem. of B.E. III (Electronics)		4		4		4		4			2	2					2	50.00%	
*144. M.E. (Civil)—Part I		21		21		21		5	5	12	19						19	90.48%	
*145. M.E. (Mech.)—Part I		6		6		6		1	6		2	2					2	33.33%	
		2		2		2		2			1	1					1	50.00%	

\* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
*146. M.E. (Elect.)—Part I		3	1	2	—	2	—	—	—	1	1	—	—	—	—	—	1	100%
*147. M.E. (Civil)—Part II		16	—	15	1	16	—	—	—	14	14	—	—	—	1	1	00.00%	
*148. M.E. (Mech.)—Part II		15	1	14	—	14	—	—	—	14	14	—	—	—	—	14	100%	
*149. M.E. (Elect.)—Part II		7	—	7	—	7	—	—	—	4	4	—	—	—	—	4	00.00%	
*150. M.E. (Met.)—Part II		5	1	4	—	4	—	—	—	4	4	—	—	—	—	4	100%	
*151. M.E. (Civil)—Part III		8	1	7	—	7	—	—	—	6	6	—	—	—	—	6	85.71%	
152. M.E. (Civil)—Part II		10	—	10	—	10	2	8	—	—	10	—	—	—	—	10	100%	
153. M.E. (Mech.)—Part IV		3	—	3	—	3	—	3	—	—	3	—	—	—	—	3	100%	
154. M.E. (Elect.)—Part IV		1	—	—	1	1	—	—	—	—	—	—	—	—	—	1	100%	
155. M.E. (Petro-Chem. Engg.)—Part IV		2	—	2	—	2	—	—	—	—	2	—	—	—	—	2	100%	
156. M.E.-IV (Civil) Geo. Tech.		4	—	3	1	4	1	2	—	—	3	1	—	—	1	4	100%	
157. M.E.-IV. (Civil) P.H.E.		1	—	1	—	1	—	1	—	—	1	—	—	—	—	1	100%	
158. M.E.-IV Mech. Produ. En.		2	—	2	—	2	—	2	—	—	2	—	—	—	—	2	100%	
159. M.E.-II Petro. Chem. En.		1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	100%	
*160. I Sem. of B.Arch. I		3	—	1	2	3	—	—	—	1	1	—	—	—	—	3	100%	
*161. II Sem. of B.Arch. I		33	—	21	12	33	—	5	11	5	21	—	—	2	2	3	100%	
*162. I Sem. of B.Arch. II		5	1	4	—	4	—	—	—	4	4	—	—	9	3	12	100%	
*163. II Sem. of B.Arch. II		34	—	15	18	33	1	—	9	5	15	—	4	13	1	18	100%	
*164. I Sem. of B.Arch. III		3	—	3	—	3	—	—	—	3	3	—	—	—	—	3	100%	
*165. II Sem. of B.Arch. III		29	—	21	8	29	3	5	10	3	21	—	1	7	—	8	100%	
*166. I Sem. of B.Arch. IV		1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	100%	
167. II Sem. of B.Arch. IV		35	—	26	9	35	—	—	20	5	25	—	—	5	4	9	100%	
*168. I Sem. of B.Arch. V		5	2	3	—	3	—	—	—	2	2	—	—	—	—	2	66.66%	
169. II Sem. of B.Arch. V		44	1	30	13	43	1	3	19	4	27	—	—	1	13	40	99.00%	
*170. I Sem. of P.G.Dip. Low Cost Housing		1	—	—	1	1	—	—	—	—	—	—	—	—	—	1	100%	
171. II Sem. of P.G.Dip. in Low Cost Housing		3	—	1	2	3	—	—	1	—	—	—	—	1	—	3	100%	
*172. I Sem. of B.Pharm. I		3	—	1	2	3	—	—	—	—	—	—	—	1	—	2	3	100%
173. II Sem. of B.Pharm. I		3	—	1	1	2	—	—	—	1	1	—	—	—	1	1	100%	
174. II Sem. of B.Pharm. II		27	—	5	20	25	1	3	—	1	5	2	4	11	3	20	100%	
175. II Sem. of B.Pharm. III		29	—	10	17	27	—	4	6	—	10	—	6	11	—	17	27	100%
		36	—	30	6	36	—	2	22	56	29	1	1	4	—	35	97.02%	

