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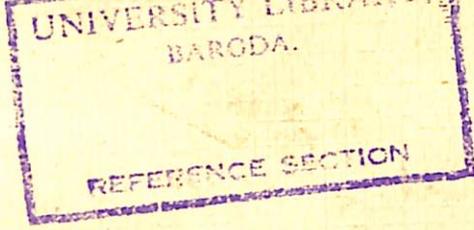
M. S. University of Baroda

Fifteenth

Annual Report

1963-64.

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P. L. Sharma

# The Maharaja Sayajirao University of Baroda



## FIFTEENTH ANNUAL REPORT

1963-64



BARODA

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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

FIFTEENTH ANNUAL REPORT, 1963-64

(1st April, 1963 to 31st March, 1964)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

# THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



## FIFTEENTH ANNUAL REPORT, 1963-64

### INTRODUCTION

The idea of establishing a University at Baroda was engaging the attention of the former Government of Baroda State since the year 1909. Some schemes for the establishment of a University were framed but none of them materialised. The Baroda University Commission of 1925 made out a strong case for the immediate establishment of a Unitary Residential University at Baroda having the Faculties of Arts, Science, Technology and Agriculture, Economics, Commerce and Administration. Besides the faculties, the University was to have the Institute for Oriental Studies, the Institute for Gujarati Studies, the School of Fine Arts, the School of Nursing and the School of Domestic Science. Provision was also to be made for extension programmes, the library movement as a University extension movement and compulsory medical examination. Although circumstances at that time were not favourable to the establishment of a separate University the idea was not given up. The following institutions for higher education were established in Baroda during the two decades that followed:

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

In 1947, His Highness Maharaja Sir Pratapsinh Gaekwad encouraged the idea of the University and appointed a Committee to consider the question of the early establishment of the University. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended that the University should be primarily a teaching and residential University with power to affiliate mofussil colleges and should institute the tutorial system of instruction. All the existing higher educational institutions including the Central Library, the Oriental Institute and the Kalabhavan were to be taken

over by the University. The Committee also recommended that the Government should give a block grant of Rs. 25 lakhs annually to the University for the first five years.

The Government of Baroda in their Order No. ( R ) 169-39 dated the 21st February, 1949, decided to establish a residential University for Baroda and to affiliate to it the Colleges at Visnagar, Petlad and Navsari which were situated in the State of Baroda. Due to the subsequent merger of the Baroda State with the State of Bombay, the Baroda Government restricted the jurisdiction of the University to the area within a radius of ten miles from the University Office. The University started working on the 30th April, 1949 with the following institutions:

(a) Constituent Institutions under the management of the University:

1. The Baroda Arts and Science College
2. The Pratapsinh College of Commerce and Economics
3. The Secondary Teachers' Training College
4. The Kalabhavan and the Engineering College
5. The Music College
6. The Oriental Institute

(b) Constituent College managed by the Government of Bombay:

7. The Baroda Medical College.

(c) Constituent recognised Institutions managed by the Government of Bombay:

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

By June, 1950 the institutions taken over were re-organised into six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, Technology and Engineering. The First Year and the Intermediate classes in Arts and Commerce were organised into a separate institution called the Intermediate College. Three new Faculties of Fine Arts, Home Science and Social Work were also started from June, 1950. The management of the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the Old Baroda High School were taken over by the University from the then Government of Bombay in 1951. The University continued to follow the Bombay University courses and the standards of admissions, examinations, etc. in the old Faculties during the academic years 1949-50 and 1950-51. During this period new courses and standards of admissions and examinations were prescribed and they were introduced year after year from June, 1951 onwards. The first examinations of the University were held in March-April, 1951.

Since then the Faculties have made considerable progress. The old courses have been thoroughly revised, special emphasis being laid on tutorials and home-assignments consistent with the special requirements of a teaching University.

At the same time proper arrangements were made for the starting of new departments and courses, provision of adequate staff, improvement of old buildings and provision for new buildings and the sanctioning of the necessary grants for library, equipment and contingent expenditure. A new institution called the Polytechnic to conduct diploma courses in Civil, Electrical and Mechanical Engineering was started in the year 1957-58. The Intermediate College was discontinued from the year 1958-59 and instead, the Preparatory Unit conducting Preparatory Courses in Arts, Science and Commerce was established. The Faculty of Law was started in the year 1961-62. The developments during the preceding years are described in the fourteen Annual Reports published so far. This fifteenth Annual Report covers the period from the 1st April, 1963 to the 31st March, 1964, and is submitted to the Senate in accordance with Section 24 (2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

## CHAPTER I—GENERAL

## 1. Institutions in the University

Constituent and Recognised Institutions (under Sections 42 and 69 of the Act) :—

- (1) (a) Faculty of Arts:—Provides Courses leading to the degree of B.A. and M.A. and guidance in research for the Ph.D. degree. It also provides a Post-graduate course leading to the Diploma in Library Science, a Diploma and a certificate course in German language and a certificate course in Russian language.
- (b) Oriental Institute:—Provides facilities for a research work in Sanskrit and Ancient Indian Culture and undertakes publication work in Gujarati, Marathi and Sanskrit.
- (c) Baroda Sanskrit Mahavidyalaya:—Provides courses leading to the degrees of 'Shastri' and 'Acharya' and guidance for research for the degree of 'Vachaspati', the diploma of 'Visharad' and the certificates of 'Pauranic' and 'Upadhyaya'.
- (2) Faculty of Science:—Provides courses leading to the degree of B.Sc. and M.Sc. and guidance in research for the Ph.D. degree. It also provides a one-year Pre-Medical Course.
- (3) Faculty of Education and Psychology:—Provides courses leading to the degrees of B.Ed., M.Ed., B.A. (Psychology) and M.A. (Psychology); and guidance in research for the Ph.D. degree. The Faculty also provides instruction for the courses leading to Post-graduate diplomas in (i) Educational Administration, (ii) Guidance and Counselling and (iii) Applied Linguistics; and Under-graduate diplomas in (i) Teaching and (ii) Early Childhood Education. The University Experimental School is attached to the Faculty for experiments in Education and Psychology and conducts classes from Standard I to Standard XI leading to the examination for the Secondary School Certificate of the Gujarat State.
- (4) Faculty of Commerce:—Provides courses leading to the degrees of B.Com. and M.Com., Post-graduate diplomas in (1) Banking and (ii) Co-operation; Under-graduate diploma in Co-operation and Guidance in research for the Ph.D. degree.
- (5) (a) Faculty of Medicine (The Medical College):—Provides courses leading to the degrees of M.B., B.S., M.D., M.S.,

M.Sc., and Ph.D. and Post-graduate diplomas in D.O., D.A., D.L. & O., D.M.R. & E., D.Ped., D.V. & D., T.D.D., D.C.P. and D.G.O. The College is managed by the Government of Gujarat.

- (b) Sheth Ujamshi Pitambardas Ayurvedic Research Unit:—Provides facilities for research in Ayurveda.
- (6) (a) Faculty of Technology and Engineering:—Provides courses leading to the degrees of B.E. (Civil, Mechanical, Electrical, and Chemical), B.Text. (Eng.), B.Text. (Tech.) and B.Arch., and M.E. (Civil, Mechanical and Electrical), the diplomas in Textile Chemistry and Textile Technology and guidance in research for the Ph.D. degree in Textile Chemistry.
- (b) Polytechnic:—Provides courses leading to diplomas and part-time diplomas in Civil, Electrical and Mechanical Engineering.
- (7) (a) Faculty of Fine Arts:—Provides courses leading to the degrees of B.A. (Fine) and M.A. (Fine), Post-diploma and diploma courses in Painting, Sculpture and Applied Arts, Post-graduate diploma course in Museology, diploma course in Textile Design and certificate courses in Photography, Lithography, Pottery, Wood-work, Bronze-Casting and Process and Block-Making.
- (b) College of Indian Music, Dance and Dramatics:—Provides courses leading to the degrees of B.Mus. and M.Mus. and diplomas in Music (Vocal and Instrumental), Dance and Dramatics, and advance diploma course in Dance and a three year S.S.C. course in Vocal Music.
- (8) Faculty of Home Science:—Provides courses leading to the degrees of B.Sc. (Home) and M.Sc. (Home) and guidance in research for Ph.D. in Foods and Nutrition and the Post-graduate diploma in Nursery School Education. The Chetan Balwadi with a Kindergarten class is also attached to the Faculty for experiments and observations in Child Development.
- (9) Faculty of Social Work:—Provides a Post-graduate course leading to the degree of M.S.W.
- (10) Faculty of Law:—Provides courses leading to the degree of Bachelor of Law (LL.B.) and Post-graduate diploma in Taxation Laws and Practice.
- (11) Preparatory Unit:—Provides courses leading to the Preparatory examinations in Arts, Science and Commerce.
- (12) The Museum and Picture Gallery (managed by the Government of Gujarat).

## 2. Number of Students in the University

The following statements show the number of the students in the University and the number of non-University students at the commencement of the year 1963-64:

Statement showing the number of students at the commencement of academic year 1963-64

Institutions	*Post-graduate Courses						Degree Courses		Diploma Courses		Total		Grand Total 1961-62	
	2		3		4		5		6		7			Grand Total 1963-64
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women		
1 Faculty of Arts .. .. .	145	63	535	426	19	1	699	490	1189	1177	1128	1128		
2 Faculty of Science .. .. .	263	36	449	131	—	—	712	167	879	820	722	722		
3 Faculty of Education and Psychology .. .. .	61	30	86	84	19	28	166	142	308	264	321	321		
4 Faculty of Commerce .. .. .	61	2	1033	36	†2	—	1096	38	1134	1108	1141	1141		
5 Faculty of Medicine .. .. .	91	21	295	74	—	—	386	95	481	417	399	399		
6 Faculty of Technology and Engineering .. .. .	847	—	1720	31	296	—	2063	31	2094	1875	1826	1826		
7 Faculty of Fine Arts .. .. .	16	6	68	18	‡68	7	152	31	†183	176	183	183		
8 Faculty of Home Science .. .. .	—	79	—	481	—	—	—	560	560	504	432	432		
9 Faculty of Social Work .. .. .	60	20	—	—	—	—	60	20	80	73	77	77		
10 Faculty of Law .. .. .	21	2	424	40	—	—	445	42	487	458	284	284		
11 Preparatory Unit .. .. .	—	—	1367	407	—	—	1367	407	1774	1602	1448	1448		
12 College of Indian Music, Dance and Dramatics .. .. .	5	—	19	17	—	—	24	17	41	47	54	54		
13 Baroda Sanskrit Mahavidyalaya .. .. .	14	—	7	1	18	3	39	4	43	53	41	41		
14 Polytechnic .. .. .	—	—	—	—	1057	5	1057	5	1062	867	918	918		
<b>Total</b>	<b>784</b>	<b>259</b>	<b>6003</b>	<b>1746</b>	<b>1479</b>	<b>44</b>	<b>8266</b>	<b>2049</b>	<b>10315</b>	<b>9441</b>	<b>8974</b>	<b>8974</b>		

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

† Excludes 4 students of S.Y.B.Com. joining the undergraduate Diploma in Co-operation.

‡ Includes Post-Diploma students also.

§ Does not include 16 men students and 6 women students who are non-collegiate and Government Scholars and Foreign scholars.

§ Includes 6 Government of India Technical Teachers Trainees.

Statement showing non-University Students at the commencement  
of the year 1963-64

<i>Institutions</i>	<i>Men</i>	<i>Women</i>	<i>Total</i> 1963-64	<i>Total</i> 1962-63	<i>Total</i> 1961-62
1	2	3	4	5	6
<b>(A) Diploma Courses:</b>					
1. College of Indian Music, Dance and Dramatics	258	205	463	375	453
<b>(B) Certificate Courses:</b>					
1. Faculty of Arts	241	14	255	172	24
2. Faculty of Technology and Engineering	—	—	—	7	81
3. Faculty of Fine Arts	5	—	5	4	13
4. Baroda Sanskrit Maha- vidyalaya	32	4	36	37	45
<b>(C) S.S.C. Course:</b>					
1. University Experimental School	245	191	436	440	430
<b>(D) Nursery Courses:</b>					
1. Chetan Balwadi	36	30	66	74	60
2. Kindergarten	8	11	19	11	25
<b>Total</b>	<b>825</b>	<b>455</b>	<b>1280</b>	<b>1120</b>	<b>1131</b>

### 3. Special Features of the Year

- ( i ) The following new courses were started during the year:
- Ph.D. in Foods and Nutrition.
  - Post-graduate Diploma in Taxation Laws and Practice.
  - B.Chem. ( Eng. ) in Chemical Engineering.
  - Part-time Diploma in Civil, Mechanical and Electrical Engineering.
  - Certificate in Russian Language.
- ( ii ) The new building of the General Education Centre was declared open on the 12th April, 1963 by H. E. Professor G. K. Galbraith, Ambassador of the United States of America in India.



His Excellency Professor J. K. Galbraith delivering the Inaugural Address

- ( iii ) A six week Refresher Course in Soil Mechanics and Foundation Engineering was organised by the Faculty of Technology and Engineering with financial help from University Grants Commission from the 15th April to the 31st May, 1963, for the benefit of serving engineers and teachers in technical institutions. An intense programme of studies through lectures, discussions, project studies and educational tours was arranged for the participants.
- ( iv ) Mr. M. George Meunier, Consul General of France visited the University on the 26th July, 1963. He visited the Oriental Institute, Shrimati Hansa Mehta Library, and the Department of Archaeology and Ancient History.
- ( v ) The Birth Centenary of Professor Tribhovandas Kalyandas Gajjar was celebrated by the University on the 3rd August, 1963 at the Faculty of Technology and Engineering. The University instituted Professor T. K. Gajjar Chair in Microbiology. The expenditure for the institution of the Chair will be met from the income of the donation offered by the Alembic Chemical Works Limited, Baroda.
- ( vi ) Shri Sarad Prasad Upadhyaya, Treasurer, Tribhuvan University, Nepal, visited the University on the 9th and the 10th August, 1963 to study the administrative organisation of the University. He also visited the Oriental Institute, Shrimati Hansa Mehta Library, Department of Archaeology and Ancient History, Faculties of Fine Arts and Home Science.
- ( vii ) The Thirteenth Annual Convocation for conferring degree and diplomas was held on the 30th November, 1963 in the University Gardens. Professor Humayun Kabir, Minister for Petroleum and Chemicals, Government of India addressed the Convocation.

The following degrees and diplomas were conferred on that day:

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
1.	Ph.D. ( Arts )	1	3	4
2.	Ph.D. ( Science )	4	4	8
3.	M.D.	3	—	3
4.	M.S.	1	1	2
5.	M.A.	47	30	77
6.	B.A.	191	59	250
7.	B.A.	5	—	5
8.	Shastri	4	4	8
9.	Diploma in Library Science	66	37	103
10.	M.Sc.	61	18	79
11.	B.Sc.	3	16	19
12.	M.Ed. ( By papers )	46	58	104
13.	B.Ed.	1	2	3
	Diploma in Educational Administration			

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
14.	Diploma in Applied Linguistics	1	3	4
15.	M.Com.	17	7	24
16.	B.Com.	159	67	226
17.	Diploma in Banking	4	5	9
18.	M.Sc. ( In Medical subjects )	2	—	2
19.	M.B.,B.S.	14	11	25
20.	Diploma in Anaesthesiology	1	1	2
21.	Diploma in Laryngology and Otology	1	4	5
22.	Diploma in Clinical Pathology	3	—	3
23.	Diploma in Gynaecology and Obstetrics	—	4	4
24.	M.E.	1	3	4
25.	B.E.	148	156	304
26.	B.Text. ( Engg. )	4	4	8
27.	B.Text. ( Tech. )	2	8	10
28.	B.Arch.	—	8	8
29.	LL.B.	54	27	81
30.	M.A. ( Fine )	1	1	2
31.	M.Mus.	1	1	2
32.	B.A. ( Fine )	6	14	20
33.	B.Mus.	6	7	13
34.	Diploma in Museology	—	5	5
35.	M.Sc. ( Home )	1	17	18
36.	B.Sc. ( Home )	40	24	64
37.	Diploma in Nursery School Education	—	1	1
38.	M.S.W.	12	16	28
Total :		911	626	1537

- ( viii ) A Seminar on General Education was organised at the General Education Centre by the University from the 10th to the 14th December, 1963. The Seminar was sponsored by the University Grants Commission, New Delhi, 42 teachers were invited to participate in the Seminar from the various departments of the M. S. University and 13 from the Universities of Bombay, S.N.D.T., Gujarat and Sardar Vallabhbhai Vidyapeeth. The Seminar was inaugurated by Dr. J. M. Mehta, Vice-Chancellor, M. S. University of Baroda, Baroda on the 10th December, 1963 under the Chairmanship of Professor Hans Simons, Consultant in General Education, University Grants Commission, New Delhi.
- ( ix ) All India Educational Conference was held on the 25th December, 1963 under the auspices of the M. S. University of Baroda. Dr. Jyotindra M. Mehta, Vice-Chancellor of the University inaugurated the Conference.

- ( x ) Dr. Kartar Singh, Director, R. and D. Organisation, Ministry of Defence, New Delhi visited the University on the 7th January, 1964. He met the various Deans and Heads of Departments and members of the staff interested in Defence Research.
- ( xi ) Mr. George Benett, Senior Lecturer in Commonwealth History at the Institute of Commonwealth Studies, Oxford visited this University under auspices of the British Council on the 23rd January, 1964 and delivered some lectures.
- ( xii ) The University has agreed that on receipt of an amount of Rs. 5 lakhs, the number of seats in Preparatory Arts, Science and Commerce classes will be increased and that the increased seats will be filled substantially from students passing from the High Schools in Baroda on the basis of percentage of marks obtained by them in the S.S.C. Examination. It is acknowledged with thanks that the Baroda Borough Municipality has paid to the University an amount of Rs. 2 lakhs in the first instance on the 31st January, 1964 to enable it to meet some portion of expenditure towards construction of building to accommodate the different laboratories, purchase of equipment, etc. The University is awaiting the receipt of the remaining amount of Rs. 3 lakhs to complete the arrangement.
- ( xiii ) Sir Charles Morris, Chairman, Special Committee for University Secondment of United Kingdom and Lady Morris visited the University on the 20th February, 1964, under the auspices of British Council. He discussed some important problems of Education with Dr. J. M. Mehta, Vice-Chancellor and the Dean, Faculty of Education and Psychology. He visited the Oriental Institute, Shrimati Hansa Mehta Library, Department of Archaeology and Ancient History, Faculties of Fine Arts, and Home Science and Department of Museology. Lady Morris visited the Mental Hygiene and Psychiatric Clinic, Faculty of Social Work, the Home for Crippled Children, Remand Home and Maharani Chimanabai Industrial Home. She also visited Faculties of Home Science, Fine Arts, and the Department of Museology. She addressed the member of the Indian Conference of Social Work and the Local Welfare Agencies at the Faculty of Social Work.
- ( xiv ) Her Excellency Shrimati Vijayalakshmi Pandit, Governor of Maharashtra visited the University on the 22nd February, 1964 and visited the Oriental Institute, Ramayan Department, Department of Archaeology and Ancient History and Faculties of Fine Arts and Home Science.
- ( xv ) Shri K. L. Joshi, Secretary, University Grants Commission, New Delhi visited the University on the 8th March, 1964. He also

attended the Conference of Teacher Educators Organised under the auspices of this University.

- (xvi) Lt. General B. M. Rao, Honorary Consultant to the Ministry of Defence visited the University on the 14th March, 1964 to discuss some research problems in the Department of Biochemistry.
- (xvii) The Fourth Supplementary Convocation for conferring degrees and diplomas was held in the Central Hall, Faculty of Arts on the 29th March, 1964. Dr. Jyotindra M. Mehta, Vice-Chancellor, presided.

The following degrees and diplomas were conferred on that day:

Sr.No.	Degree/Diploma	In Person	In Absentia	Total
1.	Ph.D. ( Science )	1	3	4
2.	Ph.D. ( Education )	—	1	1
3.	M.D.	4	1	5
4.	M.S.	1	1	2
5.	B.A.	21	15	36
6.	B.Sc.	12	18	30
7.	M.Ed. ( By thesis )	1	—	1
8.	B.Com.	30	40	70
9.	Post-Graduate Diploma in Co-operation	—	2	2
10.	M.B.,B.S.	17	10	27
11.	Diploma in Laryngology and Otology	2	2	4
12.	Diploma in Pediatrics	—	2	2
13.	Diploma in Tuberculous Diseases	1	—	1
14.	Diploma in Gynaecology and Obstetrics	1	4	5
15.	M.E.	1	—	1
16.	B.E.	11	32	43
17.	B.Text. ( Eng. )	1	1	2
18.	B.Arch.	1	9	10
19.	LL.B.	14	8	22
20.	M.Sc. ( Home )	—	3	3
21.	B.Sc. ( Home )	4	1	5
22.	M.S.W.	3	3	6
Total :		126	156	282

#### (4) Teaching Staff

(1) The following appointments were made during the year on vacant or new posts:

#### FACULTY OF ARTS

- Reader : Shri A. P. Rana ( Political Science )
- Lecturers : Sarvashri N. M. Pandya ( Economics ), G. S. Purohit ( Hindi ), P. N. Jha ( Hindi ), Dr. D. S. Shukla ( Hindi ), Dr. Goebel Gross ( German ), Shrimati H. K. Chavan ( English ), Kumari S. G. Palkar ( English ) and Shrimati Geeta Somjee ( Political Science ).

#### FACULTY OF SCIENCE

- Professors : Shrimati V. A. Janaki ( Geography ) and Dr. S. S. Merh ( Geology )
- Readers : Dr. K. N. Trivedi ( Chemistry ), Dr. A. R. Mehta ( Botany ), Dr. M. S. Patel ( Statistics ) and Dr. R. M. Naik ( Zoology )
- Lecturers : Shrimati S. S. Mehta ( Biological Science ), Sarvashri N. G. Savant ( Physical Science ), R. P. Bhatt ( Botany ), S. N. Shah ( Mathematics ), Y. C. Patel ( Statistics ), P. M. Ambadkar ( Zoology ), S. J. Desai ( Geology ) and P. J. Desai ( Geology ).

#### FACULTY OF COMMERCE

- Reader : Shri A. G. Patel ( Accounts )
- Lecturer : Kumari M. M. Shah ( Economics )

#### FACULTY OF TECHNOLOGY AND ENGINEERING

- Readers : Shri S. D. Desai ( Geology ), Dr. B. S. Patel ( Chemical Engineering ) and Dr. A. M. Talati ( Chemistry )
- Lecturers : Sarvashri J. N. Patel ( Mechanical ), S. N. Ambegaonkar ( Mechanical ), R. M. Sheth ( Mechanical ), P. N. Patel ( Textile Engg. ), G. T. Malpathak ( Geology ), D. T. Brahmabhatt ( Geology ), C. A. Shah ( Mathematics ), S. R. Agrawal ( Mathematics ), G. V. Shah ( Mathematics ), P. R. Pancholi ( Economics ), K. V. Patel ( Economics ), B. B. Patel ( Physics ) and Shrimati H. Karamchandani ( English ).

#### FACULTY OF HOME SCIENCE

- Lecturers : Shri S. S. Rajagopalan ( Foods and Nutrition ), Kumari Kusum Patel ( Foods and Nutrition ), Kumari Beullah H. Ravoori ( Home Science Education and Extension ) and Kumari Anupama Jaituni ( Home Science Education and Extension ).

#### FACULTY OF LAW

- Professor : Shri H. C. Dholakia ( Law )

(2) The following teachers left the University during the year:

## FACULTY OF ARTS

- Professor : Dr. G. J. Wainwright ( Archaeology ),  
 Reader : Shri R. F. Kothari ( Political Science )  
 Lecturers : Shrimati K. V. Tilak ( English ), Dr. A. S. Nagar ( Hindi ), Dr. C. N. Bhalerao ( Political Science ), Dr. N. R. Sheth ( Sociology ) and Dr. T. N. Sheth ( Sociology ).

## FACULTY OF SCIENCE

- Lecturer : Dr. P. N. Raina ( Biochemistry ).

## FACULTY OF COMMERCE

- Lecturer : Shri R. R. Waghmare ( Banking ).

## FACULTY OF TECHNOLOGY AND ENGINEERING

- Lecturers : Sarvashri C. K. Chitale ( Mechanical ), A. L. Lagvankar ( Civil ), R. M. Maru ( Economics ), K. V. Patel ( Economics ), S. I. Patel ( Electrical ) and V. M. Patel ( Mathematics ).

(3) A Statement showing the number of teaching staff in various faculties and institutions as on the 31st March, 1964 is given below:

Faculty/Institution	Professor	Reader	Lecturer	Tutor, Demonstrator/ Instructor	Honorary, Part-time and others	Total
Arts	7	17	57	7	2	90
Science	9	17	47	57	—	130
Education and Psychology	3	6	15	3	1	28
Commerce	1	6	11	—	7	25
Technology and Engineering	10	26	61	49	1	147
Fine Arts	3	4	17	4	2	30
Home Science	2	3	19	20	—	44
Social Work	1	3	10	—	2	16
Law	1	1	2	—	9	13
Oriental Institute	—	1	4	—	—	5
College of Indian Music, Dance and Dramatics	1	3	11	25	3	43
Baroda Sanskrit Mahavidyalaya	—	—	1	12	—	13
Polytechnic	3	2	16	37	—	58
<b>Total:</b>	<b>41</b>	<b>89</b>	<b>271</b>	<b>214</b>	<b>27</b>	<b>642</b>

## 5. Facilities to the members of the teaching staff for further studies, higher training or advanced research abroad:

(1) The following teachers who were granted facilities for further studies abroad returned to the University during the year:

S.No.	Name and Designation	Qualifications or experience acquired
1.	Shrimati Indira Bhanot, Reader in Statistics	Worked with Professor H. O. Hartely at Iowa State University, Ames, U.S.A.
2.	Dr. A. M. Talati, Lecturer in Chemistry	Post Doctoral Research work in the Chemistry Department of the Chicago University, U.S.A.
3.	Dr. J. M. Lohar, Lecturer in Chemistry	Post Doctoral Research on the Oxydation of Aeromatic Compounds by Electron Transfer.
4.	Dr. A. R. Mehta, Lecturer in Botany	Ph.D. in Botany from the University College of Swansea, U.K.
5.	Dr. M. S. Patel, Lecturer in Statistics	Ph.D. in Statistics from the University of North Carolina, U.S.A.

(2) The following members of the staff were granted facilities during the year for further studies, research, visit, etc. abroad:

S.No.	Name and Designation	Purpose
1.	Shri S. C. Malik, Reader in Anthropology	Higher Studies in Anthropology at Chicago University, U.S.A. under Smith Mundt. Fellowship.
2.	Professor I. S. Gulati, Professor of Economics	Visiting Professor at the University of Hawaii, U.S.A.
3.	Shri K. S. Desai, Reader in Political Science	Visiting Professor at Clinton College and Rockford College, U.S.A. under John Hary Whitney Award and Fullbright Travel Grant Scheme.
4.	Shri A. P. Rana, Reader in Political Science	For Studies and Research at the Graduate Institute of International Studies, Geneva, under Fellowship offered by the Graduate Institute of International Studies, Geneva.
5.	Shri C. K. Sheshadri, Lecturer in English	For Diploma in the teaching of English as a Foreign Language at Edinburg, U.K. under British Council Award.
6.	Shri P. G. Patel, Lecturer in English	Study of English Grammar at the University of Groningen, Holland under Fellowship offered by Groningen University, Netherlands.
7.	Dr. S. G. Kantawala, Lecturer in Sanskrit	Post-Doctoral Research in Sanskrit at Cambridge University, U.K. (Returned within three months due to ill health) under Commonwealth Scholarship offered by the Government of U.K.

S.No.	Name and Designation	Purpose
8.	Dr. U. N. Singh, Professor of Mathematics	Visiting Professor at the University of Illinois, Urbana, U.S.A. under Maintenance grant from the United States Government.
9.	Shri C. B. Patel, Lecturer in Textile Technology	Higher Studies in Textiles at Hudders Field Training College of Technical Teachers at Leeds University, U.K. under Commonwealth Educational Co-operation Programme—Teacher Training Bursaries offered by Government of U.K.
10.	Professor N. S. Bendre, Professor of Painting	To visit Art and Cultural Institutions in Germany, University Arts Departments in U.S.A. and Arts Institutions in Japan under Educational and Cultural Exchange Programme.
11.	Shri S. R. Ramdev, Lecturer in Social Work	Master's Degree in Social Work, Columbia University School of Social Work, U.S.A. under Cleveland International Programme.
12.	Shri S. A. Yaleja, Lecturer in Social Work	For advanced studies leading to Ph.D. at the University of Pennsylvania, School of Social Work, Philadelphia-3 under Fellowship from the School of Social Work, Philadelphia.

#### 6. University Examination Results

14 candidates were declared qualified for the award of the Ph.D. degree of this University in the year 1963-64, as detailed below:

Name of the Candidate	Subject	Title of the thesis
1. Shri Hiralal Punjalal Chokshi	Economics	Growth and Scope of Corporation Taxation in India
2. Shri Umpedbhai Motichand Maniar	English	The Influence of English on Gujarati Poetry.
3. Shri S. L. Bhyrappa	Philosophy	Truth and Beauty—A study in the Co-relation between the Epistemic and the Aesthetic.
4. Shri Madhusudan Madhavlal Pathak	Sanskrit	Similes in the Ramayana.
5. Shri Madhukar Ganesh Karmarkar	Bio-Chemistry	Fat, Protein and Amino Acid composition of Breast Milk in relation to Dietary Intake.
6. Shri Arvind Dattatray Deodhar	Bio-Chemistry	Studies on Human Lactation with particular reference to Dietary and Milk Vitamins.
7. Shri Vinod Mansukhlal Sukkawala	Botany	Medicinal Importance of the Families and Primulaceae.

Name of the Candidate	Subject	Title of the thesis
8. Kumari K. Savithri	Mathematics	Quadratic Forms over the Field of Rational Functions in one Variable over a finite field.
9. Shri Sunderlal Kanchanlal Shah	Physics	Studies in Structure and Properties of Light Nuclei.
10. Shri Vaikunthray Pramodray Bhatt	Physics	Study of some Metal Crystals.
11. Shri N. V. Vallyathan	Zoology	Studies on Certain Adaptations in Avian Pectoralis and the Blood.
12. Kumari A. K. Susheela	Zoology	Studies on the Cellular Organisation and Metabolic Adoption in the Mammalian Diaphragm.
13. Shri Baburao Mangunath Hegdekar	Zoology	A Study on Certain Bio-Chemistry and Histophysiological Aspects.
14. Shri Shaukat Ali Sahib	Education	Educational Organisation in the Colony of Fiji.

The following two statements show the results of (i) March-April-May-June, 1963 and (ii) October-November-December, 1963 Examinations:

Results of the University Examinations March/April and June, 1963

Sr. No.	Examination	No. Registered	No. Absent	Number Passed																	Grand Total	Percentage of Passes
				No. appeared				Men				Women				Total	Pass Class	II Class	I Class	Dist.		
				Total	Men	Women	No. Appeared	I Class	II Class	Pass Class	Total	I Class	II Class	Pass Class	Total							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19				
1	Prep. Arts	703	19	365	319	684	—	7	36	118	161	—	12	86	97	195	356	52.05%				
2	First Year B.A.	401	4	228	169	397	—	1	51	77	129	—	9	54	57	120	249	63.13%				
3	*Second Year B.A.	396	6	240	150	390	—	3	51	82	136	3	17	55	39	114	250	73.45%				
4	B.A. (Final Year)	348	9	210	129	339	—	5	28	15	48	—	2	17	10	29	77	80.21%				
5	M.A.	109	13	61	35	96	—	—	2	3	5	—	—	—	—	—	5	71.43%				
6	Shastri	7	—	7	—	7	—	—	—	—	—	—	—	—	—	—	1	100%				
7	Visharada	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	7	50%				
8	Dip. in Lib. Sc.	14	—	10	4	14	—	—	5	—	5	—	—	1	1	2	4	100%				
8	(a) Dip. in German Lang. (U. G.)	4	—	2	2	4	—	1	1	—	2	—	18	33	21	72	543	83.02%				
9	Prep. Science	660	6	566	88	654	—	169	215	87	471	—	4	11	5	20	96	94.29%				
10	Pre-Medical	103	3	83	20	103	—	23	38	15	76	—	9	32	6	26	101	44.89%				
11	First Year B.Sc.	228	3	184	41	225	—	9	32	34	75	—	—	—	23	23	75	43.60%				
12	*Second Year B.Sc.	176	2	147	27	174	—	—	—	—	52	—	5	8	7	20	84	61.76%				
13	B.Sc. (Final Year)	142	6	114	22	136	4	8	28	24	64	—	—	11	2	13	104	85.95%				
14	M.Sc.	124	3	107	14	121	5	24	42	20	91	—	4	12	11	27	104	97.19%				
15	B.Ed.	107	—	79	28	107	—	9	40	28	77	—	—	—	10	10	33	97.06%				
16	*T.D.	34	—	23	11	34	@1	—	—	—	23	—	—	—	—	—	19	100%				
17	M.Ed.	21	2	14	5	19	—	1	3	10	14	—	—	—	2	5	3	100%				
18	*Post-graduate Dip. in Edu. Admn.	3	—	3	—	3	—	—	—	—	3	—	—	—	—	—	3	100%				

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
19	*Post-graduate Dip. in App. Ling.	4	—	2	2	4	—	—	—	—	2	2	@1	—	—	1	2	4	100%	
20	*Post-graduate Dip. in Guidance and Counselling	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	00.00%	
21	*Under-graduate Dip. in Co-operation	8	1	5	2	7	—	—	—	5	5	—	—	—	2	2	7	100%		
22	Prep. Commerce	639	11	609	19	628	—	27	94	249	370	—	6	2	7	15	385	61.30%		
23	First Year B.Com.	477	10	454	13	467	—	15	74	140	229	—	—	5	2	7	236	50.86%		
24	*Second Year B.Com.	481	30	443	8	451	—	—	—	—	270	270	—	—	8	8	278	61.64%		
25	*Second Year B.Com. (under O.Com. 27)	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
26	B.Com. (Final Year)	416	8	403	5	408	—	12	75	128	215	—	—	—	5	5	220	53.92%		
27	B.Com. (O.Com. 27)	8	2	3	3	6	—	—	—	3	3	—	—	—	3	3	6	100%		
28	M.Com.	33	1	31	1	32	—	1	4	18	23	—	—	—	1	1	24	75%		
29	*P. G. Dip. in Banking	11	1	10	—	10	—	—	—	9	9	—	—	—	—	—	9	90%		
30	*Ist M.B., B.S.	10	1	8	1	9	—	—	—	7	7	—	—	—	1	1	8	88.88%		
31	*IInd M.B., B.S.	40	—	35	5	40	—	—	—	26	26	—	—	—	2	2	28	71.79%		
32	*IIIrd M.B., B.S.	46	—	39	7	46	—	—	—	26	26	—	—	—	7	7	33	71.74%		
33	*M.D. (Br. I)-Medicine	3	1	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%		
34	*M.D. (Br. II)-Pathology	1	—	1	—	1	@1	—	—	—	1	—	—	—	—	—	1	100%		
35	*M.D. (Br. V)-O. and G.	3	—	2	1	3	@1	—	—	—	1	—	—	—	—	—	1	100%		
36	*M.S. (Br. I)-Surgery	6	1	5	—	5	@1	—	—	—	1	—	—	—	—	—	1	20%		
37	*M.S. (Br. III)-Orthopaedics	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%		
38	*Diploma in Ophthalmology	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%		
39	*Diploma in Anaesthesiology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%		
40	*Diploma in Laryngology and Otology	8	1	7	—	7	—	—	—	5	5	—	—	—	—	—	5	71.43%		
41	*Diploma in Pediatrics	5	1	3	1	4	—	—	—	—	—	—	—	—	—	—	—	00.00%		
42	*Dip. in Venereology & Dermatology	2	—	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%		
43	*Diploma in Clinical Pathology	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%		
44	*Dip. in Gynaecology and Obstetrics	10	—	5	5	10	—	—	—	2	2	—	—	—	2	2	4	40%		
45	M.Sc. (Pharmacology)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%		
46	F.Y. Dip. (CME)	421	2	419	—	419	—	22	90	140	252	—	—	—	—	—	252	60.87%		
47	S.Y. Dip. (CME)	271	2	268	1	269	—	29	89	64	182	—	—	—	—	—	182	68.93%		

\* No class is awarded. @ Pass with Distinction only.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
48	Dip. in Civil Engg.	68	—	68	—	68	—	8	30	20	58	—	—	—	—	—	58	86.56%
49	Dip. in Mech. Engg.	110	3	106	1	107	—	11	40	31	82	—	—	—	—	—	83	77.57%
50	*Dip. in Mech. Engg. (under O.TE.155)	24	4	20	—	20	—	—	—	16	16	—	—	—	—	—	16	80%
51	Dip. in Elect. Engg.	92	2	89	1	90	—	7	25	24	56	—	—	—	—	—	57	61.73%
52	*Dip. in Elect. Engg. (under O.TE.162)	35	2	33	—	33	—	—	—	31	31	—	—	—	—	—	31	93.93%
53	Dip. in Text. Chem.	23	—	23	—	23	—	2	11	6	19	—	—	—	—	—	19	82.60%
54	Dip. in Text. Chem. (under O.TE. 184)	37	1	36	—	36	—	7	21	8	36	—	—	—	—	—	36	100%
55	Dip. in Text. Tech.	37	1	36	—	36	—	6	12	14	32	—	—	—	—	—	32	91.42%
56	F.E. (CME TeTt)	344	1	341	2	343	5	29	108	49	191	—	—	—	—	—	192	55.97%
57	S.E. (CME TeTt)	336	5	329	2	331	32	67	132	28	259	—	—	—	—	—	260	78.54%
58	*S.E. (CME) (under O.TE. 7)	82	3	79	—	79	—	—	—	70	70	—	—	—	—	—	70	85.36%
59	T.E. (CME)	458	4	452	2	454	6	35	144	145	330	—	—	—	—	—	332	73.12%
60	T.Text. (Engg.)	12	—	12	—	12	—	3	5	2	10	—	—	—	—	—	10	83.33%
61	T. Text. (Tech.)	14	—	14	—	14	—	—	13	1	14	—	—	—	—	—	14	100%
62	B.E. (Civil)	135	1	133	1	134	3	13	73	14	103	—	—	—	—	—	103	76.29%
63	B.E. (Mech.)	126	8	118	—	118	25	34	37	5	101	—	—	—	—	—	101	80.15%
64	B.E. (Mech.) (under O.TE. 39)	16	—	16	—	16	—	9	4	1	14	—	—	—	—	—	14	87.50%
65	B.E. (Mech.) (under O.TE. 40)	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
66	B.E. (Elect.)	95	3	92	—	92	10	18	46	8	82	—	—	—	—	—	82	86.31%
67	B.E. (Elect.) (under O.TE. 46)	3	—	3	—	3	—	1	2	—	3	—	—	—	—	—	3	100%
68	B.E. (Elect.) (under O.TE. 46A)	3	1	2	—	2	—	—	—	—	—	—	—	—	—	—	—	00.00%
69	B.Text. (Engg.)	12	—	12	—	12	—	1	7	—	8	—	—	—	—	—	8	66.66%
70	B.Text. (Tech.)	10	—	10	—	10	2	1	7	—	10	—	—	—	—	—	10	100%
71	*M.E. (Civil)-Part I	7	2	5	—	5	—	—	—	1	1	—	—	—	—	—	1	20%
72	*M.E. (Civil)-Part II	4	2	2	—	2	—	—	—	1	1	—	—	—	—	—	1	50%
73	M.E. (Civil)-Parts II and III	1	—	1	—	1	—	—	1	—	1	—	—	—	—	—	1	100%
74	M.E. (Civil)-Part III	3	—	3	—	3	—	1	1	—	2	—	—	—	—	—	2	66.66%
75	*M.E. (Mech.)-Part I	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
76	*M.E. (Mech.)-Part II	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%
77	*M.E. (Elect.)-Part I	5	2	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%
78	*M.E. (Elect.)-Part II	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
79	M.E. (Elect.)-Part III	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100%

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
80	IIIrd Year B.Arch.	49	1	42	6	48	—	2	17	4	23	—	—	—	—	—	25	52.08%	
81	B.Arch.	38	—	37	1	38	—	4	15	2	21	—	—	—	—	—	22	57.89%	
82	First LL.B.	310	46	245	19	264	—	10	91	13	114	—	—	—	—	—	125	47.34%	
83	Second LL.B.	124	12	106	6	112	—	10	67	—	77	—	—	—	—	—	81	72.32%	
84	M.A. (Fine)-Painting	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%	
85	M.A. (Fine)-Sculpture	1	—	1	—	1	—	—	—	—	1	—	—	—	—	—	1	100%	
86	B.A. (Fine)-Painting	11	—	7	4	11	—	—	5	2	7	—	—	—	—	—	10	90.90%	
87	B.A. (Fine)-Applied Arts	12	—	12	—	12	—	—	3	7	10	—	—	—	—	—	10	83.33%	
88	Post-Diploma in Fine Arts-Painting	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	1	100%
89	Diploma in Fine Arts-Painting	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%	
90	Diploma in Fine Arts-Applied Arts	6	—	6	—	6	—	—	4	—	4	—	—	—	—	—	4	66.66%	
91	Diploma in Textile Design	2	—	2	—	2	—	—	2	—	2	—	—	—	—	—	2	100%	
92	M.Mus.	2	—	1	1	2	—	—	—	—	—	—	—	—	—	—	2	100%	
93	B.Mus.	15	—	9	6	15	1	4	3	1	9	—	—	—	—	—	13	86.66%	
94	Post-Diploma in Dance	3	—	2	1	3	—	—	2	—	2	—	—	—	—	—	3	100%	
95	Diploma in Music	26	3	14	9	23	—	—	1	2	5	—	—	—	—	—	10	45.45%	
96	Diploma in Dance	12	—	3	9	12	—	—	—	—	2	—	—	—	—	—	10	83.33%	
97	Diploma in Drama	3	—	3	—	3	—	—	1	1	3	—	—	—	—	—	3	100%	
98	*P. G. Diploma in Museology	5	—	4	1	5	—	—	—	—	4	—	—	—	—	—	5	100%	
99	M.Sc. (Home)	19	—	19	19	19	—	—	—	—	—	—	—	—	—	—	18	94.76%	
100	B.Sc. (Home)	64	—	64	64	64	—	—	—	—	—	—	—	—	—	—	64	100%	
101	Diploma in Nursery School Education (Post-graduate)	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	100%	
102	Diploma in Early Childhood Education (Under-graduate)	3	—	—	3	3	—	—	—	—	—	—	—	—	—	—	3	100%	
103	M.S.W.	30	—	21	9	30	—	—	—	87	†12	19	—	—	—	—	28	93.33%	
104	*Ph.D. (Arts)	5	—	5	—	5	—	—	—	—	5	—	—	—	—	—	5	100%	
105	*Ph.D. (Science)	7	—	6	1	7	—	—	—	—	6	—	—	—	—	—	7	100%	
106	*Ph.D. (Edu.)	2	—	1	1	2	—	—	—	—	1	—	—	—	—	—	1	50%	

\* No class is awarded.

† Pass with A Grade

§ Pass with B Grade

‡ Pass with C Grade



## 7. Finance of the University

### (1) Endowments received during the year:

The Syndicate accepted the following new endowments:

#### (a) Shri Kalyanji Becharbhai Fund:

The Syndicate accepted the donation of 80 Ordinary Shares of Messers Tata Iron and Steel Co. Ltd., from Shri Kalyanji Becharbhai of Jiyor Kumbheshwar donated to the existing fund in the name of "Shri Kalyanji Becharbhai Fund" for utilizing the income of the fund in giving help to deserving students of the M. S. University of Baroda, Baroda by way of tuition fees, examination fees, books, educational apparatus, etc. as recommended by the Poor Students' Aid Fund Committee.

#### (b) Dr. S. S. Bhawe Sanskrit Prize Fund:

The Syndicate accepted the donation of Rs. 3,178-64 from the Chairman, Dr. S. S. Bhawe Satkar Samiti, Faculty of Arts, Baroda for awarding every year a cash prize out of the interest accrued on investment of the fund, to a candidate passing B.A. examination with Sanskrit (Major) held by the M. S. University of Baroda, securing highest aggregate marks in Sanskrit with at least 55% of marks in the portions of Veda and Vyakarana; failing which the cash prize shall be awarded to a candidate securing first class at the B.A. Examination with Sanskrit (Major). Provided further that the candidate who is awarded the prize should continue his/her further studies with Sanskrit (Principal) for the M.A. Examination of the M. S. University of Baroda.