\* No Class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
*176. I Sem. of B.Pharm. IV		4	—	1	3	4	—	—	—	—	—	—	—	—	—	2	2	50.00%	
177. II Sem. of B.Pharm. IV		34	—	19	15	34	1	2	12	2	17	—	—	2	10	2	14	31	91.17%
*178. I Sem. of M.Pharm. I		1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	—	1	100%
179. II Sem. of M.Pharm. I		3	—	1	2	3	—	—	—	—	—	—	—	—	—	2	2	3	100%
180. II Sem. of M.Pharm. II		3	—	3	—	3	—	2	1	—	—	—	—	—	—	—	—	3	100%
181. S.Sem. of F.Y.B.Sc. Tech. (T.C.)		13	—	13	—	13	1	5	7	—	—	—	—	—	—	—	—	13	100%
182. S.Sem. of S.Y.B.Sc. Tech. (T.C.)		11	—	11	—	11	3	8	—	—	—	—	—	—	—	—	—	11	100%
183. S.Sem. of T.Y.B.Sc. Tech. (T.C.)		6	—	6	—	6	—	3	2	—	—	—	—	—	—	—	—	6	100%
*184. I Sem. of M.Sc. (Appl. Phys.)		3	1	2	—	2	—	—	—	2	2	—	—	—	—	—	—	2	100%
185. II Sem. of M.Sc. (Appl. Phys.)		10	1	9	—	9	—	—	—	7	7	—	—	—	—	—	—	7	77.77%
186. III Sem. of M.Sc. (Appl. Phys.)		4	1	3	—	3	—	—	—	2	2	—	—	—	—	—	—	2	66.66%
187. IV Sem. of M.Sc. (Appl. Phys.)		7	1	6	—	6	—	3	2	—	5	—	—	—	—	—	—	5	83.33%
*188. I Sem. of M.Sc. (Appl. Chem.)		1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	—	1	100%
189. II Sem. of M.Sc. (Appl. Chem.)		28	—	24	4	28	—	—	—	24	14	—	—	—	—	4	28	100%	
190. IV Sem. of M.Sc. (Appl. Chem.)		6	—	6	2	8	1	5	—	—	6	2	—	—	—	2	8	100%	
191. II Sem. of M.Sc. (Maths.)		6	—	6	—	6	—	—	—	5	5	—	—	—	—	—	—	5	83.33%
192. IV Sem. of M.Sc. (Maths.)		4	—	3	1	4	—	2	—	1	3	—	—	1	—	—	—	4	100%
193. First LL.B. (General)		232	41	169	22	191	—	2	42	—	44	—	—	9	—	9	53	27.76%	
194. IV Sem. LL.B. (General)		285	77	185	23	208	—	1	63	31	95	—	—	7	4	11	1066	51.94%	
195. VI Sem. of LL.B. (Special)		104	15	81	8	89	—	1	53	11	65	—	—	4	2	6	71	79.77%	
*196. LL.M.—Part I		70	43	65	5	70	—	—	—	1	1	—	—	—	—	—	1	03.70%	
197. LL.M.—Part II		20	7	11	2	13	—	—	2	—	2	—	—	—	—	—	2	15.38%	
198. P.G. Dip. in Taxation Laws		162	56	96	10	106	*2	—	—	60	62	*1	—	—	7	8	70	66.03%	
199. P.G. Dip. in Labour Laws		174	58	102	14	116	—	—	—	40	40	—	—	3	3	43	24.4%		
200. Dip. in Music Dance and Dramatics		71	5	34	32	66	—	6	14	8	28	—	—	6	15	3	24	52	78.00%
201. B.Mus.		25	1	11	13	24	—	2	5	4	11	—	—	7	4	1	13	24	100%
202. M.Mus.		9	—	3	6	9	—	—	2	1	—	—	—	2	3	—	6	9	100%
203. Post Dip. in Dramatics (Specialization in Acting)		4	—	2	2	4	—	—	—	2	2	—	—	—	1	1	2	4	100%
204. Dip. in Fine Arts		19	—	19	—	19	3	8	7	1	19	—	—	—	—	—	—	19	100%