### (2) Capital Accounts:

Receipts and Payments for the year ended 31st March, 1964 (i.e. from the 1st April, 1963 to 31st March, 1964)

(Subject to Audit)

#### I—University General Fund

Receipts	Rs. nP.	Payments	Rs. nP.
Interest	38,820-00	Water Supply Scheme in the University Campus	128-83
Grant from the State Government:			
(a) Construction of University Office Building	75,133-00	Providing earthing conductors in the New Building of the University	779-05
Sale proceeds of the Land	8,262-85		

#### Receipts (Contd.)

Grant from the State Government towards Three Years Degree Courses in Arts, Science and Commerce

1,30,600-00

Grant from the Ford Foundation towards the Buildings of the Departments of Child Development and Foods and Nutrition in the Faculty of Home Science

2,51,617-50

Advance rent from the Ford Foundation for Professors and Servants quarters in Chameli Bag

26,000-00

Donation from the Baroda Borough Municipality, Baroda towards the construction of Building and purchase of Equipment for increased seats in Preparatory Classes

2,00,000-00

Loan from the State Government towards the construction of Administrative Staff Quarters at 4½% interest

1,18,000-00

Carried over  
₹ 4

8,48,433-35

#### Payments (Contd.)

Additions and alterations in the Old University Office Building (Residency Bungalow)

28,006-36

Providing further protection wall in Nala on the West of Reader's quarters in Pratap Gunj

17,358-49

University Office Building (New)

565-70

Providing Electric Fittings in the Building occupied by the Faculty of Law for lighting purposes

4,744-00

Realignment of construction of brick boundary wall on the east side of the Faculty of Technology and Engineering and providing compound wall with angle iron and barbed wire fencing

11,555-90

Providing Second Floor on the Third Hall of Residence for women students

1,088-35

Construction of Administrative Staff Quarters:

(a) A Block	36,298-01
(b) B Block	38,890-57
(c) C Block	62,404-18

Providing Air Condition cabinet for TAIRO at the Faculty of Technology and Engineering

2,900-51



## II—Ayurvedic Research Fund ( Sheth U. P. Ayurvedic Research Unit )

<i>Receipts</i>	<i>Rs. nP.</i>	<i>Payments</i>	<i>Rs. nP.</i>
Interest	37,343-62	Amount transferred to meet the excess recurring expenditure over and above the State Government grant and Income of the out patient ward of Sheth U.P.A.R. Unit	32,957-17
Opening Balance as at 1st April, 1963	11,26,580-54		
		Closing Balance as at 31st March, 1964	11,30,966-99
<b>Total</b>	<u>11,63,924-16</u>	<b>Total</b>	<u>11,63,924-16</u>

## III—Post-Graduate Instruction and Research Fund

<i>Receipts</i>	<i>Rs. nP.</i>	<i>Payments</i>	<i>Rs. nP.</i>
Interest	1,38,702-20	Amount transferred to Revenue Accounts towards the expenditure Research Schemes	79,921-72
Opening Balance as at 31st April, 1963	43,88,708-73		
		Closing Balance as at 31st March, 1964	44,47,489-21
<b>Total</b>	<u>45,27,410-93</u>	<b>Total</b>	<u>45,27,410-93</u>

### (3) Revenue Accounts:

#### Receipts and Expenditure for the year ended 31st March, 1964 ( i.e. from the 1st April, 1963 to the 31st March, 1964 )

( Subject to Audit )

<i>Sr.No.</i>	<i>Receipts</i>	<i>Rs. nP.</i>	<i>Sr.No.</i>	<i>Disbursements</i>	<i>Rs. nP.</i>
I	Tuition Fees and other Income from		I	University General Administration	3,10,001-85
(A)	Faculties		II	Examination Charges	4,04,150-10
(a)	Faculty of Arts	18,29,586-86	III	Deadstock and Repairs	6,204-52
(b)	Faculty of Science	2,98,556-00	IV	Publications	11,636-69
(c)	Faculty of Education and Psychology	3,55,208-01	V	Information and Publicity	8,117-12
(d)	Faculty of Commerce	1,17,448-80	VI	Remuneration to Lecturers	—
(e)	Faculty of Technology and Engineering	2,74,380-75	VII	Travelling Allowance	35,379-51
(f)	Faculty of Law	4,80,661-08	VIII	Printing and Stationery	38,469-21
(g)	Faculty of Fine Arts	80,031-50	IX	Maintenance of Buildings and Roads and Temporary Establishment for Capital Works	70,625-53
(h)	Faculty of Home Science	36,490-97	X	Maintenance of Gardens	33,852-41
(i)	Faculty of Social Work	1,33,702-57	XI	Municipal Taxes and Law Charges	12,185-29
(B)	Institutions	20,946-75	XII	University Contribution to Provident Fund	14,170-96
(1)	College of Indian Music, Dance and Dramatics	30,640-50	XIII	Miscellaneous	1,38,911-01
(2)	Preparatory Classes Unit	1,511-93	XIV	Research Staff, Contingencies, Equipment, etc.	79,921-72
(3)	Sanskrit Mahavidyalaya	8-00	XV	Scheme of Teaching Hindi to University Employees	3,048-29
II	Examination Fees	5,86,573-23	XVI	Health Centre	33,504-21
III	Other Fees	1,55,131-65	XVII	University Guest House	8,386-33
IV	Income from Publications	41,002-73			
V-A	Grant from the State Government	18,86,972-89			

Sr.No.	Receipts	Rs. nP.	Sr.No.	Disbursements	Rs. nP.
V-B	Grant from the University Grants Commission and the State Government towards the increase in salaries of the teaching staff due to grade revision	43,159-76	XVIII	50% Expenditure of the University Grants Commission Unit	7,254-02
V-C	100% Grant from the University Grants Commission for revision of salary scales of University Teachers in Technology and Engineering subjects as per A.I.C.T.E. scales upto 5 years	2,20,000-00	XIX	University Library	2,17,404-63
VI	Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust	3,00,000-00	XX	Physical Education Department	1,13,211-66
VII	Interest on Cash Balance	10,667-44	XXI	Faculties and Institutions	43,66,583-09
VIII	Income from Endowments	81,005-52	(A)	Faculties	
IX	Income from Halls of Residence for Students	3,80,262-00	(a)	Faculty of Arts	4,70,737-34
X	Income from use and occupations of University quarters and Bungalows including Furniture Rent	1,00,224-22	(d)	Faculty of Science	9,45,550-93
XI	Income from University Guest House	3,037-00	(c)	Faculty of Education and Psychology	3,80,962-29
XII	Miscellaneous Income	99,605-31	(d)	Faculty of Commerce and Engineering	1,76,263-07
XIII	Income from M. S. University of Baroda Press (Sadhana Press)	2,43,940-77	(e)	Faculty of Technology	11,52,349-05
XIV	Income from M. S. University Stationery Unit	1,28,107-81	(f)	Faculty of Law	65,841-49
XV	Income from University Health Centre	2,021-00	(g)	Faculty of Fine Arts	2,56,023-71
XVI	Sheth U. P. Ayurvedic Research Unit	96,342-27	(h)	Faculty of Home Science	3,29,559-57
			(i)	Faculty of Social Work	1,78,723-33
			(B)	Institutions	
			(1)	Oriental Institute	1,00,230-30
			(2)	College of Indian Music, Dance and Dramatics	2,07,382-83
			(3)	Preparatory Classes Unit	46,470-11
			(4)	Sanskrit Mahavidyalaya	56,489-07
			XXII	M. S. University of Baroda Press (Sadhana Press)	2,48,103-24
			XXIII	M. S. University Stationery Unit	1,23,297-82
			XXIV	M. S. University Publication Sales Unit	10,052-67
			XXV	Halls of Residence for Students	4,48,635-19
			XXVI	Gratuity Fund Contribution	1,36,284-45
			XXVII	Sheth U. P. Ayurvedic Research Unit	66,342-27

Sr.No.	Receipts	Rs. nP.	Sr.No.	Disbursements	Rs. nP.
XVII	Development Schemes which have completed 5 years and for which additional grant is to be paid by the State Government	6,15,956-17	XXVIII	Development Schemes which have completed 5 years	9,52,050-36
	Total Receipts	68,23,596-63			
	Less Advances repaid to the University out of Grants received from the State Government	2,53,312-54			
	Total:	65,70,284-09			
	Excess of Disbursement over Receipts i.e. Deficit	13,27,500-06			
(a)	Deficit on the normal recurring account	7,68,093-33			
(b)	Deficit on the Schemes which have completed Five Years for which State Government has agreed to bear 100% Expenditure				
(a)	For Expansion Schemes in Engineering and Technology (Degree Course)	1,12,563-74			
(b)	For Expansion Scheme in Engineering Diploma Courses (Polytechnic)	4,07,193-90			
(c)	For 3 Professors and one Reader in the Faculty of Science	39,649-09			
	Total:	13,27,500-06			
	Grand Total:	78,97,784-15			
					Grand Total: 78,97,784-15

## (4) Grants:

The University received the grants on the development schemes from the University Grants Commission and the Government of Gujarat, and on various research schemes, studies and projects from the Planning Commission, Union Ministries, State Government Departments, Council of Scientific and Industrial Research and other bodies as under:—

	Amount	
	Rs.	nP.
1. University Grants Commission	11,09,970	23
2. Government of Gujarat (matching grants)	2,40,668	43
3. Planning Commission, Government of India	9,119	84
4. Ministry of Education, Government of India	1,11,268	46
5. Ministry of Education (Science Department) Government of India	33,864	17
6. Community Projects Administration, Government of India	1,09,758	16
7. Government of Gujarat, Departments of Health and Industries and Education and Labour	21,527	32
8. Government of Gujarat Agriculture and Rural Development Department	52,463	59
9. Council of Scientific and Industrial Research	44,196	11
10. Alembic Chemical Works Co. Ltd.	3,000	00
11. Sarabhai Chemicals	10,000	00
12. UNESCO	48	00
13. Ford Foundation Programme of Post-graduate Training and Research in Home Science	1,18,687	50
14. Muscular Dystrophy Associations of America, INC	23,713	18
15. Disbursing Office, American Embassy, New Delhi (U.S. Department of Agriculture) P.L. 480 Schemes	1,36,772	00
<b>Total</b>	<b>20,25,056</b>	<b>99</b>

## 8. Construction Division

## (1) Personnel:

Shri B. B. Nanavaty, B.E. (Civil), A.M.I.E. (India), M.R.S.H. (London), continued to be the University Engineer during the year. He was assisted by a staff of one Assistant Engineer (Maintenance), two Assistant Engineers (Construction), 43 Class III and 53 Class IV Servants.

## (2) Original works completed:

The following original works were completed during the year under report:

Description of the work	Expenditure on the work or building during the year		Total expenditure on the building or work up-to the 31st March, 1964
	Rs.	nP.	
1	2		3
<b>I. University General Fund:</b>			
(i) Providing earthing conductors in the new building of the University			
(ii) Providing further protection wall in Nala on West of Readers' Quarters in Pratapganj	779-05		4,357-92
(iii) Providing cement concrete approach roads in the compound of the Faculty of Fine Arts	17,358-49		24,006-49
(iv) Providing electric fittings in the Faculty of Law	1,278-72		1,278-72
(v) Removing and re-erecting the Cycle Stands in the Faculty of Social Work	4,744-00		4,744-00
(vi) Extending the present Director's Quarters in the S.E.O. Training Centre at Samiala	2,926-50		2,926-50
(vii) Re-alignment of construction of brick boundary wall on the East side of the Faculty of Technology and Engineering and providing compound wall with angle iron and barbed wire fencing on the coping of the wall	8,285-10		8,285-10
(viii) Proposed road from Pratapganj to General Education Centre Building	11,555-90		11,555-90
(ix) Constructing a wall on the Eastern side of the Hall of Residence for Women Students	1,474-80		1,474-80
(x) Constructing a wall along Bhukhi Nala near Hobby Workshop	12,863-95		12,863-95
(xi) Additions and alterations in the Old Office Building to convert it into Residential Quarters	6,633-53		6,633-53
(xii) Providing air-conditioned cabinet for Tairo in the Faculty of Tech. and Engineering	28,006-36		28,047-96
	2,900-51		2,900-51

Description of the work	Expenditure on the work or building during the year		Total expenditure on the building or work up-to the 31st March, 1964	
	Rs.	nP.	Rs.	nP.
1	2		3	
(xiii) Construction of Rifle Shooting range in the University	4,115	31	4,118	37
(xiv) Additions and alterations in the Animal House Fish Pond Frogary of Zoology Department	5,760	10	5,760	10
(xvii) Extension to the South of University Press Building	12,903	48	28,297	18
(xviii) Extension of First Floor over University Press Building	13,565	68	13,565	68
(xix) Proposed Shed for a three-wheeler Rikshaw in the University Press Building	1,846	69	1,846	69

## II. Works of Grants:

( i ) Lecturers' Quarters—12 Nos. ( Adhyapak Kutirs I, J and K Blocks )	2,32,865	20	2,32,865	20
( ii ) Readers' Quarters—8 Nos. ( Vikrambag H and I Blocks )	2,36,918	61	2,36,918	61
( iii ) Professors' Quarters—4 Nos. ( Vikrambag " B " Block )	1,59,404	74	1,59,404	74

## III. Works of Depreciation Grants:

( i ) Renovating the W.C. Block on first floor and ground floor of Square Blocks, Faculty of Science	1,035	77	1,035	77
( ii ) Renovating W.C. Block of the Zoology Department, Faculty of Science				
( iii ) Replacing gas pipe of Gas Plant of the Faculty of Science	4,246	98	4,246	98

### (3) Works in Progress:

The following works were in progress during the year under report:

#### I. University General Fund:

( i ) Water supply scheme in the University Campus	128	83	2,37,999	81
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Description of the work	Expenditure on the work or building during the year		Total expenditure on the building or work up-to the 31st March, 1964	
	Rs.	nP.	Rs.	nP.
1	2		3	
( ii ) Removing the asbestos corrugated sheet roof and fixing G.C.I. sheet roof in Auditorium, Faculty of Technology and Engineering	7,222	39	7,222	39
( iii ) Constructing a Cycle Shed for the Union Pavilion for 150 Cycles	10,918	95	10,918	95
( iv ) Construction of Administrative Staff Quarters	1,37,592	76	1,37,592	76
( v ) Provision for adjustment for the Electric Bills	40	73	40	73

## II. Works of Grants:

( i ) Building for the Geology Department, Faculty of Science	1,17,777	27	1,17,777	27
( ii ) Extension of the Physics Laboratory, Faculty of Science	29,428	93	29,428	93
( iii ) Extension to the South Wing of Shrimati Hansa Mehta Hall	74,129	35	74,129	35
( iv ) Building for the Botany Department	67,097	63	67,097	63
( v ) Construction of 4 Professors' Quarters ( Vikrambag " C " Block )	34,668	97	34,668	97
( vi ) Construction of 8 Readers' Quarters ( Vikrambag " J " and " K " Blocks )	50,974	91	50,974	91
( vii ) Construction of 12 Lecturers' Quarters ( Adhyapak Kutirs L, M and N Blocks )	6,518	72	6,518	72
( viii ) General Education Centre Building ( Ford Foundation grant )	2,00,945	02	13,96,176	85
( ix ) Additional Building for the Faculty of Home Science ( Post-graduate Department of Child Development and Food and Nutrition )	16,200	17	16,200	17

Description of the work	Expenditure on the work or building during the year		Total expenditure on the building or work up-to the 31st March, 1964	
	Rs.	nP.	Rs.	nP.
1	2		3	

### III. Works of Depreciation Grants:

( i ) Replacing the wooden floor and stair of Verandah of the 17th Gujarat Air Squadron N.C.C. Building in the Compound of University Office	4,873-98	4,873-98
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Some additional expenditure was incurred in the following works completed last year:

( i ) University Office Building	565-70	6,79,698-90
( ii ) Addition and alteration for Technology Section (including compensation for land etc.)	2,905-46	9,81,506-02

The total expenditure on capital works during the year under report was Rs. 15,33,459-30.

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

The works of ordinary and special repairs were done throughout the year as per requirements. The total expenditure on repair works during the year under report was Rs. 73,925-92 and Rs. 1,33,084-00 for ordinary and special repairs respectively. The entire estate of the University and all the gardens except the Botanical Gardens in Baroda College area, were looked after and maintained by the Construction Division. The expenditure on immediate petty repair works incurred was Rs. 3,628-41.

## CHAPTER II—OFFICERS OF THE UNIVERSITY

### 1. Officers

#### (1) The Chancellor:

His Highness Maharaja Fatehsinhrao Gaekwad, Maharaja of Baroda is the Chancellor of the University.

#### (2) The Vice-Chancellor:

Dr. Jyotindra M. Mehta, M.A. (Oxon), Ph.D. (London) Bar-at-Law continued as Honorary Vice-Chancellor under Statute 115 during the year. He attended various meetings in India, gave talks, delivered lectures and also presided over many social functions, some of which are given below:

- ( i ) Attended a meeting of the Standing Committee of the Inter-University Board of India at the Rector's Office, Jadavpur University, Calcutta-32, on the 3rd May, 1963;
- ( ii ) Attended a meeting of the 30th Session of the Central Advisory Board of Education at Pachmarhi on the 6th and the 7th May, 1963;
- ( iii ) Inaugurated an exhibition of the famous school of art and architecture which has influenced modern building all over the world entitled "German Bauhaus" on the 28th September, 1963 at the Central Hall, Baroda College;
- ( iv ) Attended a meeting of the Court of the Indian Institute of Science, Bangalore, on the 3rd September, 1963;
- ( v ) Attended a meeting of the Standing Committee of the Inter-University Board in New Delhi on the 13th September, 1963;
- ( vi ) Attended a joint meeting of the Committee to examine the curriculum and syllabi for the Post-graduate Courses in Rural Sociology and Community Development and the Committee on Economics and Co-operation in the office of the Inter-University Board on the 13th November, 1963;
- ( vii ) Attended the State Education Ministers and Vice-Chancellors' Conference in New Delhi on the 10th, 11th and 12th November, 1963;
- ( viii ) Attended the second meeting of the Rural Higher Education Committee in the office of the University Grants Commission on the 7th December, 1963;
- ( ix ) Attended a meeting of the Standing Committee of the Inter-University Board of India in Banaras on the 28th December, 1963;

- ( x ) Attended the 39th Annual Meeting of the Inter-University Board of India in Banaras on the 29th, 30th and 31st December, 1963;
- ( xi ) Visited U.S.A. from the 9th January to the 18th February, 1964 on an invitation from the Ford Foundation to visit important Universities and particularly to study the General Education Programme in some American Universities and Land Grant colleges and problems of Rural Higher Education.

(3) *The Pro-Vice-Chancellor:*

Dr. C. S. Patel, B.A. ( Bom. ), M.Sc. ( Bom. ), Ph.D. ( Leeds ) continued to work as the Pro-Vice-Chancellor under Statute 120. He attended the following meetings:

- ( i ) A Sub-Committee Meeting of the Gujarat State Industrial Research Committee for reorganisation of Industrial Research Laboratory, Baroda, at Ahmedabad on the 8th November, 1963;
- ( ii ) 9th Quinquennial Conference of the Inter-University Board, at Banaras Hindu University, Varanasi, on the 29th, 30th and 31st December, 1963;
- ( iii ) 4th Meeting of the main Committee of Gujarat State Industrial Research Committee at Ahmedabad on the 10th March, 1964.

(4) *Deans of Faculties:*

The following persons worked as Deans of the respective faculties:

<i>Faculty</i>	<i>Dean</i>
Arts	Professor I. S. Gulati ( Upto 8th September, 1963 ) Professor V. Y. Katak ( from 9th September, 1963 )
Science	Professor S. M. Sethna
Education and Psychology	Professor S. N. Mukerji
Commerce	Professor B. G. Shah
Medicine	Dr. J. D. Pathak
Technology and Engineering	Professor P. J. Madan
Law	Professor H. C. Dholakia
Fine Arts	Professor N. S. Bendre
Home Science	Professor ( Shrimati ) Amita Verma
Social Work	Professor G. G. Dadlani

(5) *The Registrar:*

Shri B. K. Zutshi continued to work as the Registrar.

(6) *The Librarian:*

Dr. C. P. Shukla continued to work as Librarian.

(7) *Other Officers:*

<i>Name</i>	<i>Designation</i>
( i ) Professor B. J. Sandesara	Director, Oriental Institute
( ii ) Professor R. C. Mehta	Principal, College of Indian Music, Dance and Dramatics
( iii ) Shri H. C. Mehta	Principal, Baroda Sanskrit Mahavidyalaya
( iv ) Shri K. S. Yajnik	Head, Preparatory Unit and Co-ordinator, General Education Department
( v ) Professor C. H. Khadilkar	Principal, Polytechnic
( vi ) Shri A. J. Desai	Principal, University Experimental School.

## CHAPTER III—THE SYNDICATE AND THE SENATE

### 1. The Syndicate

The Syndicate consisted of 15 members, Shri B. B. Joshi, Professor N. M. Bhatt and Professor S. N. Mukerji ceased to be the members on the 31st October, 1963. The following persons continued to be members of the Syndicate:

Dr. Jyotindra M. Mehta, Vice-Chancellor; Dr. C. S. Patel, Pro-Vice-Chancellor; Shri D. L. Sharma, Director of Education (Upto 16-3-1964); Dr. (Shrimati) Hansa Mehta; Dr. B. B. Yodh; Shri B. B. Joshi (Upto 31-10-1963); Shri J. S. Parikh; Shri D. M. Parikh; Shrimati Ansuya I. Amin; Shri N. D. Chokshi; Professor N. M. Bhatt (Upto 31-10-1963); Professor S. N. Mukerji (Upto 31-10-1963); Professor B. G. Shah; Professor P. J. Madan; Dr. T. V. Patel; Shri C. C. Mehta (from 1-11-1963); Professor S. M. Sethna (from 1-11-1963); Professor B. J. Sandesara (from 1-11-1963); and Shri K. G. Badlani, Director of Education (from 17-3-1964).

During the year the Syndicate held ten meetings in which they considered and passed resolutions on 885 items. The following statement shows the attendance of the members at the Ordinary and Special meetings of the Syndicate during the year:

Name	No of meetings held	Class of meetings		Present	Absent	Remarks
		O-Ordinary	S-Special			
Dr. Jyotindra M. Mehta Vice-Chancellor	10	O.4	O.4	O.4	—	
		S.6	S.5	S.5	S.1	
Dr. C. S. Patel Pro-Vice-Chancellor	10	O.4	O.4	O.4	—	
		S.6	S.5	S.5	S.1	
Director of Education or his nominee	10	O.4	O.2	O.2	O.2	
		S.6	S.5	S.5	S.1	
Dr. (Shrimati) Hansa Mehta	10	O.4	—	—	O.4	
		S.6	S.2	S.2	S.4	
Dr. B. B. Yodh	10	O.4	O.2	O.2	O.2	
		S.6	S.4	S.4	S.2	
Shri B. B. Joshi	5	O.2	O.2	O.2	—	Ceased to be a member from 31-10-1963
		S.3	S.2	S.2	S.1	
Shri J. S. Parikh	10	O.4	O.3	O.3	O.1	
		S.6	S.6	S.6	—	
Shri D. M. Parikh	10	O.4	O.4	O.4	—	
		S.6	S.6	S.6	—	

Name	No. of meetings held	Class of meetings		Present	Absent	Remarks
		O-Ordinary	S-Special			
Smt. Ansuya I. Amin	10	O.4	O.4	O.2	O.2	
		S.6	S.6	S.4	S.2	
Shri N. D. Chokshi	10	O.4	O.4	O.3	O.1	
		S.6	S.6	S.5	S.1	
Professor N. M. Bhatt	5	O.2	O.2	O.2	—	Ceased to be a member from 31-10-1963
		S.3	S.3	S.2	S.1	
Professor S. N. Mukerjee	5	O.2	O.2	O.2	—	Ceased to be a member from 31-10-1963
		S.3	S.3	S.3	—	
Professor B. G. Shah	10	O.4	O.4	O.4	—	
		S.6	S.6	S.6	—	
Professor P. J. Madan	10	O.4	O.4	O.4	—	
		S.6	S.6	S.6	—	
Dr. T. V. Patel	10	O.4	O.4	O.4	—	
		S.6	S.6	S.6	—	
Shri C. C. Mehta	5	O.2	O.2	O.2	—	Became member from 1-11-1963
		S.3	S.3	S.3	—	
Professor S. M. Sethna	5	O.2	O.2	O.2	—	Became member from 1-11-1963
		S.3	S.3	S.3	—	
Professor B. J. Sandesara	5	O.2	O.2	O.2	—	Became member from 1-11-1963
		S.3	S.3	S.2	S.1	

### 2. The Senate

The Senate consisted of 91 members in the beginning, and on Shri N. J. Shah becoming a member on his being elected by the teachers of the Law Faculty, the number became 92. The changes in the membership were as under:

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

Hon. Chief Justice Shri K. T. Desai; Shri S. K. Katrak; Shri M. M. Patel; Shri D. L. Sharma; Dr. C. B. Patel; Shri A. P. Mehta and Professor I. S. Gulati.

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

Hon. Chief Justice Shri J. M. Shelat; Shri T. A. Desai; Dr. C. C. Shah; Justice Shri N. M. Miyabhoy; Shri N. J. Shah; Shrimati Renuka S. Mukerji; Shri S. J. Coelho; Shri S. H. Mehta; Shri K. G. Badlani and Professor V. Y. Kantak.

The Senate met twice during the year on the 13th October, 1963 and the 29th March, 1964. 73 members attended the meeting held on the 13th October, 1963 and 61 members on the 29th March, 1964.

**First Meeting (13th October, 1963)**

The following business was transacted:

(i) The following members were elected to the Syndicate under section 23 (2) (v) of the Act:

Dr. (Shrimati) Hansa Mehta; Shri N. D. Chokshi; Shri J. S. Parikh; Shri Chandrakant C. Mehta; Shrimati Ansuya I. Amin; Shri D. M. Parikh and Dr. B. B. Yodh.

(ii) The following Deans were elected to the Syndicate under section 23 (2) (vi) of the Act:

Professor P. J. Madan and Professor B. G. Shah.

(iii) The following fellows were assigned to the Faculties mentioned against their names:

S.No.	Name	Ex-officio/elected/ nominated	Faculty
1.	Justice Shri J. M. Shelat	Ex-officio	Arts; Law
2.	Shri T. A. Desai	Ex-officio	Technology and Engineering
3.	Shri S. J. Coelho	Ex-officio	Arts
4.	Shri N. J. Shah	Elected	Law
5.	Shrimati Renuka S. Mukerji	Elected	Home Science
6.	Dr. C. C. Shah	Nominated	Science
7.	Justice Shri N. M. Miyabhoy	Nominated	Arts; Law

(iv) Renewal of lapsed grants amounting to Rs. 3,203 in the revenue budget and Rs. 37,820 in the capital budget and supplementary grants amounting to Rs. 1,89,097 in the revenue budget and Rs. 54,050 in the capital budget were sanctioned.

(v) Statute 91 was amended by substituting the following figures and words for the existing figure and words 'I. Home Science, 3 to 7 members' under the heading 'X—Faculty of Home Science':

1. Child Development	3 to 5 members
2. Foods and Nutrition	3 to 5 members
3. Home Science Education and Extension	3 to 5 members
4. Clothing and Textile and Home Management	3 to 5 members

(vi) Statute 199 was amended by

(A) deleting the figure and words '2. Master of Art Criticism M.A. (Art Criticism)' and '3. Master of Art Education M.A. (Art Education)' under the heading 'In the Faculty of Fine Arts' and renumbering the remaining heading so that '7. Diploma in Museology (Dip. Museo.)' will read as '5. Diploma in Museology (Dip. Museo.)';

(B) addition of figure and words '3. Diploma in Taxation Laws (D.T.P.)' and '4. Diploma in Labour Laws (D.T.P.)' after the figure and words, '2. Bachelor of Laws (LL.B.)', under the heading 'In the Faculty of Law'.

(vii) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 4 of the Handbook Part II—1961 and the Ordinances relating to the examinations, syllabi, Standard of passing and exemptions etc. passed by the Syndicate for the faculties of (a) Education and Psychology, (b) Commerce and (c) Technology and Engineering (Hand Book Part III—1960) were considered and passed.

(viii) (a) The Fourteenth Annual Report and the Fourteenth Annual Accounts of the University for the year 1962-63 were passed.

(b) The excess expenditure over the revised estimates for the year 1962-63 was also sanctioned.

(ix) A proposal to institute the following new posts was considered and passed:

#### I Faculty of Arts

1. Lecturer in English
2. Lecturer in Hindi (Temporary for one year)

#### II Faculty of Science

1. Lecturer in Mathematics (Temporary for one year)
2. Lecturer in Physics (Temporary for one year)
3. Lecturer in Geography

(b) The designation of the instituted post of Reader in Business Management was amended as Professor or Reader in Business Administration.

(x) The Senate unanimously resolved that

- (a) degree of Doctor of Letters (D.Litt.) Honoris Causa be conferred on Dr. S. Radhakrishnan;
- (b) degree of Doctor of Laws (LL.D.) Honoris Causa be conferred on Shri V. T. Krishnamachari, and
- (c) degree of Doctor of Laws (LL.D.) Honoris Causa be conferred on Shri K. M. Munshi

in view of their eminent services to the country and their great attainments.

#### Second Meeting (29th March, 1964)

The following business was transacted:

(i) Dr. C. S. Patel was elected as Vice-Chancellor under Section 10 (1) of the Act from the 30th April, 1964

( ii ) The following members were elected to the respective Board of Visitors as mentioned against their respective names:

S.No.	Name	Board of Visitors for the
1.	Shri V. H. Bhanot	( i ) Faculty of Arts ( ii ) Preparatory Unit
2.	Professor T. S. Mahabale	Faculty of Science
3.	Shri M. T. Vyas	Faculty of Education and Psychology
4.	Shri N. B. Vaze	Faculty of Commerce
5.	Shri C. G. Bhatt	Faculty of Law
6.	Professor R. C. Mehta	Faculty of Fine Arts
7.	Dr. C. P. Shukla	Oriental Institute
8.	Professor N. S. Bendre	College of Indian Music, Dance and Dramatics

( iii ) The following fellows were assigned to the Faculties mentioned against their names:

S.No.	Name	Ex-officio/elected/nominated	Faculty
1.	Shri Ishwarbhai J. Patel	Ex-officio	Education and Psychology
2.	Professor V. Y. Kantak	Ex-officio	Arts
3.	Shri S. H. Mehta	Ex-officio	Technology and Engineering

( iv ) The questions put by Shri B. N. Pancholy were replied. Supplementary questions were also answered.

( v ) The Annual Financial Statement comprising of the revised estimates for the year 1963-64 and the estimates for the year 1964-65 was considered and passed.

( vi ) Statute 199 was amended by addition of figure and words " 2. Doctor of Laws ( LL.D. ) " after the figure and words " 1. Doctor of Letters " and making the consequential changes so that, S.No. " 6. Master of Surgery ( M.S. ) " will read as " 7. Master of Surgery ( M.S. ) " under the heading " Higher Post-graduate degree in various Faculties. "

( vii ) Statute 209A was added:

S. 209A: The employees of the University, both teaching and non-teaching, except those whose pension is guaranteed by the Government of Gujarat be paid gratuity under the following rules:

1. No gratuity shall be payable to an employee dismissed from service for misconduct.



The Senate Procession

2. Gratuity shall be paid on the death, retirement, resignation or termination of service, at the rate of 1/2 month's basic salary (excluding all allowances) for each completed year of service on completion of 7 years' service; the gratuity shall be raised to one month's basic salary (excluding all allowances) for each completed year of service, on completion of 15 years' service. The total amount of the gratuity shall be a maximum of 15 months' salary or Rs. 15,000 whichever is less. Notwithstanding anything contained above in the event of the death of an employee, during the course of his employment, gratuity shall be paid at the rate of one month's basic salary for each completed year of service subject to a maximum of 15 months' salary or Rs. 15,000/- whichever is less.
  3. Salary for the purpose of gratuity shall mean the average basic salary (excluding all allowances) drawn by the employee during the twelve months' period of active service immediately preceding death, retirement, resignation or termination of service.
  4. The University shall establish a fund known as Gratuity Fund for the purpose by providing 5 per cent on basic salary paid to its employees except those whose pension is guaranteed by the Government of Gujarat during every accounting year which shall be invested and regulated as may be approved by the Syndicate.
- (viii) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 6 of the Handbook Part II—1961 were considered and passed.
- (ix) (a) A proposal to institute the following new posts was considered and passed:

#### I Faculty of Arts

1. Lecturer in Hindi
2. Lecturer in English
3. Lecturer in English
4. Reader in Linguistics
5. Lecturer in Linguistics
6. Lecturer in Linguistics
7. Reader in Economics

#### II Faculty of Science

1. Lecturer in Physics
2. Lecturer in Bio-Chemistry
3. Professor in Micro-biology

4. Lecturer in Mathematics
5. Lecturer in Statistics
6. Lecturer in Applied Geology

### III Faculty of Education and Psychology

1. Professor of Educational Psychology
2. Reader in Educational Psychology
3. Reader in Educational Psychology

### IV Faculty of Commerce

1. Reader in Economics
2. Lecturer in Business Administration
3. Lecturer in Business Administration ( Case Analysis )

### V Faculty of Technology and Engineering

1. Reader in Civil Engineering
2. Lecturer in Civil Engineering
3. Reader in Applied Mechanics
4. Lecturer in Applied Mechanics
5. Reader in Mechanical Engineering
6. Lecturer in Mechanical Engineering
7. Reader in Electrical Engineering
8. Lecturer in Electrical Engineering

### VI Faculty of Home Science

1. Reader in Bio-metrics and Psycho-metrics
2. Lecturer in Chemistry
3. Lecturer in Biology
4. Lecturer in Physics
5. Lecturer in Mathematics
6. Lecturer in Foods and Nutrition.

(b) The present designation of one post of 'Lecturer in English' in the Faculty of Arts was amended as 'Reader in English'.

## CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

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

The Council of Post-graduate Studies and Research met twice during the year on the 31st July and 19th November, 1963 and considered in all 50 items referred to it. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate.

(1) The Council recorded the progress reports of the previously approved research schemes and recommended their continuation where necessary. It also considered and recommended some new research schemes for implementation during the year 1964-65. The names of the schemes are given in Chapter VI—Research Work in University.

(2) The Council recorded the 24th half-yearly progress reports of the Critical Editions of Old Gujarati Texts (Prachin Gurjar Granthamala).

(3) The Council recommended that (i) Central Salt and Marine Chemicals Research Institute, Bhavnagar, (ii) Zoological Survey of India, Calcutta (Government of India), (iii) Indian Veterinary Research Institute, Izatnagar be recognised for carrying on research by the students of the University for the Ph.D. Degree of this University: it also recommended recognition of four members of the staff of the Central Salt and Marine Chemicals Research Institute, Bhavnagar and of eight members of the staff of Indian Veterinary Research Institute, Izatnagar for guiding the research work.

(4) The Council sanctioned an amount of Rs. 500/- as grant to the Medical Officer, University Health Centre, Baroda, for publishing the Investigation Report. 'Radiological data of the Chest and Heart findings in University Students.'

(5) The Council recommended some changes in rules for extension of the time limit for submission of thesis for the Ph.D. degree and also procedure for the revision of the thesis.

(6) The Council recommended the recognition of 17 more teachers as Post-graduate teachers in different subjects. All the above recommendations were subsequently approved by the Syndicate.

### 2. Faculties

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

<i>S.No.</i>	<i>Name of the Faculty</i>	<i>Date of meetings</i>
( i )	Arts	23-2-1964
( ii )	Science	24-2-1964
( iii )	Commerce	23-2-1964

<i>S.No.</i>	<i>Name of the Faculty</i>	<i>Date of meetings</i>
( iv )	Education and Psychology	20-1-1964
( v )	Medicine	22-2-1964
( vi )	Technology and Engineering	24-2-1964
( vii )	Fine Arts	25-2-1964
( viii )	Home Science	8-9-1963
( ix )	Social Work	9-12-1963
( x )	Law	15-6-1963
		11-1-1964
( xi )	Joint meeting of the Faculties of Arts, Science and Commerce	23-2-1964
( xii )	Joint meeting of the Faculties of Arts and Commerce	23-2-1964
( xiii )	Joint meeting of the Faculties of Arts and Fine Arts	23-2-1964
( xiv )	Joint meeting of the Faculties of Science and Technology and Engineering	24-2-1964

Important items of business on which the Faculties made recommendations are mentioned below:

(1) *Faculty of Arts:*

- ( i ) Approved addition of one more paper of Compulsory English at the F.Y.B.A. course;
- ( ii ) Approved that the courses in the subject of Hindi at F.Y. ( B.Mus. ) and S.Y. ( B.Mus. ) be the same as in Preparatory and F.Y.B.A. examinations respectively;
- ( iii ) Approved the list of subordinate subjects that can be offered by students taking English as Principal subject in M.A.;
- ( iv ) Approved that a text containing mainly prose passages of present day English with plenty of vocabulary and grammar exercises be prescribed at all levels in the Faculties of Arts, Commerce, Fine Arts and Home Science;
- ( v ) Recommended that the Department of English should undertake the work of preparing reading material of the Preparatory courses;
- ( vi ) Approved the amended admission qualifications for the Certificate and Diploma Courses in German Language;
- ( vii ) Approved the revised syllabi for M.A. examination in Sociology, Syllabi at F.Y.B.A. and S.Y.B.A. ( Minor ) and M.A. ( Subsidiary ) in Linguistics and also approved modified details of the scheme of practical examination in Diploma course in Library Science.

(2) *Faculty of Science:*

- ( i ) Decided that the students who have passed Diploma in Textile Chemistry be admitted to the F.Y.B.Sc. class in the Faculty of Science and be allowed to offer as Principal/Subsidiary subjects: ( a ) Physics, ( b ) Chemistry, ( c ) Mathematics, ( d ) Statistics, ( e ) Geography, ( f ) Geology;
- ( ii ) Decided to amend the courses in Physics for the B.Sc. Degree in Home Science and spread them over the two semesters.

(3) *Faculty of Education and Psychology:*

- ( i ) Decided that in case of a student who reappears at the M.A. Examination in Psychology on account of his failing to pass the same at an earlier attempt, the marks earned by him in the Dissertation at earlier attempt be carried forward to the next examination results provided he has earned at least 40% marks thereat. After such carry-forward of the marks, the student be awarded a class, if he is otherwise eligible for it;
- ( ii ) Amended O.Ed. 25 and O.Ed. 29 pertaining to the M.Ed. Degree course with effect from M.Ed. Examinations of 1966.

(4) *Faculty of Commerce:*

- ( i ) Replaced the paper of " Economics of Planning " by a paper of " Accountancy and Auditing ( with special reference to co-operatives )" for Post-graduate Diploma in Co-operation and approved the syllabus also;
- ( ii ) Modified the practical training programme of the Post-graduate Diploma in Co-operation;
- ( iii ) Decided to hold the examination for Post-graduate Diploma in Co-operation in June.

(5) *Faculty of Medicine:*

- ( i ) Recommended starting of separate departments of ( a ) Bio-chemistry and ( b ) Bacteriology;
- ( ii ) Recommended that ( a ) The students should have special course for two weeks in chest diseases as lecture demonstration and ( b ) the medical journals, books, libraries, films, tape records etc. are most essential in Medical Education;
- ( iii ) Recommended for recognition of some Military Hospitals for degrees or diplomas of this University for the eligible students of this University or for the persons deputed by this University provided they are registered by this University as per the rules;

- (iv) Recommended that the degree should be conferred after the candidate has passed final M.B.,B.S. Examination and that every candidate will be required to undergo compulsory housemanship (Internship) for a period of 12 months before he is allowed full registration as suggested by the Medical Council of India;
- (v) Recommended that the number of full working days should not be less than 250 days in a year.
- (6) *Faculty of Technology and Engineering:*
- (i) Approved syllabi, scheme of examination, etc. for the Second Year of Five Year Integrated Degree Course in Civil, Mechanical, Electrical and Chemical Engineering;
- (ii) Revised the existing scheme in the subject 34E Electrical Engineering IV for the B.E. (Electrical) Examination;
- (iii) Revised the existing scheme in the subject Design and Drawing for the B.E. (Civil) Examination;
- (iv) Revised the existing scheme and syllabi in the subject of Engineering Electronics for the Final Year Diploma Examination in Electrical Engineering;
- (v) Revised the syllabi, scheme of teaching and examinations, etc. for the existing six M.E. Degree Courses and approved syllabi, schemes of teaching and examinations and Ordinances etc. for the new M.E. Degree Courses viz. (a) Structural Engineering, (b) Concrete Technology, (c) Refrigeration and Air Conditioning, (d) Production Engineering, (e) Electrical Power Engineering, (f) Petrochemical Engineering, (g) H. V. Power Engineering and (h) Industrial Engineering and Management;
- (vi) Discontinued the grant of benefits of the condonation of failure as stated in O. 282 (iii) (b) to the students at the First Year, Second Year and Final Year Diploma Examinations in CME from the Examinations of 1965;
- (vii) Approved the Ordinances, syllabi, scheme of examination, etc. for Post-graduate Course in Textile Engineering (M.Text. Eng.);
- (viii) Discontinued the holding of the joint meeting of the Boards of studies in Engineering and Technology (Textile) for purposes of preparing panels of examiners and considering the report of examiners;
- (ix) Recommended that the examination in the subject of Design for the Vth Year B.Arch. Degree Course be conducted by the panel of Jury;

- (x) Approved admission requirements, syllabi scheme of the two year examinations etc. degree courses in CME for the benefit of Diploma holders in CME;
- (xi) Approved the proposal to develop and strengthen the Degree course in Architecture by converting the existing department into a full fledged school of Architecture;
- (xii) Approved the admission requirements, schemes of teaching and examinations, syllabi etc. for the Four Year part-time Diploma Courses in Civil, Mechanical and Electrical Engineering and for the Post-diploma Courses in Automobile Engineering, and Air Conditioning and Refrigeration.
- (7) *Faculty of Fine Arts:*
- (i) Approved the proposed modifications in the existing syllabi, scheme of examination etc. prescribed for the Diploma Course in Textile Design;
- (ii) Recommended that the present allotment of equal marks for Home and for examinations both for theory and practical subjects, at the B.A. (Fine), M.A. (Fine), M.A. (Fine) Arts Education be modified and 40% of the total available marks in theory and practical heads of passing be reserved for Home and Class record and the remaining 60% before annual/University Examinations;
- (iii) Amended Rule No. 4 relating to the standard of passing the Faculty tests and the University Examination in the Faculty of Fine Arts;
- (iv) Discontinued the practical courses in Museology prescribed for the 2nd Year specialization courses in Applied Arts;
- (v) Recommended that students reading for the B.A. (Fine) Applied Arts or Diploma in Textile Design be allowed to offer any one of the optional subjects prescribed for the said courses;
- (vi) Recommended that the proposed modifications to the present courses in Painting and Applied Arts be generally approved;
- (vii) Approved the proposed modifications and additions to the existing courses viz. Diploma (Vocal, instrumental, tabla) B.Mus., M.Mus. (Music);
- (viii) Approved the proposed modifications for the B.Mus. and M.Mus. Dance Courses;
- (ix) Approved the details of course etc. for the proposed 5 years Diploma Course in Dance;
- (x) Approved the proposed modifications and additions in Dhrupad Dhamar Courses of B.Mus.;

- (xi) Approved the proposal that the Dhrupadas in Lalit and Darbari be Chatuspadi as far as the Diploma Fifth Year Vocal Music Courses are concerned;
- (xii) Approved the proposal that Vocal light music courses be included for students of instrumental music also in B.Mus.;
- (xiii) Approved the provision for A.T.K.T. at the 1st, 2nd, 3rd and 4th Year Diploma Examinations in Music, Dance and Dramatics;
- (xiv) Made a provision that students who have passed the Bachelor's or Master's Degree Examination of this University or an Examination recognised as equivalent thereto be considered eligible for admission to the Diploma Course in Museology provided they undergo an orientation course of four weeks which may be organised for them by the department after their admission;
- (xv) Recommended that the present Board of Studies in Painting, Sculpture and Applied Arts be suitably enlarged.

(8) *Faculty of Home Science:*

- (i) Approved Ordinances for Ph.D. Course in (i) Child Development and (ii) Foods and Nutrition;
- (ii) Amended various Ordinances relating to the B.Sc. (Home) and M.Sc. (Home) courses;
- (iii) Revised the outlines of the syllabi in (a) Child Development, (b) Home Management, (c) Home Science Education and Extension, (d) Clothing and Textile, (e) Foods and Nutrition and (f) Core courses of the B.Sc. Home Science course;
- (iv) Revised the outlines of the syllabi in (a) Child Development and (b) Foods and Nutrition of the M.Sc. (Home) course;
- (v) Amended O.H.S. 21 relating to Post-graduate Diploma in Nursery School Education.

(9) *Faculty of Social Work:*

- (i) Approved the curriculum and reading for the academic years 1964-66;
- (ii) Amended Ordinances nos. O. SW. 5, O.SW. 6, O.SW. 7, O.SW. 8, O.SW. 9, O.SW. 11, O.SW. 12 and O.SW. 13, laid down for the M.S.W. course.

(10) *Faculty of Law:*

- (i) Approved the syllabus for (a) Post-graduate Diploma course in Taxation Laws and practice, (b) Post-graduate Diploma course in Labour Laws and Practice and (c) LL.M. degree course;

- (ii) Amended the standard of awarding first class at the first and second LL.B. examinations;
- (iii) Amended the admission requirements for (a) Post-graduate Diploma in Taxation Laws and Practice and (b) Post-graduate Diploma in Labour Laws and Practice, with a view to consider B.A. and B.Com. pass students eligible for admission to these two Post-graduate Diploma Courses.

(11) *Joint Faculties of Arts, Science and Commerce:*

- (i) Approved the revised syllabi in Mathematics at F.Y.B.A. and F.Y.-B.Com. examinations;
- (ii) Recommended the principle to print the question papers in Mathematics, if more than five students are taking the examinations;
- (iii) Approved the syllabus, scheme of examination, etc. for holding the M.Sc. examination in Geography in two parts viz. (a) M.Sc. (Previous) and (b) M.Sc. (Final);
- (iv) Approved the revised syllabi in Geography for F.Y.B.A., S.Y.B.A., and T.Y.B.A., and F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc. examinations;
- (v) Approved the provision that a student who reappears at the M.A./M.Sc. examinations in Geography on account of his failing to pass the same at an earlier attempt, the marks earned by him in the Dissertation at earlier attempt be carried forward to the next examination results provided he has earned at least 40% marks thereat and that he be awarded a class, if he is otherwise eligible for it.

(12) *Joint Faculties of Arts and Commerce:*

- (i) Revised the syllabus for two papers in Mathematical Economics and Econometrics as an optional group at the M.Com. degree examination;
- (ii) Amended the reading list of books for the M.A. Economics;
- (iii) Recommended that Board of Studies in Politics and Administration be renamed as the Board of Studies in Political Science and the same may be placed under the Faculty of Arts.

(13) *Joint Meetings of the Faculties of Arts and Fine Arts:*

- Approved the details of syllabus in respect of the reorganised Degree/Diploma courses in Dramatics with modifications and that the degree be continued to be awarded in the Faculty of Fine Arts.

(14) *Joint Faculties of Science and Technology and Engineering:*

- (i) Approved the revised syllabi in Geology for F.Y.B.Sc., S.Y.B.Sc. and T.Y.B.Sc. examinations;

- ( ii ) Approved the modified scheme of examination and the details of syllabi etc. for holding the M.Sc. examination in Geology in two parts viz. ( a ) M.Sc. ( Previous ) and ( b ) M.Sc. ( Final );
- ( iii ) Recommended that the Board of Studies in Geology be placed under the Faculty of Science, instead of under the Joint Faculties of Science and Technology and Engineering;
- ( iv ) Recommended the principle that every time a syllabus is framed or amended in a particular subject, the Board of Studies concerned should be the appropriate place of its origination and the Dean or his representative of the Faculty where the subject concerned is to be taught should be invited to attend the meeting of this Board.

### 3. Board of Studies

S. No.	Name of the Board	Date of meetings
( i )	Sanskrit, Pali and Ardha-Magadhi Languages and Literature	19-9-1963
( ii )	Persian, Urdu and other Asian Languages and Literature	10-9-1963
( iii )	Hindi Language and Literature	9-10-1963
( iv )	Gujarati Language and Literature	17-9-1963
( v )	Marathi Language and Literature	27-9-1963
( vi )	English Language and Literature	4-10-1963
( vii )	Modern and Ancient European Languages and Literature	20-9-1963
( viii )	Sociology	1-10-1963
( ix )	History, Archaeology and Ancient Indian Culture	12-9-1963
( x )	Philosophy	20-9-1963
( xi )	Linguistics	9-9-1963
( xii )	Library Science	9-9-1963
( xiii )	Law	15-6-1963 } 28-9-1963 } 11-1-1964 }
( xiv )	Physics and Meteorology	12-9-1963
( xv )	Chemistry	5-10-1963
( xvi )	Botany	2-10-1963
( xvii )	Zoology	11-9-1963
( xviii )	Biochemistry	1-10-1963
( xix )	Education	7-10-1963
( xx )	Psychology	7-10-1963
( xxi )	Banking and Business Finance	26-9-1963
( xxii )	Accounts	23-9-1963
( xxiii )	Co-operation	8-9-1963
( xxiv )	Commerce including Business Administration	25-9-1963

( xxv )	Anatomy and Physiology	22-9-1963
( xxvi )	Pharmacology and Pathology	22-9-1963
( xxvii )	Medicine, Surgery, Midwifery etc.	22-9-1963
( xxviii )	Technology ( Textile )	3-10-1963
( xxix )	Engineering	3-10-1963 } 3-2-1964 }
( xxx )	Painting, Sculpture and Applied Arts	14-9-1963
( xxxi )	Architecture	20-9-1963
( xxxii )	Music, Dance and Dramatics	30-9-1963
( xxxiii )	Museology	30-9-1963
( xxxiv )	Home Science	7-9-1963
( xxxv )	Social Work	1-10-1963
( xxxvi )	Mathematics	3-10-1963
( xxxvii )	Statistics and Actuarial Science	30-9-1963
( xxxviii )	Geography	30-9-1963
( xxxix )	Economics	14-9-1963
( xl )	Politics and Administration	14-9-1963
( xli )	Geology	8-10-1963
( xlii )	Joint Boards of Studies in Engineering and Technology ( Textile )	3-10-1963

The items of business at the meetings of the Boards consisted of drawing up of panels of examiners, consideration of reports of examiners, revision of syllabi, prescription of text-books for various courses, etc. Important recommendations made by some of the Boards have been included in the recommendations of the Faculties mentioned in the preceding paragraphs.