\*Class is not awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
205. Post Dip. in Fine Arts	10	1	9	—	—	9	2	3	4	—	9	—	—	—	—	—	—	9	100%
206. B.A. ( Fine )	19	—	12	7	19	1	1	4	5	2	12	1	2	2	—	7	19	100%	
207. M.A. ( Fine )	20	—	12	8	20	—	—	6	6	—	12	—	3	5	—	8	20	100%	
208. M.A. ( Fine ) Museology	8	1	7	—	—	7	—	3	2	1	6	—	—	—	—	—	6	85.5%	
209. B.Sc. ( Home )	128	3	—	—	—	125	—	—	—	—	—	22	*59+19	1	101	1255	6	90.01%	
210. M.Sc. ( Home )	66	—	—	—	66	66	—	—	—	—	—	—	*25+24	6	55	55	55	100%	
211. P.G.Dip. in Pre-School Education	29	1	—	—	28	28	—	—	—	—	—	—	*5+18	2	25	25	25	86.20%	
212. M.S.W.	38	—	21	17	38	—	—	—	—	14	14	—	—	—	12	26	—	100%	
213. P.G.Dip. in I.R.P.M.	15	—	15	—	—	15	—	—	—	12	12	—	—	—	12	—	—	92.30%	

\*Class is not awarded.

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Appendix 15

Results of the University Examinations of June, 1981

Sr. No.	Examination	Number appeared		Number Passed																		Percentage of passes
		Men	Women	Men									Women									
		No. Regd.	No. Absent	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class Dist.	I Class	II Class	Pass Class	Total	I Class	II Class	Pass Class	Total				
1.	F.Y.B.A. ( NC )	9	3	4	—	—	—	2	2	—	—	—	4	4	—	—	—	6	100%			
2.	S.Y.B.A.	53	8	25	—	—	—	17	17	—	—	—	12	12	—	—	—	29	64.44%			
3.	T.Y.B.A.	102	31	42	—	—	—	17	17	—	1	—	16	19	—	—	—	36	50.70%			
4.	M.A.—Part I	29	3	22	—	—	—	16	16	—	—	—	3	3	—	—	—	19	73.00%			
5.	M.A.—Part II	22	4	14	—	—	—	4	10	—	—	—	1	4	—	—	—	14	77.77%			
6.	F.Y.B.Sc.	12	1	8	—	—	—	5	5	—	—	—	2	2	—	—	—	6	54.55%			
7.	S.Y.B.Sc.	54	10	41	—	—	—	26	26	—	—	—	2	28	—	—	—	28	63.77%			
8.	T.Y.B.Sc.	57	13	41	—	—	—	7	15	—	—	—	1	25	—	—	—	25	79.54%			
9.	M.Sc. ( Previous )	24	—	18	—	—	—	12	12	—	—	—	5	17	—	—	—	17	70.82%			
10.	M.Sc. ( Final )	8	1	6	—	—	—	1	5	—	—	—	—	7	—	—	—	7	100%			
11.	F.Y.B.Com.	41	3	25	—	—	—	1	12	—	—	—	10	10	—	—	—	24	63.15%			
12.	S.Y.B.Com.	105	4	80	—	—	—	61	61	—	—	—	15	15	—	—	—	76	75.24%			
13.	T.Y.B.Com. ( O. 25 )	11	2	9	—	—	—	7	7	—	—	—	—	7	—	—	—	7	77.77%			
14.	T.Y.B.Com.	431	70	275	—	—	—	22	94	—	—	—	35	39	—	—	—	155	42.93%			