## CHAPTER V—OTHER BOARDS AND COMMITTEES

### General

The work done by some of the other Boards and Committees during the year is given below:

#### 1. University Board of Sports

Two meetings of the Board of Sports were held during the year on 10th August and 22nd November, 1963. The Board approved selection of teams in Cricket, Tennis, Hockey, Football, Volleyball, Basket Ball, Badminton, Table Tennis, Athletics, Swimming and Diving, Wrestling, Boxing, etc. to be sent to participate in the University Tournaments. The following coach were appointed:

( i ) Shri J. M. Ghorpade for	Cricket
( ii ) Shri Jochim Fernandes for	Football
( iii ) Shri Yogesh Yadav for	Kho-kho ( Men and Women )
( iv ) Shrimati Shashi Udar for	Hockey ( Women )

The Board appointed Committees to select the teams for participation in the Inter-University Tournaments.

#### 2. Students Welfare Board

The Board met once during the year on the 27th September, 1963. It considered a suggestion for the formation of a "Book Bank".

#### 3. Publication Board

The Publication Board met twice during the year on the 12th August, 1963 and on the 17th January, 1964. At the first meeting, the Board considered and recommended the publication of 38 works. The Board approved the proposal of the Director, Oriental Institute, to start a new quarterly journal "સ્વાધ્યાય" in Gujarati. The journal will be published four times a year as ( 1 ) Dipotsavi Issue, ( 2 ) Vasantapancami Issue, ( 3 ) Aksayatritya Issue and ( 4 ) Janmastami Issue. At the second meeting, the Board considered and recommended the publications of 8 works and reprinting of two works.

#### 4. Board of Extra Mural Studies

The Board of Extra Mural Studies met once during the year on the 30th August, 1963, and recommended a programme of extension lectures by the University teachers and outside experts, educational tours of students and exhibitions to be organised during the year and sanctioned an amount of Rs. 8,950/- for the programme. The lectures delivered are mentioned in Chapter VII—Lectures and Deputations.

#### 5. Advisory Board for the M. S. University Journal

The Board met once during the year on the 4th July, 1963. Three Editorial Boards, one for each of the Humanities Number, Social Sciences Number and Science were appointed. Dr. S. C. Misra was appointed as Editor, Humanities, Professor G. G. Dadlani as Editor, Social Sciences Number and Professor N. M. Bhatt as Editor for Science Number.

#### 6. Library Committee

The Committee met twice during the year on the 5th April, 1963 and 13th March, 1964. At the meeting held on the 5th April, 1963 vendors for purchase of books, etc. for the year 1963-64 were appointed. It approved the allocation of grants of Rs. 90,000 for the purchase of books on different subjects.

At the meeting held on the 13th March, 1964 vendors for purchase of books, etc. for the year 1964-65 were approved. The allocation of grants of Rs. 90,000 for the purchase of books on different subjects was approved.

#### 7. Building and Planning Committee and University Building Committee

A meeting of the University building and planning committee was held on the 20th November, 1963. It recommended the programme of new construction works ordinary and special repairs to the buildings of the University to be carried out during the next year.

#### 8. Students' Advisory Bureau for Studies in India and Abroad

The Bureau collects information regarding courses, etc. in the Indian and Foreign Universities and Educational Institutions and furnishes the same to the local as well as outstation students on request. Total number of books in the beginning of the year viz. April, 1963 were 2,088, to which 493 were added during the year. 76 circulars pertaining to the conditions of admissions, scholarships, short and long term courses run by various Universities, etc. were forwarded to the Colleges and Faculties. The Bureau supplied information pertaining to higher studies in India and Abroad to 501 persons who called at this office personally during the period under report and replied 186 postal queries received from outstation students. The Bureau forwarded during the year fourteen applications for admissions in Institutions and Universities in U.K. Three of these cases are likely to be admitted, four applications have been regretted and the remaining seven applications were under consideration.

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

The Committee met once during the year on the 31st July, 1963. It considered the questions on equivalence of various examinations and cases of eligibility of students referred to it. It recommended recognition of a number of examinations of other Universities and bodies. It also recommended the re-

cognition of the Diploma in Rural Services awarded by the National Council for Rural Higher Education, Ministry of Education, Government of India for admission to the M.A. courses in Economics, Sociology, History and Political Science in the Faculty of Arts, Baroda.

#### 10. Board of Visitors

Meetings of the Boards of Visitors for the Faculties of Science, Technology and Engineering, Fine Arts, Home Science, Preparatory Unit, Oriental Institute and the College of Indian Music, Dance and Dramatics were held during the year. The recommendations and the reports of the meeting were submitted to the Syndicate. Some of the important recommendations made by the Boards and approved by the Syndicate are as under:

(1) *Faculty of Arts:* The Board met on the 16th December, 1963 and recommended that (i) a new department of Linguistics be instituted and M.A. Course in Linguistics be started in co-operation with the Faculty of Education and Psychology; (ii) the scheme for improvement of instruction in English in the Faculty of Commerce be accepted and that one post of Reader (by upgrading the existing post of a lecturer) and two of lecturers be created.

(2) *Faculty of Science:* The Board met on the 26th November, 1963. It recommended that (i) a new post of lecturer be created in Biochemistry; (ii) a new post of Reader in Physics (Nuclear Physics) be created; (iii) the post-graduate diploma course in Statistics be started and (iv) a system of publishing monograph on special scientific topics be instituted in the Faculty.

(3) *Faculty of Technology and Engineering:* The Board met on the 27th November, 1963. It recommended that (i) the proposal to conduct degree courses for the benefit of diploma holders in Civil, Mechanical and Electrical Engineering be approved, (ii) a degree course in Petroleum Technology be approved, (iii) a full-fledged school in Architecture be started, (iv) post-graduate courses in (a) Structural Engineering, (b) Concrete Technology, (c) Refrigeration and Air Conditioning, (d) Production Engineering, (e) Electrical Power, (f) H. V. Power Engineering, (g) Petroleum Engineering, and (h) Industrial Engineering and Management be approved, and (v) Summer Schools in Internal Combustion Engineering and Prestressed Concrete be held at the Faculty.

(4) *Faculty of Fine Arts:* The Board met on the 18th December, 1963. It recommended that (i) the posts of Readers in Art History and Graphic Arts be advertised and (ii) the questions of (a) creating separate Boards of Studies in different subjects and (b) of prescribing admission requirements for M.A. (Fine) in Art History be referred to the Faculty.

(5) *Faculty of Home Science:* The Board met on the 20th November, 1963. It recommended that (i) a post of Reader in Biometrics and Psychometrics be created; (ii) posts of lecturers in Chemistry, Biology, Physics, Mathe-

matics and Community Nutrition course and several posts of Demonstrators be created and (iii) the tuition and laboratory fees be on par with those in the Faculty of Science. The Board appointed a Committee to consider and report on the proposal to introduce a new course of Bachelor of Education (Home).

(6) *Preparatory Unit:* The Board met on the 17th December, 1963. It recommended that more reading material be supplied to students in the subject of English. The students should have enough material to read as rapid Readers in order that they may acquire better knowledge of English for comprehension and expression. Stress should be laid on the study of language at the degree stage also, so long as English remains the medium of instruction.

(7) *Oriental Institute:* The Board met on the 28th November, 1963. It recommended that proposals for construction of a separate building, purchase of MSS and requirements of research staff in the Oriental Institute be included in the Fourth Five Year Plan.

(8) *College of Indian Music, Dance and Dramatics:* The Board met on the 21st January, 1964. It recommended that (i) a note regarding the progress of various research schemes be circulated to the members, (ii) a new post of lecturer in Theory of Music be created, (iii) the present post of Ustad in Dill-ruba be converted to that of a teacher and (iv) the vacant post of Ustad in Dance (Kathak) be converted to that of a teacher.

(9) *Polytechnic:* The Board met on the 20th January, 1964. It recommended that (i) the development programme during the Third Five Year Plan period be approved and that the Government be approached for the necessary grant for staff, equipment, contingencies etc., (ii) the Post-Diploma course in Automobile Engineering be approved and the students who have passed Diploma in Automobile Engineering from Surat and Bhavnagar be also admitted to this course, (iii) Post-Diploma course in Air Conditioning and Refrigeration be approved, (iv) the posts of Lecturer and Senior/Junior Instructors required to cope up with the increased work on account of increase in intake of 60 students at the F.Y. Diploma be filled up immediately subject to Government approval at a later date, (v) the Government of India be approached to delete the words 'Part-time' in the evening Diploma Courses and instead suggest some suitable nomenclature.

#### 11. Committee to select Wardens

The Committee held its meeting on the 13th April, 1963 and recommended continuation of 8 teachers as Wardens of different Halls and appointment of Shri I. A. Dave as Warden of Siddharaj Jayasingh Hall till the 30th April, 1965.

#### 12. Wardens' Committee

There were in all 6 meetings of the Wardens' Committee held during the year on the 9th April, 12th June, 8th July, 16th November, 16th December, 1963

and 18th January, 1964. The allocations of seats for men and women students of the different institutions in the Halls of Residence were made. The Budget for the year 1964-65 and the Revised Budget for the year 1963-64 were prepared.

### 13. Advisory Committee for the Halls of Residence

The Committee met once during the year on the 9th October, 1963. The Committee recommended that the University Grants Commission be approached to approve the construction of one more hall of residence for men students over and above the number already approved in the Third Five Year Plan.

### 14. Finance and Establishment Standing Committee

Ten meetings of the Committee were held during the year. The Committee considered several items concerning requests for additional establishment, grants, purchase of equipments, approval of plans, estimates and tenders for construction of work, contracts for supply of petrol, servicing of vehicles, cleaning and adjustment of typewriters, etc. and requests from the members of the staff regarding study leave, leave without pay for study abroad and extensions, etc. The recommendations of the committee were placed before the Syndicate.

The Committee met as Budget Committee on the 25th January, 1964. It submitted to the Syndicate the revised estimates for the year 1963-64 and the estimates for the year 1964-65 after scrutinising various proposals received from the Faculties, Institutions and Officers of the University.

### 15. Investment Committee

The Committee held six meetings during the year. The recommendations of the Committee concerning the investment, etc. of the University funds were submitted to and approved by the Syndicate.

### 16. The Committee for the General Education and Preparatory Courses in Arts, Science and Commerce

The Committee met on the 8th August, 1963. The Committee recommended appointments of sub-committees for General Education Programme and for various subjects of Preparatory Courses upto the period ending the 30th June, 1965.

The question of allowing the failed students at the Preparatory Arts and Commerce examination to change their optional subjects was discussed at the meeting and it was resolved that the failed students at the Preparatory Arts and Commerce Examinations be allowed to appear in the Examination as ex-students with different optional subjects provided they attend classes in the new optional subjects to the satisfaction of the Head as casual students for at least two terms.

### 17. Selection Committees

During the period from the 1st April, 1963 to the 31st March, 1964, there were 19 meetings of the Selection Committees appointed under section 48 (2)

of the Act and they recommended 17 candidates for appointment to the posts of Professors and Readers in various Faculties and Institutions of the University. There were 100 meetings of the Standing Selection Committees for Junior Posts and 8 meetings of the Standing Selection Committees for Class III posts, and 206 and 21 candidates respectively were recommended by these Committees for appointment to different posts in the University.

### 18. Shri Sayaji Sahityamala Publication Committee

The Committee met once during the year on the 7th August, 1963 and recommended the book भारतरत्न by Shri U. J. Sandesara for publication. The Committee also approved the publications of the book "भारतना समाजमां विधवानुं स्थान" by Shrimati Vatsala Mehta under Matushri Jamnabai Smarak Granthmala.

### 19. Press Supervisory Committee

There were eight meetings of the Committee held during the year, on the 14th March, 4th May, 26th June, 19th July, 12th October, 16th November, 1963, 10th January and 14th February, 1964.

It considered the monthly reports of the Manager regarding the work of the Press, Stationery Unit and Publication Sales Unit and also printing programme and made recommendations regarding purchase of paper, stationery equipments, etc. The rates for printing etc. were revised and made applicable from 1st July, 1963. The rates of provident fund contribution of the employees was increased from 6¼% to 8% from November, 1963.

### 20. Baroda Sanskrit Mahavidyalaya Committee

The Committee met on the 11th December, 1963. It recommended that the grades of teachers in the Sanskrit Mahavidyalaya be revised. The Syndicate accepted the proposal and the grades were revised from the 1st January, 1964; an allowance of Rs. 75 per month was sanctioned to the Principal from the same date.

### 21. Sheth Ujamshi Pitambardas Ayurvedic Research Committee

The meeting of the Committee was held on the 24th August, 1963. The Committee recommended that (i) more attention be given on fundamentals of Ayurveda; (ii) the literary collection made on various diseases be edited and published; (iii) the works produced so far be collected. The unit is completing ten years and a review of the progress may also be published.

### 22. Professor B. K. Thakore Publication Committee

The meeting of the Committee was held on the 21st March, 1963. The Committee reviewed with satisfaction the work of publication of Professor B. K. Thakore till to-date. It resolved to request Professor Umashankar Joshi and

Shri Kisansinh Chavda to explore the possibility of editing and publishing the so far unpublished diaries of Professor B. K. Thakore.

### 23. N.C.C. Senior Division Advisory Committee

The Committee met once during the year on the 24th September, 1963. It was decided that each of the Unit be permitted to constitute an Advisory Committee with the Officer Commanding as the Chairman to recommend the expenditure from the amenities grant sanctioned by the University. The Committee approved the proposal for raising of a Senior Division Naval Unit NCC at Baroda. It also decided to issue a card to each student for whom NCC is compulsory showing therein his full name, class and roll number for checking up the students of the Faculties.

### 24. Advisory Committee for the Health Centre

The Committee met twice during the year, on the 20th July and 23rd November, 1963. At the first meeting the Committee approved the purchase of the X-Ray machine. At the second meeting the Committee recommended the creation of the post of Laboratory-cum-X-ray Technician and a Sanitary Inspector. The proposals were approved by the Syndicate.

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

The meeting of the Committee was held on the 11th July, 1963. The Committee accepted the essay "सामाजिक तंगद्रीली" (Social Tensions) written by Kumari Harshida Pandit for the award of the prize and also selected "वैज्ञानिक दृष्टि" as a subject for the essay for the year 1963-64.

### 26. M. S. University Students Aid Fund Committee

During the year, the Committee met only once on the 3rd October, 1963. It recommended the applications of students of various Faculties and Institutions of the University for financial assistance from the Students Aid Fund and made awards totalling Rs. 19,231 as grant and Rs. 675 as loan, for tuition fees, examination fees, books, etc.

### 27. Deans' Meeting

Two meetings of the Deans of the Faculties and the Heads of the Institutions were held during the year on the 19th July, 1963 and the 15th March, 1964. At the first meeting a programme of development counselling was chalked out for each Faculty. At the second meeting the question of liason between the Faculty Students' Association and the Union was discussed, and it was decided that one of the Faculty representative on the Executive Committee of the Union may be nominated by the President of the Union on the Students' Association of the Faculty, but with no powers of voting. The suggestion of the University

Grants Commission that no teacher should leave the University during the term was generally approved. The suggestion of the Director of Education regarding feasibility to employ suitably qualified women teachers in Arts, Science and Commerce on part-time basis was generally accepted. The gift of a bicycle by Messers Tube Investments Company of India Limited, Madras was accepted and the Vice-Chancellor was authorised to award the same to a deserving meritorious student.

### 28. Planning Forum

The University Planning Forum celebrated the National Plan Week from the 20th to the 28th September, 1963, which was inaugurated by Dr. J. M. Mehta, the Vice-Chancellor of this University. The other programmes arranged during the week were two special Lectures delivered by the two eminent Indian economists, Dr. Surendra J. Patel and Professor Jagdish N. Bhagwati. The members of Economics department also delivered extension lectures in the local schools. Inter Faculty Students' Debate, Symposium on Planning, Educational trip to Villages, Essay Competition, Plan Exhibition, Film Shows, etc. were held under the programme. The teachers and students from various Faculties participated in the celebrations.

## CHAPTER VI—RESEARCH WORK IN UNIVERSITY

During the year, post-graduate and research work was done in almost all faculties and institutions of the University. 209 students, who were registered for the Ph.D. degree in previous years continued the research work on their theses. 56 new students (19 in Faculty of Arts, 30 in Faculty of Science and 7 in Faculty of Education and Psychology) were registered for the Ph.D. Degree during the year under report.

### 2. Research schemes sponsored by the University

On the recommendation of the Council of Post-graduate Studies and Research, the University approved the continuation or implementation of the following research schemes. The expenditure of these schemes is being borne by the University from its own funds. An amount of Rs. 1,59,000 was sanctioned by the University for this purpose during the year.

<i>Faculty/Department</i>	<i>Research Scheme</i>
<b>Faculty of Arts</b>	
Archaeology and Ancient History	Chronology of Gujarat—Volume II (942-1300 A.D.)
History	( i ) Muslim Communities in Gujarat ( ii ) Selected bibliography for the history of Gujarat under the East India Company
Political Science	Leadership in an Indian village
<b>Faculty of Science</b>	
Bio-chemistry	Studies on nicotinic acid metabolism in fenugreek, ( Methi )
Botany	( i ) Studies on the isolation of suitable algae for sewage purification ( ii ) Study of the effect of some growth regulating substance on cotton, sorghum, wheat, etc.
Chemistry	( i ) Synthesis of ion-exchange compounds ( ii ) Mesomorphism and chemical constitution ( iii ) Metal chelates of oximes
Geography	( i ) Transport and rise of towns in Gujarat ( ii ) Atlas of Gujarat
Zoology	Studies on the salivary glands of the house swift ( Apus Affinis )
<b>Faculty of Education and Psychology</b>	
Education	( i ) A survey and evaluation of the administration of school systems in India

<i>Faculty/Department</i>	<i>Research Scheme</i>
	( ii ) Collection, study and editing of the important educational records of the Baroda State under Maharaja Sayajirao Gaekwad
	( iii ) A linguistic cultural comparison of English and Gujarati
	( iv ) A survey of living conditions of M. S. University students with special reference to relation to education
<b>Faculty of Medicine</b>	
Bio-chemistry	( i ) Inquiry into investigations on urinary excretions, etc. ( ii ) Inquiry into investigations of effect of different foods on the urinary quinine excretion
Medicine	Investigation of various types of nutritional abenias in humans and animals
Pathology	Meunscum sebaceum in the rabbits
<b>Faculty of Technology and Engineering</b>	
Applied Mechanics	Swelling pressure in expansive soils
Civil Engineering	( i ) Studies of properties of road stone aggregate of Gujarat ( ii ) Study of weirs with convex and concave upstream faces
Mechanical Engineering	Investigations of factors of stress concentration in bars with sharp grooves and fillets in tension photo elastically
Geology	Structural investigation of high grade metamorphic rocks
<b>Faculty of Home Science</b>	
Child Development	( i ) Infant testing programme for motor and mental abilities of infants ( ii ) Pilot study of administering the Lieter International Scale ( iii ) A study of motor development of pre-school children at Baroda
Foods and Nutrition	( i ) Nutritional studies on methi seed ( ii ) Ascorbic acid metabolism under stress condition ( iii ) Niacin content of processed foods ( iv ) Studies on available iron on oxalate and non-oxalate containing leafy vegetables ( v ) Nutritive value of processed foods

<i>Faculty/Department</i>	<i>Research Scheme</i>	
Home Science Education and Extension	( i ) Problems of adolescent girls in Gujarat State ( ii ) Survey of objectives of Home Science Colleges in India	
<b>Faculty of Social Work</b>		
Mental Hygiene and Psychiatric Clinic University Health Centre	A Study of the mental illness as reflected in the cases closed between July, 1958 and March, 1960 To investigate the nutritional status of the University students	
<b>3. Research schemes sponsored by outside agencies</b>		
The following schemes which have been sponsored by Central Government, State Government, or outside agencies were in progress:		
<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Financing Body</i>
<b>Faculty of Arts</b>		
Agricultural Economics	( i ) Community development and economic change of villages	Union Ministry of Community Development and Co-operation
	( ii ) Rajkot Industrial Estate	UNESCO
	( iii ) Implementation of tenancy abolition in Gujarat State, emerging pattern of land right and agricultural production	Planning Commission
Hindi	Exploration of literary wealth of Gujarat in the field of Hindi language and literature	University Grants Commission
Sociology	( i ) Functional and dysfunctional aspects of working of the Community Development Programme in Gujarat	Central Institute of Studies and Research, Government of India, Mussoorie
	( ii ) Saurashtra Community Development Research Project	U.S. Educational Foundation in India, New Delhi
<b>Faculty of Science</b>		
Bio-chemistry	( i ) Acid metabolism in moulds and plants	Council of Scientific and Industrial Research

<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Financing Body</i>
	( ii ) Mechanism of carotene biosynthesis in carrots and mangoes	Council of Scientific and Industrial Research
	( iii ) Studies on plant tissue culture	Ministry of Education ( Science Department )
	( iv ) Bio-chemical studies on heart tissue of different species in tissue culture	Ministry of Education ( Science Department )
	( v ) Studies on the normal and malignant tissues	Indian Council of Medical Research
	( vi ) Studies on the activities of drugs on maintaining cell lines	Sarabhai Chemicals, Baroda
	( vii ) Effect of Tranquilizer on Brain Metabolism	Sarabhai Chemicals, Baroda
Botany	Flora of Gujarat State	Gujarat State Industrial Research Committee
Chemistry	( i ) Effect of structure on the transition temperature of mixed liquid crystals	Council of Scientific and Industrial Research
	( ii ) Separation of alkaloids	Gujarat State Industrial Research Committee
Physics	( i ) Optical studies of surfaces on Metal crystals	Council of Scientific and Industrial Research
	( ii ) Optical related properties of luminescent materials	Council of Scientific and Industrial Research
	( iii ) Study for molecular of fifth group diatomic molecules	Council of Scientific and Industrial Research
Zoology	( i ) Hystophysiological studies on the red and white muscles of fishes	Council of Scientific and Industrial Research
	( ii ) Studies on the effect induced atrophy on the red and white fibres of the pectoralis muscle and blood in the pigeon	Muscular Dystrophy Associations of America, INC.

Faculty/Department	Research Scheme	Name of the Financing Body
	<b>Faculty of Education and Psychology</b>	
Psychology	( i ) How far do home conditions contribute to juvenile delinquency?	University Grants Commission
	( ii ) A study of conformity and deviation among adolescents from a socio-psychological standpoint	National Council of Educational Research and Training, Ministry of Education
	<b>Faculty of Technology and Engineering</b>	
Electrical Engineering	( i ) Conductivity measurements of textile fibre by capacitance charge method and evaluation of effects of different antistatic agents on the electrification of fibres	Council of Scientific and Industrial Research
	( ii ) Transient response of magnetic amplifier A.C. control	University Grants Commission
	<b>Faculty of Home Science</b>	
Child Development	A study of caste and cultural change in a Gujarat village through an analysis of child rearing practices	Planning Commission
	<b>Faculty of Social Work</b>	
Social Work	A study of the conflicts of young adult students ( those enrolled for pre-University courses ) in relation to parental norms and behavioural manifestation	Ministry of Education, Government of India
	<b>College of Indian Music, Dance and Dramatics</b>	
Music	Research Projects in Music, Dance and Dramatics	Sangeet Natak Akademy and M. S. University
Dramatics	Biography of Nat Amrit Keshav Naik	Sangeet Natak Akademy.

#### 4. Individual Research Work

The research work carried out by the members of the staff without financial assistance from the University or any outside agency, is given in the statement below:

Name of the teacher and department

Subject of research

Name of the teacher and department	Subject of research
<b>Faculty of Arts</b>	
1. Dr. R. N. Mehta, Department of Archaeology and Ancient History	( i ) Report on Devanimori ( ii ) ' Mallapurana ' published by the Oriental Institute ( jointly with Dr. B. J. Sandesara )
2. Dr. ( Mrs. ) D. R. Shah, Department of Archaeology and Ancient History	Comparative study of the skulls of domesticated animals
3. Shri R. S. Mehta, Department of Agricultural Economics	Finance, farm resources and organization —an analytical study of decade of the impact of re-organised credit on agriculture with reference to a district in Gujarat
4. Shri N. M. Pandya, Department of Economics	Changing Indian agrarian pattern with reference to Gujarat
5. Dr. M. G. Gupta, Department of Hindi	The study of Indian culture and society as depicted in the Hindi poetry during fifteenth and sixteenth centuries
6. Dr. A. N. Jani, Department of Sanskrit	( i ) Preparing critical edition of Rupaka-shtak ( ii ) A book on Sriharsha ( Gujarati ) for Sayaji Sahityamala
7. Dr. S. G. Kantawala, Department of Sanskrit	Magas—the sun-worshippers of Persia with special reference to the Bhavisya purana
8. Shri M. M. Shah, Department of History	Relation of the Peshwas and the Gaekwads: 1707-1820
9. Professor I. P. Desai, Department of Sociology	( i ) Some aspects of family in Mahuva —A sociological study of families in a small town ( ii ) Migration and occupational pattern
<b>Faculty of Science</b>	
1. Professor C. V. Ramkrishnan, Department of Bio-chemistry	( i ) Studies on cervix tissue by cultivating in tissue culture ( ii ) Studies on heart tissue of avians, mammals and bat by cultivating in tissue culture ( iii ) Studies on excised root tips of physiolus radiations by cultivating in tissue culture
2. Shri H. R. Chokshi, Department of Bio-chemistry	Studies on clarifications of bone by cultivating in tissue

Name of the teacher and department	Subject of research
3. Dr. (Mrs.) Rajalakshmi, Department of Bio-chemistry	( i ) Nutritional value of fenugreek (methi) ( ii ) Studies on vitamin C in vital organs under stress conditions
4. Professor A. R. Chavan, Department of Botany	Flora of Gujarat
5. Dr. C. H. Pathak, Department of Botany	Growth regulator
6. Professor S. M. Sethna, Department of Chemistry	Studies in coumarins, chromones and flavones
7. Dr. S. L. Bafna, Department of Chemistry	Studies on Ion-exchange
8. Dr. J. S. Dave, Department of Chemistry	Liquid Crystals
9. Dr. K. N. Trivedi, Department of Chemistry	Studies in Coumarins
10. Professor U. N. Singh, Department of Mathematics	( i ) Topological linear spaces ( ii ) Branch algebras ( iii ) Harmonic analysis
11. Professor N. S. Pandya, Department of Physics	Solid State Physics
12. Dr. R. V. Joshi, Department of Physics	Solid State Physics
13. Dr. M. M. Patel, Department of Physics	Vibrational analysis of spectra of diatomic molecules
14. Dr. J. R. Pandya	Optical study of crystal surfaces
15. Dr. S. K. Shah	Theoretical Nuclear Physics
16. Professor N. M. Bhatt, Department of Statistics	( i ) Studies on transformations of normal variate ( ii ) Some problems of Mathematical Statistics
17. Shrimati Indira Bhanot, Department of Statistics	( i ) Statistical summaries of medical inspection reports ( ii ) Studies on wastage and stagnation in Indian Universities ( iii ) Comparison of three year degree courses with old two year degree courses
18. Dr. M. S. Patel, Department of Statistics	( i ) Problems in design of experiments
19. Shri B. K. Shah, Department of Statistics	( i ) Problems in order statistics ( ii ) Problems in curve fitting

Name of the teacher and department	Subject of research
20. Professor J. C. George, Department of Zoology	( i ) Development physiology ( ii ) Structure and physiology of muscle ( iii ) Comparative physiology ( iv ) Neuroendocrinology ( v ) Reproduction physiology
21. Dr. R. V. Shah, Department of Zoology	( i ) Reptilian anatomy and physiology ( ii ) Vertebrate embryology
22. Dr. R. M. Naik, Department of Zoology	( i ) Anatomy, physiology and Zoology of birds ( ii ) Animal behaviour.

#### Faculty of Education and Psychology

1. Professor S. N. Mukerji, Department of Educational Administration	Major satisfaction of a college teaching career
2. Dr. A. S. Patel, Department of Psychology	Influence of high and low prestige on assessment

#### Faculty of Home Science

1. Child Development department staff	Infant testing programme
2. Miss Doril Lokersan, Department of Child Development	Study of motor development of pre-school children at Baroda
3. Dr. (Kumari) Chinna Chacko	Pilot study of administering the Leiten International scale

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

1. Professor R. C. Mehta, Department of Music	Scheme of Indian Music, its legend history and heritage—Agra gharana tradition and chizas
2. Professor C. C. Mehta, Department of Drama	Bibliography of Drama

#### Sanskrit Mahavidyalaya

1. Shri H. C. Mehta	( i ) Kavya Mimansa of Rajshekhar with translation, introduction and critical notes in Gujarati ( ii ) Critical study of Jagannatha
2. Shri L. J. Jha	Jyotish tatva—ancient work on Astrology with a commentary in Sanskrit
3. Shri S. V. Bhattbhatt	Arthasangra of Laugakshi Bhaskar with commentary and introduction

### 5. Examination Reform and Research Unit

The main object of this research unit is (i) to analyse the examination results and suggest remedies to improve the system of examination and to reduce wastage and (ii) to evolve some suitable admission criteria for various courses.

During the academic year 1963-64, the Unit worked on two problems viz. (i) Factor Analysis of Secondary School Certificate and Preparatory Science Examination Marks and (ii) Item analysis of the Scholastic Aptitude Tests. For item analysis, it prepared (a) Abstract Reasoning Test, (b) Numerical Ability Test, (c) English Test and (d) Verbal Ability Test. The work of item-analysis is in progress for preparing a composite scholastic Aptitude Test. A full report entitled "Empirical Studies in Examinations Monograph-3", on the work done during the year, has been published in March, 1964.

## CHAPTER VII—LECTURES AND DEPUTATIONS

### 1. University Extension and Other Lectures

The following lectures were delivered under the auspices of the University during this year:

Sr.No.	Name of the Lecturer	Date	Subject
<b>Faculty of Arts</b>			
1.	Shrimati Veena S. Gajendra-gadkar, Bombay	9-1-1964	Science and Philosophy
2.	Dr. Dashrath Oza, Delhi University	18-1-1964	Madhyakalin Hindi Aur Gujarat Natya Sahityame Rashtriya Ekta ke Tatva
3.	Dr. Maharaj Kumar Raghubir Singh	31-1-1964	Seminar—Techniques of historical research
4.	Shri J. L. Dholakia, Ahmedabad	6-2-1964	Choice of technique in a developing economy
5.	Professor R. S. Joag, Poona	10-2-1964	Vangamayin Aatmanistha Swarup, Maryada Ani Mulya
6.	Dr. A. D. Pusalkar, Director, Bhandarker Oriental Research Institute, Poona-4	3-3-1964	Literary and Archaeological evidence on the Aryan explanation in India.
<b>Faculty of Science</b>			
1.	Shri V. B. Buch, Research Scholar, Madurai University	27-6-1963	Rings of continuous functions
2.	Professor H. Morinato, Keio University, Japan	2-7-1963	Unbiased estimates for restricted parameters
3.	Dr. R. P. Sinha, Chief Chemist, Oil and Natural Gas Commission, Dehradun	3-7-1963	The Chemistry of petroleum
4.	Mr. Pefer Walter, Research Assistant, Iowa University, Ameo, Iowa, U.S.A.	1-8-1963	Student life in an American University
5.	Shri Jagjit Singh, Railway Board	20-8-1963	Braino and computers
6.	Dr. A. R. Patel, Principal, Shri V. P. Mahavidyalaya	23-8-1963	Story of diamond

<i>Sr.No.</i>	<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
7.	Professor M. C. Chakravarty, Head, Statistics Department, Bombay University	24-9-1963 30-9-1963	Orthogonal Latin Squares Design
8.	Shri M. S. Mani, Industrial Engineer, Sarabhai Chemicals, Baroda	26-9-1963	Work sampling
9.	Dr. Mohd. Shafi, Head, Geography Department, Aligarh University	30-9-1963	Techniques in land utilisation
10.	Dr. George Kurian, Director, Delhi School of Economics	30-9-1963	Some aspects of industrial Geography
11.	Dr. V. Srinivasan, Director, Sarabhai Chemical Research Institute, Ahmedabad	1-10-1963	Polypeptides of biological interest
12.	Professor E. R. B. Shanamgundaram, Professor of Bio-Chemistry, Madras	1-10-1963	Biogenetics
13.	Professor J. V. Bhatt, Head, Fermentation Laboratories, Indian Institute of Science, Bangalore	1-10-1963 6-10-1963	Basic Microbiology
14.	Dr. M. S. Chennanariah, Head, Botany Department, Karnatak University, Dharwar	3-10-1963	The new trends in taxonomy
15.	Dr. Mohd. Anas, Reader in Geography, Aligarh University	3-10-1963	The changing pattern in Geography of Australia, New Guinea
16.	Dr. L. B. Kajale, Principal, College of Science, Bardoli	16-11-1963	The origin of life
17.	Professor K. De. Codrington, Institute of Archaeology, London	9-12-1963	Importance of Geography in Indian archaeological studies
18.	Dr. Somasekhar, Research Chemist, Sarabhai Chemicals	10-1-1964	Thermal decomposition of arematic azines
19.	Dr. U. K. Mishra, Senior Scientific Officer, V. P. Chest Institute, Delhi	18-2-1964 to 22-2-1964	Radioactive tracer technique and their applications
20.	Shri Vinay Kamdar, Metallurgist with Tractors and Bulldozers Ltd., Baroda	20-2-1964	Illustrated talk on Western America

<i>Sr.No.</i>	<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
21.	Professor S. S. Shrikhande, Head, Mathematics Department, Bombay University	21-2-1964	Dis Proof Fuler's Conjecture

#### Faculty of Education and Psychology

1.	Swamy Hiranmayananda, Ramkrishna Mission Vidya-peeth, Vivekanand Nagar (West Bengal)	12-12-1963 13-12-1963	Educational philosophy of Swami Vivekanand and psychology of Sadhana
2.	Dr. J. P. Naik, Educational Adviser, Government of India, New Delhi	26-2-1964	Universal compulsory education and the Five Year Plan

#### Faculty of Technology and Engineering

1.	Shri M. Govind, Jeep Manufacturing Division, Mahindra and Mahindra Ltd., Bombay	22-11-1963	( i ) Design and manufacture of the Jeep ( ii ) Industrial engineering and the challenge
2.	Shri Dinesh Mohan, Director, Central Building Research Institute, Roorkee	3-12-1963	Bearing capacity of soil and methods of its evaluation
3.	Dr. H. V. Gopalkrishna, Professor of Electrical Engineering, High Voltage Engineering Department, Indian Institute of Science, Bangalore	3-12-1963 12-12-1963	Lightening and lightening protection of transmission lines Recent trends in high voltage power transmission
4.	Dr. D. J. Henkel, of Imperial College of Science and Technology, London, Professor of Soil Mechanics, Indian Institute of Technology, Delhi	17-2-1964	Geology and soil mechanics

#### Faculty of Home Science

1.	Shri G. C. Mathur, Head, Publicity Division, National Building Organisation, Delhi	17-12-1963 18-12-1963	( i ) Role of National Building Organisation and Housing Condition ( ii ) Problems of housing building materials and cost of construction ( iii ) Film and slides on home gardening and modern housing
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Sr.No.	Name of the Lecturer	Date	Subject
2.	Dr. (Kumari) Rajlaxmi Verma, Reader, Child Study Unit, Indian Council of Education Research, New Delhi	4-3-1964	Current research in child development in India

#### Faculty of Social Work

1.	Shri Rajani B. Kothari, Director, Institute for the Study of Development Society, New Delhi	17-1-1964	Panchayati Raj in Democracy
2.	Dr. T. Subramaniam, Di- rector, ATIRA, Ahmedabad	16-3-1964	Scope of human relations practice in factory set-up in India

#### Sanskrit Mahavidyalaya

1.	Pt. Shri Vinayak Shastri Tillu Vyakaranacharya, Dwarka	21-2-1964	Shabdabodhaprakarana
2.	Pt. Shri Vishnuprasad, Ahmedabad	29-2-1964	Kamalakaroktodayantara- vivechanam.

#### 2. Deputation to Conferences

The following members of the University staff were deputed to attend the Conferences shown against their names, as delegates of the University during the period from the 1st April, 1963 to the 31st March, 1964.

Name of the members of the Staff	Name, Place and dates of the Conference
Dr. J. C. George (Faculty of Science)	'Marine Sciences Symposium' held at Waltair (Andhra State) on the 26th and 27th April, 1963
Shri B. M. Nanavati (Dy. Registrar)	University Teachers' Workshop at Simla from the 19th to the 26th May, 1963
Shri G. G. Dadlani Shri S. K. Majmudar (Faculty of Social Work)	Seminar on Use of Case Material as a Teaching School held at Tata Institute of Social Sciences Bombay from the 20th to 26th May, 1963
Professor C. P. Singh Dr. A. S. Nagar (Faculty of Arts)	Bhartiya Hindi Parishad held at Aligarh from the 26th to 28th May, 1963
Professor I. S. Gulati (Faculty of Arts)	A Seminar on Economic Growth in India held at Mysore from the 10th to 12th June, 1963
Dr. D. K. Shukla (Faculty of Commerce)	

Name of the members of the Staff	Name, Place and dates of the Conference
Professor S. N. Mukerjee (Faculty of Education and Psychology)	7th Conference of All India Association of Training Colleges held at New Delhi from the 12th to 14th June, 1963
Professor L. J. Bhatt (Faculty of Education and Psychology)	10th Conference on 'Psychology and War' arranged by the Madras Psychology Society from the 14th to 17th August, 1963
Shrimati A. Chandra (Faculty of Home Science)	Conference on Development of Extension Educa- tion at College of Agriculture, Veterinary and Home Science held at the Orientation and Study Centre, Udaipur (Rajasthan) from the 17th to 21st August, 1963
Professor A. H. Somjee (Faculty of Arts)	A Seminar organised by the Indian Council of World Affairs for 68 member team of American Political Science Association held at New Delhi on the 21st August, 1963
Shri K. S. Yajnik Shri D. B. Desai (Faculty of Education and Psychology)	All India Workshop on Social Studies held at the Government Post-Graduate Basic Training College, Chandigarh, (Punjab), from the 19th to 24th September, 1963
Professor A. R. Chavan (Faculty of Science) Kumari Shakuntala Dube (Faculty of Social Work)	50th Session of the Indian Congress held at Delhi from the 7th to 10th October, 1963
Shri K. S. Yajnik (Faculty of Education and Psychology)	General Education Seminar held at the S.N.D.T. Women's University, Bombay, on the 11th and 12th October, 1963
Shri M. B. Achwal (Faculty of Technology and Engineering)	12th Annual Town and Country Planning Seminar held at Gauhati (Assam) from the 13th to 18th October, 1963
Shri S. M. Nair (Department of Museo- logy)	Annual Meeting and Seminar of the Museums Association of India held at Lucknow on the 13th and 14th October, 1963
Dr. C. P. Shukla (Shrimati Hansa Mehta Library)	5th Iaslic Conference held at the Poona University Library from the 21st to 24th October, 1963

<i>Name of the members of the Staff</i>	<i>Name, Place and dates of the Conference</i>
Shrimati M. M. Amin (Faculty of Education and Psychology)	8th All India Guidance Conference held at Allahabad from 29th October to 31st October 1963
Shri I. A. Dave (Faculty of Arts)	16th Annual Session of the Conference of Collegiate Teachers of Gujarati held at Aliabada, Saurashtra from 31st October, 1963 to 1st November, 1963
Dr. C. P. Shukla Shri H. C. Mehta (Shrimati Hansa Mehta Library)	A two-day Library Science Seminar which forms a part of a week of Educational and Cultural Activities held at Ahmedabad from the 17th November to 23rd November, 1963
Shri D. V. Shastri (Faculty of Arts) Shri H. C. Mehta (Sanskrit Mahavidyalaya)	Kalidasa Samaroha Celebration and Research Seminar held at Ujjain from the 27th November to the 3rd December, 1963
Dr. K. N. Naik (Faculty of Commerce)	4th Indian Co-operative Congress held at New Delhi from the 29th November, 1963 to the 1st December, 1963
Kumari K. B. Chopra Shri H. Summerfield (Faculty of Arts)	Seminar on Shakespeare held at Bombay from the 11th to 21st December, 1963
Dr. J. C. Sandesara (Faculty of Arts)	All India Labour Economic Conference, Bombay, from the 25th to 28th December, 1963
Professor M. B. Desai (Faculty of Arts)	23rd Annual Conference of the Indian Society of Agricultural Economics held at Delhi from the 25th to 29th December, 1963
Dr. A. G. Javadekar Dr. (Kum.) S. S. Divatia (Faculty of Arts)	37th Session of the Indian Philosophical Congress held at Chandigarh from the 26th to 29th December, 1963
Professor V. Y. Kantak (Faculty of Arts)	14th Session of the All India English Teachers Conference held at Jaipur from the 26th to 28th December, 1963
Professor B. G. Shah (Faculty of Commerce)	17th Session of the All India Commerce Conference held at Agra from the 26th to 28th December, 1963
Dr. D. K. Shukla (Faculty of Commerce) Dr. L. S. Venkatraman (Faculty of Arts)	46th Annual Conference of the Indian Economic Association, Bombay, from the 26th to 31st December, 1963

<i>Name of the members of the Staff</i>	<i>Name, Place and dates of the Conference</i>
Kumari Hira Charak (Faculty of Home Science)	Workshop on Nursery School Education at Delhi from the 26th December, 1963 to the 7th January, 1964
Professor V. Y. Kantak (Faculty of Arts) Professor S. M. Sen (Faculty of Technology and Engineering)	38th Session of the All India Educational Conference held at Baroda from the 26th to 30th December, 1963
Shri B. S. Yadav (Faculty of Science)	29th Conference of the Indian Mathematical Society held at Madras from the 29th December, 1963
Dr. S. C. Misra Shri R. Krishnamurthy (Faculty of Arts)	25th Session of the Indian History Congress held at Poona from 27th to 29th December, 1963
Shri N. S. Pathak (Faculty of Education and Psychology)	2nd Annual Conference of India Academy of Applied Psychology held at Tirupathy, Andhra Pradesh from the 27th to 29th December, 1963
Shri C. C. Shah (Faculty of Technology and Engineering)	29th Conference of the Indian Mathematical Society held at Madras from the 27th to 29th December, 1963
Dr. S. H. Joshi (Faculty of Arts)	22nd Session of Gujarati Sahitya Parishad held at Bombay from the 28th to 30th December, 1963
Dr. K. N. Trivedi (Faculty of Science)	First meeting of the Indian Chemical Society held at Bombay from the 29th to the 31st December, 1963
Professor S. M. Sethna (Faculty of Science)	Annual Session of the Indian Chemical Society at Bombay from the 29th to 31st December, 1963
Dr. A. M. Talati (Faculty of Technology and Engineering)	Symposium on Semi-conductors held at Bombay on the 21st December, 1963
Dr. A. N. Jani (Faculty of Arts)	27th Conference of All India Sanskrit Sahitya Sammelan at Gaziabad from the 1st to the 3rd January, 1964
Professor C. V. Ramakrishnan (Faculty of Science)	2nd All India Cancer Conference held at Madras from the 2nd to 5th January, 1964
Professor B. J. Sandesara Dr. U. P. Shah (Oriental Institute) Dr. S. C. Misra Dr. A. N. Jani (Faculty of Arts)	26th International Congress of Orientalists held at New Delhi from the 4th to 10th January, 1964

<i>Name of the members of the Staff</i>	<i>Name, Place and dates of the Conference</i>
Dr. M. M. Patel ( Faculty of Science )	Symposium on " Spectroscopy at Radio and Microwave Frequencies " held at Bombay on the 7th and 8th January, 1964
Professor C. K. Gairola Shri V. K. Bhatt ( Faculty of Fine Arts )	International Congress of Orientalists held at New Delhi from the 8th to 12th January, 1964
Dr. S. C. Misra ( Faculty of Arts )	U.G.C. sponsored Conference on Post-graduate teaching in History held at New Delhi from 11th to 15th January, 1964
Dr. M. L. Pai ( Faculty of Medicine )	Symposium on " Structure Biosynthesis and Function of Nuclear Acid " held at Hyderabad from the 16th to 23rd January, 1964
Dr. M. K. Oza ( Faculty of Medicine )	All India Physician Conference held at Patiala from the 22nd to 26th January, 1964
Dr. B. S. Verma ( Faculty of Medicine )	All India Conference of Dermatologist and Venerologist held at Patiala in January, 1964
Professor P. J. Madan ( Faculty of Technology and Engineering )	23rd Annual Conference of the A.P.T.I.(I)'s members held at Madras from the 7th to 9th February, 1964
Professor C. H. Khadilkar ( Polytechnic )	
Shrimati Amita Verma ( Faculty of Home Science )	Seminar on " A National Policy for Children " at Hyderabad from the 12th to 15th February, 1964
Shri K. C. Mehta ( Faculty of Commerce )	5th All India Seminar on Management Accounting held at Bangalore, from the 14th to 17th February, 1964
Dr. R. V. Joshi Dr. S. K. Shah ( Faculty of Science )	Law Energy Nuclear Physics Symposium at Chandigarh ( Punjab ) from the 24th to 27th February, 1964
Dr. J. S. Dave ( Faculty of Science )	Symposium on " Nuclear and Radiation Chemistry " at Bombay, from the 16th to 19th March, 1964

### 3. Travel Grants

The following teachers and research scholars were awarded the U.G.C. Travel Grants for purposes of research, higher training or attending special courses.

<i>Name and Designation</i>	<i>Purpose and Institute where deputed</i>
1 Professor A. H. Somjee, Professor of Political Science	To collect material for contributing a paper on Political Science in India in the book " Political Science in South East Asia ", from University departments and institutions at Delhi, Agra, Aligarh, Lucknow, Benaras, Allahabad, Calcutta, Bhubaneshwar, Waltair, Madras, Trivendrum, Dharwar, Mysore, Hyderabad, Poona, Bombay.
2 Professor V. Y. Kantak, Professor of English	To attend the Convention of the American Research Studies Centre at Hyderabad.
3 Shri R. N. Mehta, Reader in English	
4 Shri E. L. Rodrigues, Reader in English	
5 Shri R. Krishnamurthy, Lecturer in History	
6 Shrimati Geeta Somjee, Lecturer in Political Science	
7 Shri K. M. Shah, Research Scholar in Hindi	To collect data for her doctorate thesis from the All India Congress Committee Library, Delhi and the National Library Calcutta.
8 Shri R. P. Bhatt, Lecturer in Botany	To collect data for his doctorate thesis at Bhuj, Mandvi, Ahmedabad and Bombay.
9 Shri S. N. Padate, Lecturer in Botany	Research work in Cytogenetic Laboratory, Department of Botany, Karnatak University, Dharwar.
10 Shri A. G. Phatak, Lecturer in Statistics	Attend lectures, seminar and practicals at the Birbal Sahani Institute of Paleobotany, Lucknow.
11 Shri B. K. Shah Lecturer in Statistics	Training in the Demographic Surveys, etc. at the Demographic and Research Centre, Chembur, Bombay.
12 Dr. J. R. Pandya, Lecturer in Physics	Training and experience in programming on an I.B.M. Computer at the Physical Research Laboratory, Ahmedabad.
13 Shri P. M. Ambadkar, Lecturer in Zoology	Study different techniques in Solid State Physics at National Physical Laboratory, Delhi.
14 Shri K. P. Pillai, Demonstrator in Biochemistry	Training in Autoradiography at the Atomic Energy Establishment, Bombay.
	Training in the Micro-Techniques assigned in Professor Kalyan Bagachi's Laboratory, All India Institute of Public Health and Hygiene, Calcutta.