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
73. I Sem. of B.E. IV (Electronics) —4 Year	27	—	—	26	1	27	—	—	—	25	25	—	—	—	1	1	26	100%
74. II Sem. of B.E. IV (Elect.)—4 Year	2	—	—	2	—	2	—	—	—	1	2	—	—	—	—	—	2	100%
75. I Sem. of B.E. V (Civil)—4 Year	11	—	—	11	—	11	—	—	—	11	11	—	—	—	—	—	11	100%
76. I Sem. of B.E. V (Mech.)—4 Year	17	—	—	17	—	17	—	—	—	17	17	—	—	—	—	—	17	100%
77. I Sem. of B.E. V (Elect.)—4 Year	12	—	—	12	—	12	—	—	—	12	12	—	—	—	—	—	12	100%
78. I Sem. of B.E. V (Chemical)—4 Year	9	—	—	9	—	9	—	—	—	8	8	—	—	—	—	—	8	88.88%
79. I Sem. of B.E. V (Metallurgy)—4 Year	1	—	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
80. I Sem. of B.E. V (Civil)—5 Year	90	—	—	90	—	90	—	—	—	90	90	—	—	—	—	—	90	100%
81. I Sem. of B.E. V (Mech.)—5 Year	84	—	—	84	—	84	—	—	—	84	84	—	—	—	—	—	84	100%
82. I Sem. of B.E. V (Elect.)—5 Year	41	—	—	37	4	41	—	—	—	36	36	—	—	4	4	40	97.5%	
83. I Sem. of B.E. V (Chemical)—5 Year	38	—	—	38	—	38	—	—	—	36	36	—	—	—	—	—	36	94.2%
84. I Sem. of B.E. V (Metallurgy)—5 Year	24	—	—	24	—	24	—	—	—	24	24	—	—	—	—	—	24	100%
85. I Sem. of B.E. V (Electronics)—5 Year	36	—	—	35	1	36	—	—	—	35	35	—	—	—	—	—	36	100%
86. I Sem. of F.Text. (Engg. and Tech.)	48	1	—	47	—	47	—	—	—	37	37	—	—	—	—	—	37	78.7%
87. I Sem. of S.Text. (Engineering)	30	—	—	30	—	30	—	—	—	29	29	—	—	—	—	—	29	96.6%
88. I Sem. of S.Text. (Tech.)—5 Year	39	—	—	39	—	39	—	—	—	33	33	—	—	—	—	—	33	84.61%
89. I Sem. of T.Text. (Engg.)—5 Year	36	—	—	36	—	36	—	—	—	30	30	—	—	—	—	—	30	83.3%
90. I Sem. of T.Text. (Technology)	39	—	—	39	—	39	—	—	—	38	38	—	—	—	—	—	38	97.4%
91. I Sem. of Final Year B.Text. (Engineering)—5 Year	41	—	—	41	—	41	—	—	—	30	30	—	—	—	—	—	30	73.1%
92. I Sem. of Final Year B.Text. (Technology)—5 Year	29	—	—	29	—	29	—	—	—	28	28	—	—	—	—	—	28	96.3%
93. I Sem. of B.E. I (Civil)—5 Year	4	—	—	4	—	4	—	—	—	3	3	—	—	—	—	—	3	75.00%
94. I Sem. of B.E. I (Civil)—4 Year	103	—	—	100	3	103	—	—	—	72	72	—	—	2	2	74	71.82%	
95. I Sem. of B.E. I (Mech.)—4 Year	97	1	—	95	1	96	—	—	—	85	85	—	—	1	1	86	89.55%	
96. I Sem. of B.E. I (Elect.)—4 Year	62	—	—	55	7	62	—	—	—	43	43	—	—	6	6	49	79.3%	
97. I Sem. of B.E. I (Chemical)—4 Year	31	2	—	29	—	29	—	—	—	20	20	—	—	—	—	—	20	70.00%
98. I Sem. of B.E. I (Metallurgy)—4 Year	80	9	—	71	07	78	—	—	—	55	55	—	—	5	5	60	76.91%	
99. II Sem. of B.E. I (Civil)—5 Year	3	1	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
100. I Sem. of B.E. II (Civil)—5 Year	69	—	—	67	2	69	—	—	—	59	59	—	—	2	2	61	88.4%	