Name of the Designation	Purpose and Institute where deputed
15 Shri K. S. S. Nair, Research Training Scholar in Zoology	Research work for his doctorate thesis at the Atomic Energy Establishment, Bombay.
16 Shri H. D. Majmudar C.S.I.R. Fellow in Mathematics	To attend summer school in Mathematics arranged at Delhi and also to collect data for his research thesis from the Delhi University Library.
17 Shri K. N. Reddy, Lecturer in Economics	Consult budget documents at the Ministry of Finance and the Central Statistical Organisation at Delhi.
18 Shri R. C. Desai, Lecturer in Electrical Engineering	To attend the Computer Training Programme at the Indian Institute of Technology, Kanpur.
19 Shri Ratan Parimoo, Lecturer in Art History	Study works of art and photograph them at Kalabhavan, Shantiniketan and Indian Museum at Calcutta.
20 Kumari Kalindi C. Patel, Lecturer in Foods and Nutrition	Study the protein extraction method from grain and pulses at the Central Food Technological Research Institute, Mysore.
21 Shri U. R. Gore, Lecturer in Foods and Nutrition	Learn the techniques of inducing Vit deficiency in animals and study the enzyme changes at the Biochemistry Department of the Calcutta University.
22 Shrimati D. M. Chaudhari, Lecturer in Home Science Education and Extension	Attend symposium, panel discussions, seminar and lectures during the Silver Jubilee Celebrations of the Indian Adult Education Association, New Delhi.

## CHAPTER VIII—FACULTY OF ARTS

## 1. Courses of Studies

There was provision for the following courses during the year:

(1) B.A., M.A. and Ph.D.	Archaeology and Ancient Indian Culture, Economics, English, Gujarati, Hindi, History, Marathi, Philosophy, Political Science, Psychology, Sanskrit and Sociology
(2) B.A. and M.A.	Geography and Persian
(3) B.A. (Sub) and M.A. (Sub)	Linguistics, Pali, Prakrit and Urdu
(4) B.A. (Sub)	Education, Law, Mathematics and Statistics
(5) Post-graduate Diploma	Library Science
(6) Diploma	Diploma Course in German Language
(7) Certificate	Course in German Language Course in Russian Language

The Certificate course in Russian is introduced during the year 1963-64.

## 2. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1963-64 was as under:

Class	Men	Women	Total
Certificate Course in German Language	228	10	238
Certificate Course in Russian Language	13	4	17
Diploma Course in German	19	1	20
F.Y.B.A.	186	195	381
S.Y.B.A.	164	117	281
T.Y.B.A.	185	114	299
Diploma in Library Science	9	8	17
Jr. B.A.	55	25	80
Sr. M.A.	66	27	93
Ph.D.	15	3	18
<b>Total</b>	<b>940</b>	<b>504</b>	<b>1,444</b>

## 3. Staff

During the year the staff of the Faculty consisted of 7 Professors, 17 Readers, 57 Lecturers, 7 Tutors, 2 Part-time teachers, one Curator, One Excavation Assistant, 19 Class III (including Technicians) and 20 Class IV employees. The teachers of the Faculty also carried out assignments in other Faculties and Institutions where Humanities and Social Sciences are included in their courses.

#### 4. Library

Some Departments maintain small departmental libraries with books loaned from the Shrimati Hansa Mehta Library. The students of the Faculty make use of the Shrimati Hansa Mehta Library which is the University Library.

#### 5. Museum, Laboratory, Studios, Workshops, etc.

The following is the statement of the cost of equipment:

Sr.No.	Item	Cost of equipment as on 1-4-1963		Cost of equipment written off during the year		Cost of equipment added during the year		Cost of equipment as on 31-3-1964	
		Rs.	nP.	Rs.	nP.	Rs.	nP.	Rs.	nP.
(1)	Museum	4,533	98	—	—	—	—	4,533	98
(2)	Studio	13,809	96	—	—	1,510	44	15,320	40
(3)	Excavation equipment	1,184	35	—	—	437	70	1,622	05
(4)	Drawing equipment	1,806	75	—	—	—	—	1,806	75
(5)	Deadstock	50,710	24	21	00	1,220	09	51,909	33
(6)	U.G.C. (NR) equipment	77,834	57	—	—	—	—	77,834	57
		1,49,879	85	21	00	3,168	23	1,53,027	08

#### 6. Publication by the members of the Staff

The following were the publications by the members of the staff of the Faculty during the year 1963-64 :

##### (1) Books:

Name	Title	Name of the Publisher
1. Dr. M. B. Desai	Report of the Expert Committee on Readjustment in Existing Series of Consumer Price Index Number for Working Class for Ahmedabad and linking it with the New Series	Education and Labour Department, Government of Gujarat, 22nd January, 1964
2. Dr. J. C. Sandesara (jointly with Prof. D. T. Lakdawala, Dr. V. N. Kothari and Dr. P. A. Nair)	Work, wages and well being in Indian Metropolis- Economic Survey of Bombay	Series in Economics, No. 11, University of Bombay, April, 1963

Name	Title	Name of the Publisher
3. Dr. A. N. Jani	Rasakaumudi of Srikantha	Gaekwad Oriental Series No. 143, November, 1963
4. Dr. A. G. Javadekar	Axionoetics: Valuational Theory of Knowledge	Allied Publisher; Bombay and Allen and Unwin, London, May, 1963

##### (2) Articles or Papers:

S. No.	Name	Title	Name of the Journal wherein published
1	Dr. R. N. Mehta	(i) Sabarkantha Prachina Jala-shayo	Vidyapeeth, May-June, 1963
		(ii) Kapadvanja no Lokhand no Prachin Udyog	Svadhyaaya, Oriental Institute, Baroda, March-April, 1963
		(iii) Ancient Bunds in Sabarkantha District, Gujarat State	Journal Oriental Institute XII, June, 1963
2	Shri K.T.M. Hegde	(i) Examination of a bronze axe from Somanath	Journal, Oriental Institute, Baroda XII, 4 June, 1963
		(ii) An analytical study of Navadatoli Beads	Journal, Oriental Institute Baroda XIII, 1 September, 1963
3	Shri Y. A. Raikar	Prostitution during the Period	Yadav Journal, Oriental Institute Baroda XIII, 2 December, 1963
4	Shri A. J. Patel	(i) Folk terracottas of Gujarat	M. S. University Journal, April, 1963
		(ii) Potters' technique through the ages in Gujarat	Journal of Folk-Lore, Calcutta, University Calcutta, August, 1963
		(iii) Folk terra-cottas of India	Cultural Forum, Ministry of Scientific Research and Cultural Affairs, Govt. of India, New Delhi, March, 1964

S. No.	Name	Title	Name of the Journal wherein published
		( iv ) Fragments of ceramics	Journal of the Gujarat Research Society, Bombay, March, 1964
5	Dr. M. B. Desai and Shri R. S. Mehta	Cooperative farming in Gujarat	April issue of the Journal of the Gujarat Research Society, April-May, 1963
6	Dr. M. B. Desai	Land reforms and social change	M. S. University Journal, June-July, 1963
7	Professor I. S. Gulati	Self-sufficiency in defence efforts	Economic Weekly, February, 1964
8	Shri R. Kumar	( i ) The Chicago School ( ii ) U. S. Balance of Payments ( iii ) To amend the I.M.F.	Economic Weekly, August, 1963 Economic Weekly, September, 1963 The Bankers' Magazine, London, November 1963
9	Dr. H. P. Chokshi	Company taxation under the new Budget	Taxation, March, 1964
10	Professor V. Y. Kantak	( i ) An Approach to Shakespearean Tragedy ( ii ) Universities—Indian and British ( iii ) The Poor Player	Shakespeare Survey—16 April, 1963. Cambridge University Press, England The Literary Criterion, Summer, 1963 The Literary Criterion ( Special Shakespeare Number ), Winter, 1963
11	Shri R. N. Mehta	Aldous Huxley	Manisha, March, 1964 ( Gujarati )

S. No.	Name	Title	Name of the Journal wherein published
12	Dr. R. M. Patel	Ghyanachandrani Sinhasanbatrisi	Svadhyaya, October, 1963 ( V.S. 2019 )
13	Shri H. M. Trivedi	( i ) Kavyochit Shabdanu Swarup ( ii ) Kavyama prastut ane aprastut	Kshitij, November, 1963 Parab, November, 1963
14	Shri M. M. Desai	Rupasrustima	Buddhi Prakash, April, 1963
15	Professor C. P. Singh	( i ) Bhuj ( Kachcha ) ki Brajbhasha Patha Shala ( ii ) Rasaamchadhyayi Sanskrit Adhyayana ( iii ) Rashtriyata Aur Hindi Natak Sahityika Nibandha	M. S. University Journal, August, 1963 ( Research Paper ) Journal, Oriental Institute, September, 1963 Sahittika Nibandha. Loka Chetana Prakashan, Jabalpur, 1963
16	Dr. A. N. Jani	An outline of the Evolution of Northern Indian Music	Pade Shastri Felicitation Vol. pp. 17-21, January, 1964
17	Dr. S. G. Kantawala	( i ) Matsyapurana and the Education of a Prince in ancient India ( ii ) Some linguistic peculiarities of the Matsyapurana	M. S. University Journal April, 1963 Indian Linguistics Volume 23, December, 1963
18	Dr. S. C. Misra	( i ) Foundation of Turkish Rule in India	M. S. University Journal April, 1963
19	Professor A. H. Somjee	( i ) Periurban Politics in India ( ii ) The problem of value in recent Political Theory	Asian Survey, California, University Press, July, 1963 Quest, Monsoon, 1963

S. No.	Name	Title	Name of the Journal wherein published
20	Professor A. H. Somjee and Shrimati G. Somjee	Political finance in India	Journal of Politics (Florida U.S.A.) November, 1963
21	Shri A. P. Rana	The Sino Indian Border Conflict and India's foreign policy	M. S. University Journal, July, 1963
22	Dr. A. G. Javadekar	Plea for value Orientation in Philosophy	Shri Pade Shastri Felicitation Volume, Baroda, January, 1964
23	Kumari S. H. Divetia	( i ) Leibnitz and the Modern Age	Journal of the Philosophical Association, July, 1963
		( ii ) Freedom and determinism—A symposium	Journal of the Philosophical Association, July, 1963
24	Dr. R. D. Parikh	Interpretation of social facts	Calcutta Review, Journal of the Calcutta University, March-April, 1963.

#### 7. Co-curricular Activities

##### (1) Debates:

Dr. A. G. Javadekar acted as the Convener of the Speakers' Club. Guidance was given to the students by him regarding debates. Students represented the Faculty at various University Union debates as well as those conducted by other Universities.

##### (2) Societies:

The following societies carried on their usual activities during the year:

- (a) English Literary Society, (b) Shakespeare Society, (c) History Association, (d) Marathi Literary Society, (e) Gujarati Sahitya Mandal, (f) U.N.O. Society, (g) Sanskrit Literary Society, (h) Political Science Society, (i) Economics Association, (j) Philosophy Society, (k) Hindi Sahitya Samiti, (l) The Speakers' club and (m) German Language Society.

Each of these carried out its own programme of symposia and seminars where papers were read by the students and discussions were held with both the students and the teachers participating in them.

The Shakespeare Society presented two shows each of Shakespeare's 'A Mid-Summer Night's Dream' and Tennessee Williams's 'The Glass Menagerie' between 2nd and 5th February, 1964. At the invitation of the St. Xavier's College and Shri Swaminarayan College, Ahmedabad, these plays were also presented at Ahmedabad in February, 1964.

The German language Society arranged some cultural and social programmes during the year. The Society had met almost once in a week on an average for film-shows—both documentary and features films—programmes of classical and modern German music, discussion evenings in German Language, lectures by various personalities from Baroda and Germany and social gatherings.

##### (3) Celebrations:

The Faculty observed the National Plan Week and organised a debate, an essay competition, and symposium on planning in this connection. Shri J. N. Sharma was the Secretary of the Planning Forum and Shri R. S. Mehta, Lecturer in Agricultural Economics and Shri N. M. Pandya, Lecturer in Economics, actively assisted at all stages of these activities.

##### (4) Exhibition:

An exhibition of the Buddhist finds of Devanimori was arranged by the Department of Archaeology and Ancient History.

The German Language Society arranged Bauhaus Exhibition of the famous school of art and architecture which has influenced modern building all over the world during the week from the 29th September to the 6th October, 1963 in the Central Hall of the Faculty.

#### 8. Other Important Events

(1) Excavations were conducted at Nagara, a village in Cambay Taluka from the 19th December, 1963 to the 11th April, 1964, by the Department of Archaeology and Ancient History. Excavations were also conducted at Langhnaj jointly with the Gujarat State and the Deccan College, Poona. Explorations were conducted jointly with the Deccan College, Poona in the Sabarmati Valley. Explorations were conducted in the Cambay Taluka, Kapadwanj Taluka and Dungarpur area and at Modhera, Delmal and other sites in North Gujarat.

(2) Professor Arlin Turner, Professor of American Literature, Duke University, U.S.A. and Visiting Professor in American Literature at the University of Bombay visited the Department of English and delivered two lectures on "Some Trends in Modern American Fiction" and on "The Critics Function" on 11th and 12th February, 1964.

(3) Professor B. J. Sandesara, Head of the Gujarati Department presided over the Second Session of the Gujarat Itihas Parishad (Gujarat Historical Conference) held under the auspices of the University on the 22nd March, 1964.

(4) The International Political Science Association held a round-table Conference at Oxford in the third week of September, 1963. Professor A. H. Somjee, Head, Department of Political Science was invited to contribute a paper on "Recent Indian Experience of Decentralisation".

(5) Kumari Anjali Ambegaonkar a student of this Faculty won the first prize in 'Kathak' Dance in the All India Inter-University Youth Festival Celebration held at Delhi. She is selected to proceed to Europe as a member of the delegation of the Union of the National Council of University Students of India.

## CHAPTER IX—FACULTY OF SCIENCE

### 1. Courses of Studies

There is provision for teaching the following courses:

- (1) B.Sc., M.Sc. and Ph.D. Botany, Chemistry, Geography, Geology, Mathematics, Physics, Statistics and Zoology
- (2) M.Sc., and Ph.D. Bio-chemistry
- (3) Pre-Medical One year's course after Preparatory Science

The new B.Sc. course, started in June, 1957, is an integrated three-year course after Preparatory Science Course and during which a student studies one principal subject and two subsidiary subjects, out of the following: Botany, Chemistry, Economics, Geography, Geology, Mathematics, Physics, Statistics and Zoology. The M.Sc. course is of two years after B.Sc. and it is only by papers and/or dissertation, but not by research alone. The course for Ph.D. degree of two years duration after M.Sc. is by research only.

### 2. Number of Students

The number of students on roll in the various classes in the year 1963-64 were as under:

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Pre-Medical	99	25	124
F.Y.B.Sc.	116	46	162
S.Y.B.Sc.	121	35	156
T.Y.B.Sc.	113	25	138
Jr. M.Sc.	110	17	127
Sr. M.Sc.	110	14	124
Ph.D.	43	5	48
Total	712	167	879

### 3. Staff

During the year the staff of the Faculty consisted of 9 Professors, 17 Readers, 47 Lecturers, 57 Demonstrators or Tutors, 71 Class III (including Technicians) and 51 Class IV employees. The teachers of the Faculty carried out teaching assignments in other Faculties and Institutions of the University, where science subjects are included in their courses e.g. Preparatory Unit, Faculty of Arts, Faculty of Commerce, Faculty of Home Science, Faculty of Technology and Engineering. They also delivered lectures under the General Education Programme of the University. Dr. D. M. Munshi of the St. Xavier's College, Bombay, continued to give during the year a course of lectures on Entomology to M.Sc. students in Zoology.

#### 4. Library

Some departments maintain small departmental libraries with books loaned from Shrimati Hansa Mehta Library. The students of the Faculty make use of Shrimati Hansa Mehta Library which is the University Library.

The amounts spent during the year for science books and periodicals, etc. were: (i) Rs. 10,000 from Science Faculty Books Budget, (ii) Rs. 31,000 from the U.G.C. Grant to the University for books on Scientific subjects and (iii) Rs. 1,000 for binding from Science Faculty Budget.

#### 5. Museums, Laboratories and Workshop

The museums of the Botany, Geography, Geology and Zoology Departments were enriched by the addition of specimens and other articles. Progress was made in the work of preparing a good herbarium in the Botany Department.

The Central Workshop, which has an adequate and competent staff, did very useful work during the year in the preparation of research and other apparatus, repairing of instruments and of training Physics post-graduate students in Workshop practice, etc.

Substantial addition of scientific apparatus and equipment was made during the year to the laboratories of the Faculty. The following table gives the cost of equipment in the different laboratories added during the year 1963-64 and the total cost as on 31-3-1964.

Laboratory	Cost of equipment as on 1-4-1963	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1964
	Rs.	Rs.	Rs.	Rs.
Bio-chemistry	3,04,056	—	34,000	3,38,056
Botany	3,23,687	667	31,345	3,54,365
Chemistry	4,01,173	—	34,955	4,36,128
Geography	1,66,592	—	4,825	1,71,417
Physics (including Workshop)	4,57,901	—	38,528	4,96,429
Statistics	89,821	—	2,069	91,890
Zoology	2,43,790	—	28,984	2,72,774
Total	19,87,020	667	1,74,706	21,61,059

The Geology Department is housed in the Faculty of Technology and Engineering and has spent Rs. 70,269 for the purchase of equipment in the year 1963-64 through this Faculty.

#### 6. Publications of the Members of the Staff and Students

Sr. No.	Author	Title	Name of Journal wherein published
1	V. K. Shah and C. V. Ramkrishnan	( i ) Nutritional requirements of <i>A. niger</i> cultivated in citric acid	Enzymologia <b>25</b> , 367, 1963
		( ii ) Metabolic changes during citric acid utilization by <i>A. niger</i>	Enzymologia <b>26</b> , 33, 1963
		( iii ) Isocitrate lyase in <i>A. niger</i>	Enzymologia <b>26</b> , 44, 1963
		( iv ) Acetyl-CoA Kinase in <i>A. niger</i>	Enzymologia <b>26</b> , 52, 1963
2	M. G. Karmarkar, R. Rajalakshmi and C. V. Ramakrishnan	( i ) Effect of dietary protein and fat supplementation on protein, fat and essential amino acid content of breast milk	Acta paediatrica <b>25</b> , 473, 1963
		( ii ) Activities of certain milk enzymes in relation to dietary fat intake	Acta paediatrica <b>52</b> , 454, 1963
3	A. D. Deodhar, R. Rajalakshmi and C. V. Ramkrishnan	( i ) Effect of Dietary Vitamin supplementation on contents of breast milk	Acta paediatrica <b>53</b> , 42, 1964
		( ii ) Lactic and Malic dehydrogenases and Xanthine Oxidase in Breast milk and their variation with the progress of location and Dietary vitamin supplementation	Acta paediatrica <b>53</b> , 101, 1963
4	P. N. Raina and C. V. Ramakrishnan	( i ) Changes with Glucose, Lactic Acid and Keto acid content of the medium during cultivation of normal, neoplastic, new born and regenerating rat liver	Oncologia, 1964
		( ii ) Comparative studies on the activities of certain enzymes of carbohydrate metabolism in normal, neoplastic, new born and regenerating liver	Oncologia, 1964

Sr. No.	Author	Title	Name of Journal wherein published
		(iii) Changes in the composition of culture medium with regard to orginine, glutamine, glutamic acid and alanine during cultivation of normal, neoplastic, new born and regenerating liver	Oncologia, 1964
		(iv) Comparative studies on the activities of certain enzymes of amino acid metabolism in normal, neoplastic, newborn and regenerating liver	Oncologia, 1964
5	S. Subhlaxmi and R. Rajalakshmi	Effect of fenugreek supplementation on the biological value of Rice and Black gram dhal	Ann. Biochem. and Exptl. Med., 1964
6	S. D. Sabnis	(i) Cyperaceae of Gujarat (ii) A key to the identification of the Cyperaceae of Gujarat	Bull. Bot. Surv. India Vol. 4, 1962 (out in 1964)
7	A. R. Chavan and S. N. Padate	Occurrence and Distribution of Ceratopteris thalictroides (Linn.) Brough in Gujarat State (India)	M. S. University Journal Vol. XII: 3 November, 1963
8	A. R. Chavan and Y. S. Deshmukh	(i) Floral organogeny of Gmelina hystrix Schult (ii) A contribution to the Floral Organogeny and ontogeny of extra-floral nectaries in Holmskioldia	M. S. University Journal Vol. XII: 3 November, 1963 M. S. University Journal Vol. XII: 3 November, 1963
9	Suresh Sethna and K. P. Mathai	Chloromethylation of some Phenolic compounds	Jour. Ind. Chem., Soc., 1963, 40, 347
10	Suresh Sethna and R. H. Mehta	(i) Studies on 8-Hydroxycoumarin (ii) Beekmann Rearrangement of some C-Acylcoumarins	Jour. Ind. Chem. Soc., 1963, 40, 562 Jour. Ind. Chem. Soc., 1964, 41, 122
11	Suresh Sethna and K. N. Trivedi	Studies in the synthesis of Coumarin-a-pyrones and furo-coumarins	Jour. Ind. Chem. Soc., 1963, 40, 562

Sr. No.	Author	Title	Name of Journal wherein published
12	V. A. Janaki	Political Geography of Malaysia Archipelago	Faculty of Science Magazine, 1963
13	N. S. Pandya and A. R. Balasubramanian	(i) Some interesting growth features on Antimony crystals (ii) Growth Spirals and closed loops on Zinc mono-crystals	Ind. Jour. of Pure and App. Physics 1, 266, 1963 Current Science, 32, 542, 1963
14	Shri S. Z. R. Hashmi	Measurements of life-time of minority carriers by chronograph technique	Ind. Jour. of Pure and App. Phy. 1, 408, 1963
15	R. V. Joshi	Phosphorescence decay of X-ray irradiated KCl: Tl phosphors	J. Phys. Chem. Solids 25, 135, 1963
16	M. M. Patel	Vibrational analysis of the B <sup>2</sup> -X <sup>2</sup> system of NS	Zeit. F. Phys. 173, 347, 1963
17	M. M. Patel and S. P. Patel	Electronic Transition Moment variation of Cro molecule	Jour. of the M. S. Univ. of Baroda Vol. XII No. 3, 39, 1963
18	R. G. Edkie	Heat transfer from fine wires to the surrounding water under the influence of ionic currents	Ind. Jour. of Pure and Applied Phy. 1, 431, 1963
19	B. K. Shah and C. G. Khatri	(i) Maximum Likelihood Estimation of Truncated Chidistributed Radial Error from Grouped observation (ii) Further Investigation in fitting $y =$	Vidya Vol. VI (2) October, 1963 J.I.S.A. Vol. I (4) October, 1963
20	Indira Bhanot and R. C. Patel	Statistical Summary of Medical Examination Reports of the Students of M. S. University of Baroda, 1961-62	Published by M. S. University of Baroda, 1964
21	B. K. Shah	The Method of Moments applied to a mixture of two logistic populations	M. S. University Journal Vol. XII No. 3, November, 1963

Sr. No.	Author	Title	Name of Journal wherein published
22	B. K. Shah and P. H. Dave	A Note on Log-Logistic Distribution	M. S. University Journal Vo. XII No. 3, November, 1963
23	N. M. Bhatt and P. H. Dave	Fitting of Exponential Transformation of Normal variate	M. S. University Journal Vol. XII No. 3, November, 1963
24	B. K. Shah and V. K. Venkatraman	A note on Modified Poison Distribution	Metron Vol. XXII, 1964
25	N. M. Bhatt	( i ) Growth and Development of M. S. University of Baroda 1949-1963	Souvenir All India Educational Conference, Baroda, December, 1963
		( ii ) A chapter on Statistics in the Book on Physiology Edited by Dr. J. D. Pathak	Published by Gujarat State Government, 1964
26	J. C. George and P. Thomas Iype	The mechanism of hatching in the chick	'PAVO', Vol. 1, No. 1, pp. 55-56, 1963
27	D. V. Naik	Seasonal variation in the metabolites of the liver of the Rosy Pastor, <i>Sturnus roseus</i> (Linnaeus)	'PAVO', Vol. 1, No. 1 pp. 44-47, 1963
28	D. B. Dixit	Notes on a case of redvented bulbul <i>Pycnonotus cafer</i> (Latham)	'PAVO' Vol. 1, No. 1, pp. 19-31, 1963
29	A. K. Das	On the honey sucking habit of the purple sunbird, <i>Nectarinia asiatica</i> (Latham)	'PAVO', Vol. 1, No. 1, pp. 60-63, 1963
30	R. V. Shah	The neck musculature of a oryptodire (Deirochelys) and a pleurodire (Chelodina) compared	Bull. Mus. Comp. Zool. Harvard, Vol. 129, No. 6, 1963
31	J. C. George and N. M. G. Bhakthan	( i ) In Vitro lipase activity and the oxidation of butyrate by the honey-bee flight muscle	J. Insect Physiol. Vol. 9, pp. 311-315, 1963