101. I Sem. of B.E. II (Mech.)—5 Year	69	—	—	68	1	69	—	—	—	62	62	—	—	1	1	63	91.30%	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
102. I Sem. of B.E. II (Elect.)—5 Year	41	—	—	34	7	41	—	—	—	—	30	30	—	—	—	—	5	5	35	41.35%
103. I Sem. of B.E. II (Chemical)—5 Year	10	—	—	110	—	110	—	—	—	—	11	11	—	—	—	—	—	—	11	100%
104. I Sem. of B.E. II (Metallurgy)—5 Year	50	—	—	46	3	49	—	—	—	—	38	38	—	—	—	—	3	3	41	83.66%
105. I Sem. of B.E. II (Electronics)—5 Year	7	—	—	7	—	7	—	—	—	—	7	7	—	—	—	—	—	—	7	100%
106. I Sem. of B.E. III (Civil)—5 Year	105	—	—	101	4	105	—	—	—	—	77	77	—	—	—	—	3	3	80	76.19%
107. I Sem. of B.E. III (Mech.)—5 Year	96	—	—	96	—	96	—	—	—	—	87	87	—	—	—	—	—	—	87	90.62%
108. I Sem. of B.E. III (Elect.)—5 Year	85	—	—	78	7	85	—	—	—	—	71	71	—	—	—	—	8	8	79	92.91%
109. I Sem. of B.E. III (Metallurgy) —5 Year	31	—	—	31	—	31	—	—	—	—	20	20	—	—	—	—	—	—	20	64.55%
110. I Sem. of B.E. III (Electronics) —5 Year	11	—	—	11	—	11	—	—	—	—	11	11	—	—	—	—	—	—	11	100%
111. II Sem. of B.E. V (Civil)—5 Year	2	—	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	—	2	100%
112. I Sem. of B.E. I (Elect.)—5 Year	31	1	—	29	1	30	—	—	—	—	28	28	—	—	—	—	1	1	29	96.66%
113. I Sem. of B.E. II (Electronics) —5 Year	28	—	—	22	6	28	—	—	—	—	17	17	—	—	—	—	5	5	22	78.57%
114. I Sem. of B.E. III (Electronics) —5 Year	29	—	—	26	3	29	—	—	—	—	22	22	—	—	—	—	2	2	24	82.75%
115. M.E.—Part I (Civil)	21	3	—	18	—	18	—	—	—	—	7	7	—	—	—	—	—	—	7	38.38%
116. M.E.—Part I (Mechanical Production and Engineering)	17	2	—	15	—	15	—	—	—	—	12	12	—	—	—	—	—	—	12	80.00%
117. M.E.—Part I (Electrical)	13	3	—	10	—	10	—	—	—	—	5	5	—	—	—	—	—	—	5	50.00%
118. M.E.—Part I (Petro-Chemicals)	8	—	—	8	—	8	—	—	—	—	6	6	—	—	—	—	—	—	6	75.0%
119. M.E.—Part III (Civil)	17	4	—	12	1	13	—	—	—	—	10	10	—	—	—	—	1	1	11	84.61%
120. M.E.—Part III (Mechanical)	13	—	—	13	—	13	—	—	—	—	13	13	—	—	—	—	—	—	13	100%
121. M.E.—Part III (Electrical)	5	1	—	4	—	4	—	—	—	—	4	4	—	—	—	—	—	—	4	100%
122. M.E.—Part III (Metallurgy)	4	—	—	4	—	4	—	—	—	—	3	3	—	—	—	—	—	—	3	100%
123. M.E.—Part IV (Civil)	5	—	—	5	—	5	—	—	—	—	3	3	—	—	—	—	—	—	5	100%
124. M.E.—Part IV (Electrical)	1	—	—	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	1	100%
125. M.E.—Part IV (Metallurgy)	6	2	—	4	—	4	—	—	—	—	3	3	—	—	—	—	—	—	4	100%
126. M.Text.—Part I (Engineering)	5	—	—	5	—	5	—	—	—	—	5	5	—	—	—	—	—	—	5	100%
127. M.Text.—Part III (Engineering)	4	—	—	4	—	4	—	—	—	—	4	4	—	—	—	—	—	—	4	100%
128. I Sem. of M.Sc. (Applied Physics)	25	1	—	21	3	24	—	—	—	—	15	15	—	—	—	—	3	3	18	75.00%
129. II Sem. of M.Sc. (Applied Physics)	2	—	—	2	—	2	—	—	—	—	2	2	—	—	—	—	—	—	2	100%



## CAPITAL ACCOUNTS

## I—University General Fund

( Subject to Audit )

1981-82

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1981	22,92,340-13		Building Works	1,63,082-20	
Interest	1,72,346-53		Closing Balance	23,01,604-46	
<b>Total</b>	<b>24,64,686-66</b>			<b>24,64,686-66</b>	

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## II—Ayurvedic Research Fund

( Subject to Audit )

1981-82

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1981	12,39,665-98		Amount transferred towards the excess recurring expenditure over the State Government Grant during the year	1,07,041-03	
Interest	1,22,589-39		Closing Balance	12,55,214-34	
<b>Total</b>	<b>13,62,255-37</b>			<b>13,62,255-37</b>	

## III—Post-Graduate Instruction and Research Fund

( Subject to Audit )

1981-82

Receipts	Rs.	P.	Payments	Rs.	P.
Opening Balance as on 1-4-1981	54,74,257-41		( i ) Expenditure on Research Schemes ( including Research Assistants )	1,47,879-82	
Interest	5,58,040-09		( ii ) Two Post-Doctoral Fellowships @ Rs. 400/- p.m. each and contingent grant @ Rs. 1000/- p.a. each	16,223-44	
			( iii ) 12 Scholarships of Rs. 250/- p.m. and contingent grant of Rs. 500/- p.m. per Scholar	20,171-68	
			Closing Balance	58,48,022-56	
<b>Total</b>	<b>60,32,297-50</b>			<b>60,32,297-50</b>	

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## REVENUE ACCOUNTS

(Subject to Audit)

1981-82

Sr. No.	Particulars	Receipts		Particulars	Disbursements	
		Rs.	P. No.		Rs.	P.
1	2	3	1	2	3	4
I (A)	Grants from the State Government (1 to 2)	3,25,24,230-88		I University General Administration (1 to 11)	16,30,927-07	
(1)	Block Grant from the State Government	2,11,18,763-00		II Examination Charges (1 to 14)	13,68,450-70	
(2)	Additional Block Maintenance Grant from the State Government	1,14,05,467-88		III Publications	98,789-18	
(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	1,000-00	
(i)	Vishnupuran Project	1,30,006-00		V Travelling Allowance	73,316-99	
(ii)	Introduction of Degree Course in Pharmacy (Faculty of Technology and Engineering)			VI Printing, Stationery and Postages	2,09,459-50	
				VII Interest on Bank Overdraft and also Interest on Balance of Funds not Investment due to Financial Stringency	6,73,991-47	
				VIII Maintenance of Buildings and Roads (including Residential Quarters and N.C.C. Buildings)	6,96,192-36	
(iii)	Special Assistance to Bio-Chemistry Department (Faculty of Science) 1st Phase	60,778-00		IX Maintenance of Gardens	1,06,870-47	
(iv)	Expenditure on Vth Plan Posts for various Faculties from 1-4-1981 to 31-3-1982 (Excluding Faculty of Technology and Engineering as Scheme completes on 31-3-1984) (N.B.—Expenditure is calculated for all months in 1981-82)	11,23,228-00		X Games, Sports and Student's Welfare and other Activities	10,73,189-46	
(b)	100% Grant towards additional expenditure on increase in the rates of Dearness Allowance, House Rent Allowance and Compensatory Local Allowance during the Currency of the Triennium			XI Miscellaneous (A, B and C)	4,76,344-34	
(c)	3½% Wage Bill Grant on the Wage Bill of preceding year on a cumulative basis during each year of the triennium for annual increments etc.	44,00,000-00		(A) Memberships and Contribution	27,625-77	
(B) Additional Grants :				(B) Office Equipment	29,716-60	
(i)	For additional intake of 100 students in Extended Diploma courses in Civil, Mechanical and Electrical Engineering (Polytechnic)	29,22,100-00		(C) Other Items	4,19,001-97	
				XII Faculties and Institutions :	3,47,01,484-48	
				Faculties :		
				(a) Faculty of Arts	31,17,857-28	
				(b) Faculty of Science	69,34,984-95	
				(c) Faculty of Education and Psychology	18,03,905-80	
				(d) Faculty of Commerce	16,70,473-31	
				(e) Faculty of Technology and Engineering	85,17,366-21	
				(i) Faculty of Technology and Engineering	85,17,366-21	
				(ii) Introduction of Degree	4,05,691-28	
				(iii) Part-time Degree course for Diploma students in C.M.E.		
				(f) Faculty of Law	2,39,328-79	
				(g) Faculty of Fine Arts	3,24,902-06	
					13,32,931-16	

(ii)	For Five Semester Post-Higher Secondary (Std. XII) Science Stream Diploma in Civil, Mechanical Engineering (Polytechnic)	10,00,000-00	(h) Faculty of Home Science (i) Faculty of Social Work	19,42,844-37 6,52,047-51
(iii)	For additional staff for additional 600 admissions given in the F.Y.B.Com. Class	—	<b>Institutions :</b>	
(iv)	Towards filling up of vacant posts (Subject to State Government's approval)	—	(j) (i) Oriental Institute (ii) Vishnupurana Project	3,93,211-11 1,16,039-76
(v)	Towards works of Ordinary Repairs to Buildings	—	(k) College of Indian Music, Dance and Dramatics	11,74,203-44
(vi)	Towards the approved works of special Repairs to University Buildings	3,00,000-00	<b>XIX Additional Expenditure for all Institutions on Account of increase in the rates of Dearness Allowance</b>	
(vii)	Towards expenditure on Leave Travel Concession given to the University employees	12,14,755-88	<b>XX Cost of Card Punching and verification Stationery Computer time etc. for Computerization of University Pay Roll</b>	22,159-18
(viii)	Towards Revival of vacant posts in the Polytechnic	2,20,000-00	<b>XXI Additional Furniture for different Faculties</b>	
(ix)	Towards Washing Allowance	—	(a) Faculty of Commerce (b) Faculty of Fine Arts (c) Faculty of Law (d) Music College (e) For other Faculties/Institutions	2,28,625-85 2,07,648-85 Less 6,523-00 27,500-00
(x)	Towards supplying Woollen Coat and Pant to Class IV Employees as per Government Rules	—	<b>XXII Pensions</b>	—
(xi)	Towards purchase of a Water Cooler for the University Library	25,000-00	<b>XXIII School of Management Studies and Research (Preliminary Expenses)</b>	500-00
(xii)	Towards the maintenance of Vehicle of History Department	9,600-00		
I (B)	Grant from the University Grants Commission towards the Grants Commission Unit in the University	12,000-00		
II	Fees from the Students (A + B + C)	1,09,76,538-65		
(A)	Academic :			
(i)	Tuitions Fees and Miscellaneous Income from Faculties and Institutions	90,94,962-77		
<b>Faculties :</b>				
(a)	Faculty of Arts	9,59,837-50		
(b)	Faculty of Science	11,83,491-73		
(c)	Faculty of Education and Psychology	3,95,390-15		
(d)	Faculty of Commerce	19,43,006-00		
(i)	Faculty of Technology and Engineering	16,42,874-81		
(ii)	Introduction of Degree Course in Pharmacy	67,570-00		

1	2	3	1	2	3
	(iii) Part-time Degree Course in Diploma Students in C.M.E.				
(f)	Faculty of Law	1,28,619-80			
(g)	Faculty of Fine Arts	6,89,796-00			
(h)	Faculty of Home Science	1,15,443-65			
(i)	Faculty of Social Work	3,96,942-30			
		90,300-74			
	<b>Institutions :</b>				
(j)	College of Indian Music, Dance and Dramatics	1,08,428-04			
(k)	Sanskrit Mahavidyalaya	26-75			
(l)	Shri M. K. Amin Arts and Science College and College of Commerce, Padra				
(m)	(i) Polytechnic	7,51,422-00			
	(ii) Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	4,07,353-30			
	(iii) Extended Diploma in Civil, Mechanical and Electrical Engineering Courses (additional intake of 100 students)	51,118-00			
	(iv) Five Semester Post-Higher Secondary (Std. XII) Science Stream Diploma Course in Civil, Mechanical and Electrical Engineering (Polytechnic)	23,100-00			
(ii)	<b>Fees for Enrolment etc. :</b>				
	(a) For Enrolment Certificates	81,132-00			
		55,790-00			

(b)	For Post-graduate Registration	3,240-00			
(B)	Examination Fees	13,80,093-49			
(C)	Other Fees	5,01,482-39			
III	Income from Halls of Residence for Students and other Properties	9,40,590-50			
IV	Income from Occupation of Buildings, Lands and other Properties				
V	Health Services—University Health Centre	5,89,123-48			
VI	University Auxiliary Services (a + b + c)	5,496-80			
	(a) Income from M. S. University of Baroda Press	14,91,616-06			
	(b) Income from M. S. University Stationery Unit	7,61,544-20			
	(c) Income from M. S. University Publications Sales Unit	6,23,647-10			
VII	Miscellaneous Receipts	1,06,424-76			
VIII	Sheth U. P. Ayurvedic Research Unit	2,08,774-94			
	(1) State Government Grant	1,39,762-28			
	(2) Income from Out-Patient Ward	30,000-00			
	(3) Excess Recurring Expenditure met from Ayurvedic Research Fund	2,721-25			
IX	Refund of Insurance Premium on Insurance of Buildings, Equipments, Books etc.	1,07,041-03			
		15,180-00			
	<b>Total Receipts</b>	<b>4,69,03,313-59</b>			
	<b>Add : Excess of Disbursements Over Receipts i.e. DEFICIT</b>	<b>23,58,887-47</b>			
	<b>Grand Total</b>	<b>4,92,62,201-06</b>			
				<b>Grand Total</b>	<b>4,92,62,201-06</b>

## Grants for Development and Research Scheme 1981-82

Sr. No.	Name of Agency	Grant Rs. P.
1.	University Grants Commission	42,18,766-56
2.	Ministry of Education, Government of India	4,09,404-66
3.	Council of Scientific and Industrial Research	1,61,718-83
4.	Indian Council of Social Science Research	84,424-00
5.	Government of Gujarat ( Matching Grant )	2,41,086-00
6.	Government of Gujarat ( Research and Other Schemes )	3,94,175-25
7.	Grant from Government of India	6,56,455-00
8.	United States Departments of Agriculture ( AM-PL-480 Programmes )	88,378-00
9.	Central Social Welfare Board	1,06,920-00
10.	National Council of Educational Research and Training	45,000-00
11.	Indian Council of Agriculture Research	2,63,900-00
12.	Indian Council of Historical Research	12,350-00
13.	Ministry of Health	3,31,800-00
14.	Grant from Government of India National Science Academy	21,900-00
15.	Grant from Government of India, Department of Atomic Energy	52,894-10
16.	Grant from Ford Foundation Programme for Post-graduate Training and Research	88,105-73
17.	Other Bodies	16,000-00
<b>Total</b>		<b>71,93,278-13</b>