Sr. No.	Author	Title	Name of Journal wherein published
		( ii ) Intracellular distribution of lipase and succinic dehydrogenase in the flight muscle of beetle, <i>Heliocopria bucephalus</i> fabr	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 47-55, 1963
		( i ) Observation on the biology of the dermestid beetle, <i>Anthrenus vorax</i> W. under laboratory conditions	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 1-14, 1963
32	K. S. S. Nair	( ii ) On the presence of a spermathecal gland in <i>Anthrenus vorax</i> (Waterhouse)	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 78-79, 1963
		Phosphorylase 'a' in bird and bat breast muscles	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 15-23, 1963
33	N. V. Vallyathan and J. C. George	Cytoplasmic (Non-mitochondrial) lactic and succinic dehydrogenases in the red and white muscle fibres	J. Anim. Morph. Physiol., Vol. 10, No. 1, pp. 24-30, 1963
34	J. C. George, A. K. Susheela and N. V. Vallyathan	Succinic dehydrogenase in the muscles of a few representative types of insects	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 56-62, 1963
35	N. M. G. Bhakthan and J. C. George	The cellular organization and certain metabolite and enzyme contents of the Goat Diaphragm	J. Anim. Morph. Physiol., Vol. 10, No. 1, pp. 63-68, 1963
36	A. K. Susheela	Lipase activity of the heart muscle in normal pigeon nestlings and adults under experimental conditions	J. Anim. Morph. Physiol. Vol. 10, No. 1, pp. 69-73, 1963
37	P. Thomas Iype	Histochemical localization of myoglobin in the pigeon breast muscle	J. Anim. Morph. Physiol., Vol. 10, No. 1, pp. 74-77, 1963
38	N. J. Chinoy		

Sr. No.	Author	Title	Name of Journal wherein published
39	J. C. George and P. M. Ambadkar	Histochemical demonstration of lipids and lipase activity in rat testis	J. Histochem. Cytochem. Vol. 11, No. 3, pp. 420-425, 1963
40	J. C. George	Some observation on the breeding behaviour of the Indian Robin, <i>Saxicola daflucate</i> (Linnaeus)	'PAVO', Vol. 1, No. 2, pp. 71-78, 1963
41	R. M. Naik and Abdur Razack	Studies on the House Swift, <i>Apus affinis</i> (G. E. Gray). 1. Nest: Its location and architecture	'PAVO', Vol. 1, No. 2, pp. 90-98, 1963
42	Shashi Naik and R. M. Naik	Studies on the House Swift, <i>Apus affinis</i> (G. E. Gray). 2. Quantitative assessment of the regional distribution of mucus used in the nest	'PAVO', Vol. 1, No. 2, pp. 99-102, 1963
43	D. V. Naik and J. C. George	Histochemical demonstration of increased corticoid level in the adrenal of <i>Sturnus roseus</i> (Linnaeus) towards the migratory phase	'PAVO', Vol. 1, No. 2, pp. 103-105, 1963
44	N. V. Vallyathan	On the lipid content and lipase activity in the breast muscle of <i>Sturnus roseus</i> (Linnaeus)	'PAVO', Vol. 1, No. 2, pp. 106-109, 1963
45	R. M. Naik	On the fibre diameter of some of the flight muscles of the Blue Rock Pigeon. <i>Columbia livia</i> Gmelin	'PAVO', Vol. 1, No. 2, pp. 124-125, 1963
46	N. Shivnayanan and R. M. Naik	Does the male redvented bulbul, <i>Pycnonotus cafer</i> (Linnaeus) incubate?	'PAVO', Vol. 1, No. 2, pp. 128-129, 1963
47	A. K. Susheela and J. C. George	Respiratory quotient of the rat diaphragm	Can. J. Biochem. Physiol., Vol. 41, 2221-2223, 1963
48	U. L. Wadekar	The diet of the Indian Bull frog, <i>Rana Tigrina</i> (Daud)	J. Bombay Nat. Hist. Soc., pp. 1-6, 1963

Sr. No.	Author	Title	Name of Journal wherein published
49	J. C. George and D. V. Naik	Haemotopietic nodules as centres of fat synthesis in the liver of the migratory starling	Quart. J. Micr. Sci. Vol. 104, pp. 393-400, 1963
50	B. S. Yadav	On a theorem of Tilchmarsh	de l' institut Mathematique, Tom, 16 (2), 1962.

### 7. Co-curricular Activities

(1) Societies: The Societies in the Faculty formed according to the subject of studies arranged a number of lectures, discussions, seminars, symposia, etc.

(2) Film Shows: Film shows were arranged to supplement class room teaching and promote general education. A number of films on scientific and technical subjects, lent by Russian, German, French Consulates, the U.S.I.S. and the B.I.S. were shown under the auspices of different Societies.

### 8. Scholarships

(i) Two undergraduate scholarships in Physics and Chemistry and two post-graduate scholarships in Zoology were awarded by the Atomic Energy Establishment of the Government of India.

(ii) Five post-graduate Research Scholars—three in Chemistry, one in Botany and one in Zoology—are awarded by the University Grant Commission.

(iii) One Post-graduate Research Scholarship is awarded by the University.

(iv) One Post-graduate Merit Scholarship is awarded by the Government of India.

(v) Six Junior Research Fellowships are awarded by the Council of Scientific and Industrial Research—two in Mathematics, two in Physics, one in Chemistry and one in Zoology.

## CHAPTER X—FACULTY OF EDUCATION AND PSYCHOLOGY

### 1. Courses of Studies

There is provision for the following courses:

(1) B.A., M.A. and Ph.D.	Psychology
(2) B.Ed., M.Ed. and Ph.D.	Education and Educational Administration
(3) Post-graduate Diplomas	( i ) Educational Administration ( ii ) Guidance and Counselling ( iii ) Applied Linguistics
(4) Undergraduate Diplomas	( i ) Education ( ii ) Early Childhood Education

Teachers of the Faculty also carried out teaching assignments in other Faculties and Institutions, where Psychology and Education are included in their courses.

### 2. Number of Students

The number of students enrolled in the various courses at the commencement of the year 1963-64 was as follows:

	Men Students	Women Students	Total
<i>A. Undergraduate Diploma:</i>			
( i ) T.D.	18	21	39
( ii ) Diploma in Early Childhood Education	1	7	8
Total	19	28	47
<i>B. Degree:</i>			
( i ) B.Ed.	68	45	113
( ii ) S.Y.B.A. ( Psychology )	10	22	32
( iii ) T.Y.B.A. ( Psychology )	8	17	25
Total	86	84	170
<i>C. Post-graduate Diploma:</i>			
( i ) Junior Diploma in Guidance and Counselling	2	2	4
( ii ) Senior Diploma in Guidance and Counselling	6	1	7
( iii ) Junior Diploma in Applied Linguistics	—	—	—

	Men Students	Women Students	Total
( iv ) Senior Diploma in Applied Linguistics	—	—	—
( v ) Junior Diploma in Educational Administration	4	4	8
( vi ) Senior Diploma in Educational Administration	5	—	5
Total	17	7	24
<i>D. Post-graduate Degree:</i>			
( i ) M.Ed. ( Thesis )	—	—	—
( ii ) Junior M.Ed. ( by papers and dissertation )	3	3	6
( iii ) Senior M.Ed. ( by papers and dissertation )	14	5	19
( iv ) Junior M.A. ( Psychology )	3	3	6
( v ) Senior M.A. ( Psychology )	1	4	5
Total	21	15	36
<i>E. Ph.D.</i>	23	8	31
Grand Total	166	142	308

### 3. Staff

During the year, the staff of the Faculty consisted of three Professors, six Readers, fifteen Lecturers, one Part-time Lecturer, two Tutors and one Demonstrator, and ten Class III and eight Class IV servants. In addition to the above, a Co-ordinator was in charge of the Department of Extension Programmes in Secondary Education. In the University Guidance and Counselling Centre there are one Counsellor, one Psychologist, one Technical Assistant, one Research Assistant, one Clerk and one Attendant.

This Faculty has achieved a co-operative basis of building up collaboration with Universities outside India. The University of Frankfurt has agreed to take one of the staff members of this Faculty for advanced studies and research.

### 4. Library

The Faculty Library was amalgamated with the Shrimati Hansa Mehta Library and the students make use of that Library. The Faculty also maintains small Departmental Libraries, which need considerable strengthening. The Reading Room which is retained, provided facilities for general reading.

### 5. Museum, Laboratory, etc.

#### (1) Museum:

The Faculty Museum contains a large collection of teaching aids for illustrating class-room teaching. During 1963-64, as many as 168 projects prepared

by students under the guidance of the members of the staff were added. According to the present practice every student under training prepares a set of illustrative aids for teaching a selected topic or a series of topics. Selected projects were added to the Museum.

Sr. No.	Item	Cost of equipment etc. as on 1-4-1963		Cost of equipment written off during the year		Cost of equipment added during the year		Cost of equipment as on 31-3-1964	
		Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1.	Museum	12,382	79	350	00	—		12,032	79
2.	Teaching Aids	800	00	200	00	300	00	900	00

### (2) The Psychological Laboratory:

The Laboratory is equipped with a rich collection of instruments required for psychological experiments. A special section of the laboratory deals with mental tests and includes a good deal of modern material required for testing intelligence, aptitude, achievements and personality. With the financial assistance of the University Grants Commission, new additions were made to the apparatus of the laboratories during the year. The cost of the equipment of the laboratory is given below:

Sr. No.	Item	Cost of equipment as on 1-4-1963		Cost of equipment written off during the year		Cost of equipment added during the year		Cost of equipment as on 31-3-1964	
		Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
	Laboratory	54,171	69	952	87	1,783	51	55,002	33

### (3) Audio-Visual Programme:

The Faculty conducts a course in Audio-Visual Education as an integral part of its teacher education programme. The course is conducted at two levels, viz. B.Ed. and T.D. as a compulsory subject. All the B.Ed. and T.D. students are trained in the operation and maintenance of the movie projector, filmstrip projector, episcope, tape recorder, etc. Moreover, an intensive course in the preparation and use of Audio-Visual aids is conducted for those B.Ed. and T.D. students, who offer Audio-Visual Education as a field of specialization. In co-operation of the Extension Department, seminars and refresher courses in Audio-Visual Education are also conducted for inservice teachers.

The cost of the articles for Audio-Visual Aids is given below:

Sr. No.	Item	Cost of equipment as on 1-4-1963		Cost of equipment, etc. written off during the year		Cost of equipment, etc. added during the year		Cost of equipment as on 31-3-1964	
		Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
	Audio-Visual Aids	11,898	25	60	00	5,521	35	17,359	60

## 6. Publications

The following were the main publications of the members of the staff during the year 1963-64:

Sr. No.	Name	Title	Name of the publisher with month of publication
<b>(A) Books:</b>			
1.	Professor S. N. Mukerji	Secondary School Administration	Acharya Book Depot, Baroda, August, 1963
2.	Dr. (Kum.) P. Pasricha	Educational Psychology	University Publishers, Jullunder, Delhi, Ambala, 1963
<b>(B) Brochures:</b>			
1.	Professor S. N. Mukerji	Evaluating Pupil Progress	Extension Service Department, Faculty of Education and Psychology, Baroda, December, 1963
2.	Professor M. S. Patel and Shri J. J. Mody	Gujarati Consonants	Faculty of Education and Psychology, Baroda, March, 1964
3.	Dr. A. S. Patel	Interviewer Bias—An Experimental Study of some of its Sources	M. S. University Journal, March, 1964
4.	Dr. (Kum.) P. Pasricha and Dr. T. C. Schreck	Developing Guidance Services for Secondary Schools	Department of Extension Services, December, 1963
5.	Dr. (Kum.) P. Pasricha, Shri S. N. Banerji and Kumari R. M. Pagedar	A Report of the Administration of Family Attitude Test to Sixty Remand Home Children	Department of Extension Services, May, 1963
6.	Dr. (Kum.) P. Pasricha	Lack of Proper Sex Education and the Student Problems	Department of Extension Services, July, 1963
<b>(C) Articles and Papers:</b>			
1.	Professor S. N. Mukerji	(i) Education and Health	Your Health, M. S. University, August, 1963

Sr. No.	Name	Title	Name of the publisher with month of publication
		( ii ) Education in a Technical Age	Journal of Education and Psychology, October, 1963
2.	Professor M. S. Patel	Contribution of Education to understanding between people	Education and Psychology Review, April, 1963
3.	Dr. (Smt.) P. Phatak	( i ) Children's Art Production-I	Education and Psychology Review, Vol. 3, No. 3, July, 1963
		( ii ) Children's Art Production-II	Education and Psychology Review, Vol. 3, No. 4, October, 1963
4.	Dr. S. M. Divekar	Swami Vivekananda's Concept of Education	Education and Psychology Review, April, 1963
5.	Dr. M. A. Quraishi	Education in Gujarat	38th All-India Educational Conference Souvenir, December, 1963
6.	Sarvashri S. C. Parikh and G. B. Shah	International Understanding through Science Education	The Progress of Education, Poona, October, 1963
7.	Shri G. B. Shah	( i ) Our Linguistic Problem	Educational India, Vol. XXIX, No. 10, April, 1963, Vidya-bhavan Masulipattam.
		( ii ) International Understanding through Science Education	Educational India, Vol. XXX, No. 10, December, 1963 and The Progress of Education, October, 1963
		( iii ) The Teaching of Arithmetic	Secondary Education, Ministry of Education, Government of India, June, 1963.

The Faculty continues to publish an educational quarterly entitled "Education and Psychology Review". It deals with recent researches on education and psychology. The Faculty also publishes "An Annual Bulletin" and "An Abstract of Summaries of Theses and Dissertations" submitted by Ph.D., M.A. (Psy.) and M.Ed. students every year.

A New Quarterly known as the 'Social Studies Teacher' has been started this year. It discusses day-to-day problems of the teaching of History, Geography, Civics and other subjects. This quarterly is financed by the Ministry of Education, Government of India.

### 7. The Centre for Advanced Study in Education

The University Grants Commission felt that in addition to raising the standard of teaching and research in our universities, it is necessary to build up at a much higher level some university departments where good work is being done, so that work of a more advanced kind can be carried out in them. In pursuance of this idea, the Commission has adopted a policy of giving generous help in terms of competent staff, equipment and accommodation to such university departments where work of high quality is being carried on. The selection of these Centres is made by an expert committee appointed by the Commission, and some twenty centres are likely to be established during the Third Plan Period.

The Commission selected the Faculty of Education and Psychology, Baroda for the establishment of the Centre for Advanced Study in Education, in view of the good work done by the Faculty in the field of education. A large number of research papers and original works have been published by teachers and students of this Faculty. The Centre will concentrate its attention on 'Mental Testing', 'Language Learning' and 'Curriculum' during the Third Plan Period.

### 8. Literary, Cultural and Other Activities

#### (1) Department of Extension Services:

The Department has completed eight years and it is entering the ninth year. As compared to the first three or four years, the pressure of schools on the department has increased. There were persistent demands from different schools for seminars and courses and other assistance from the department. The Centre launched upon some new programmes such as (1) Improvement of science education, (2) Organising intensive school programme, (3) Building up groups of schools as a nucleus for programmes, meetings, one day workshops, etc., (4) Publishing source books in different subjects on the basis of work of unit planning in the subjects, (5) Starting experimental projects and building up a group of schools separately, (6) Joint publications and (7) Starting research work on "Impact of Extension Programme on Secondary Schools".

The department also carried out its normal activities of organising courses, exhibitions, symposia, zonal workshops, school-visits, providing library and

audio-visual services, guidance in various fields and useful publications to various schools.

(2) *The Secondary School Counselling Centre:*

The Centre undertook a number of activities like career talks, talks on educational guidance, career conference, case studies of students, testing of intelligence, etc. in the schools of Baroda and schools of off-campus centres for the year.

(3) *University Students Counselling Centre:*

The Student Counselling Centre which was established in year 1959 carried out its usual activities of providing guidance to students in their vocational, educational and academic problems. It has rendered individual guidance to about seven hundred students in their various problems. It completed administration of the Family Attitude Test to sixty normal children and to an equal number of delinquent and destitute children from the Remand Home. The report and the results have been published in pamphlet forms by the Centre. A third pamphlet reporting case histories based on actual records at the Centre has been also published by the Centre as 'Lack of Proper Sex Education and the Student Problems'. The Centre organised a three-day workshop in guidance and imparted basic theoretical orientation in guidance coupled with some practical information of the work involved to thirty-five teachers from secondary schools.

The Centre administered 'Abstract Reasoning Test' to the students of Home Science Faculty with a view to prepare norms for Indian students. It has also undertaken construction of an Interest Inventory for the Faculty of Home Science. It has completed all pre-pilot testing of the Translation and Adaptation of Wechsler Adult Intelligence Scale.

Dr. T. C. Schreck, Visiting Fullbright Professor from Indiana University, U.S.A. assisted in making the programme of the Centre dynamic. He also directed a research study for predicting academic success in Home Science Faculty.

(4) *Rural Education:*

During the year 1963-64 Waghodia was selected as a centre for the activities of the Rural Education batch of students. They undertook a socio-economic survey of the town of Waghodia.

(5) *Conference, Seminar, Training Course, etc. :*

(i) The All-India Federation of Educational Associations held its thirty-eighth Annual Conference at Baroda from the 25th to the 31st December, 1963. The M. S. University of Baroda acted as host to the delegates coming from all parts of India.

(ii) A seminar to discuss the problems of Teacher Education was held from the 2nd to the 8th March, 1964 for the discussion of the vital problems of the training of secondary school teachers during the Fourth Five Year Plan.

(iii) The Department of Education arranged training courses for the teachers of English in the techniques and procedure of the structural syllabus in English. Such training will be very beneficial to the cause of English teaching in the State.

9. **Co-curricular Activities**

(1) *Audio-Visual Education:*

The Audio-Visual Department arranged a number of film shows during the year. The students of Audio-Visual Education arranged a number of bulletin board displays, prepared slides and other types of visual and auditory aids as part of their field work. They participated in setting up the All-India exhibition of books and teaching aids during the 38th All India Educational Conference held at Baroda in the last week of December, 1963.

(2) *Discussion Forum:*

This Forum was started in 1962 with definite objectives. Firstly, with a view to enable students to participate in informal and frank discussions, regarding various types of the problems of the day. Secondly, with a view to call eminent persons to initiate discussions and to know their views on the problems. This year, the Forum met for several times when following problems were discussed: (1) Attitude Scale, (2) Psychophysical Methods, (3) Aptitude Tests, Achievement Tests and Intelligence Tests.

10. **Other Important Events**

One of the alumni Shri Ishwarbhai J. Patel has been appointed as Vice-Chancellor, Sardar Vallabhbhai Vidyapeeth, Vallabh Vidyanagar and another Shri N. S. Trivedi received the National Award for Secondary School Teachers, from the Government of India.

## CHAPTER X-(A)—UNIVERSITY EXPERIMENTAL SCHOOL, BARODA

## 1. Courses of Study

The school continued to follow the syllabus prescribed by the Education Department of the Gujarat State. In the beginning of the year the syllabus is planned in the form of study units with relevant indoor and outdoor activities.

## 2. Experiments and Activities

(1) *The school undertook the following project studies:*

No.	Topic	Subject	Class
1.	Indo-American Studies	Social Studies	X
2.	Indo-Australian Studies	Social Studies	IX
3.	Guru Deva Tagore	Hindi	VIII

(2) *Current Topics:*

The students collected material from news-papers and periodicals, studied and prepared reports, charts, maps, etc., on current topics, viz. (1) Malayasia and (2) Nagaland. The reports were submitted and discussed fully in the school assembly.

(3) *International Understanding:* The school has joined New Education Fellowship, an organisation sponsored by UNESCO for the international understanding and co-operation. The main approach was to create an understanding of U.S.A. and Australia, since the understanding of peoples and countries, their likes and dislikes, way of living, hopes and aspirations go a long way in creating a climate of international understanding.

(4) *Project Study (Hobbies):* Wood Craft is one of the hobbies provided by the school. The pupils of this hobby completed the project of preparing 50 desks for the music hall.

(5) *Library:* A project study with a view to investigate and encourage reading habits was continued in the classes VI and VII during the year.

(6) *Major projects:* The school started implementing the project of teaching General Science through activities in class IX. The financial aid was given by the Directorate of Extension Service Programme for Secondary Education, New Delhi.

(7) *Action Research:* The problem of general looseness among the pupils with respect to some disciplinary behavioural patterns was tackled through action research by the school and the staff.

(8) *Science Club:* The Science Club participated in the science fairs organised by the Education Department and by the Department of Extension Services of the Faculty of Education and Psychology and won prizes for (i) Improvised Models, (ii) Essays and (iii) Models.

(9) *Extra Examinations, Tests and Competitions:* A good number of pupils from this school appeared at different extra examinations such as Elementary Grade Drawing, Intermediate Grade Drawing, Bal Chitrakala, Abhinava Chitrakala, Music, Sanskrit Prarambha, Pravesh, Shistha Vachan, etc. and brought a good result at the examinations. They participated in various Painting and Art and other competitions and exhibitions and carried away prizes for Group song, recitations, debates, etc. Two girl students of the school got prizes—one for obtaining the highest number of marks in Physics and Chemistry and the other standing first among girls in the S.S.C. examination at the Baroda Centre. The school also presented the dance drama 'Ek Hati Rupa' in the Gujarat Rajya Bal Natya Mahotsava.

## 3. Number of Students

The school had at the close of the year 436 students—245 boys and 191 girls.

## 4. Staff

The staff of the school consisted of a Principal, 19 teachers, 5 class III and 7 Class IV servants.

## 5. Library and Reading Room

The school library is now properly equipped according to the needs of the school. To the existing stock of 12,000 books in the library, 571 books worth Rs. 1,200 were added during the year under report. The school continued to subscribe to 26 journals and magazines of educational approach.

## 6. Other Activities and Achievements

(1) The school participated in the 38th All India Educational Conference. The school children gave a cultural programme to the conference.

(2) A group of children have continued to attend the University hobby centre for photography and electronics.

## 7. Activities and Publications of the Staff

(1) The Principal and some teachers of the school were nominated as members on the Syllabus Revision Committees, Courses Committees, etc. of the S.S.C. Examination Board of the Gujarat State.

(2) The Principal and a few teachers of the school attended Summer School, conducted and participated in seminars, gave talks in the career conferences, A.I.R. School Education Services, etc.

(3) The following are the publications by the members of the staff:

Name	Article	Where published
( i ) Kumari I. S. Chokshi	पुस्तकालयतुं आयोजन	सारस्वत
( ii ) Shrimati M. Amin	क्रियात्मक संशोधन—एक प्रयोग	सारस्वत
( iii ) Kumari R. M. Tachakra and Shri S. R. Patel	समाजविद्याना संकलित एकनो	नुतन शिक्षण
( iv ) Sarvashri A. J. Desai and M. M. Amin	Science study Kit for school	Publication No. 55, Department of Ex- tension Services, Faculty of Educa- tion and Psycho- logy.

## CHAPTER XI—FACULTY OF COMMERCE

### 1. Courses of Studies

There is provision for the following courses:

- (1) Ph.D. Banking, Business Administration, Business Finance, Commerce, Co-operation, Economics
- (2) M.Com. Advanced Economic Theory and Organised Markets, Agricultural Economics Advanced Accounting, Actuarial Science and Business Organisation, Banking, Co-operation, Cost and Management Accounts, Econometrics, Finance, Law relating to Industrial Relations and Income Tax, Organised Industries, Statistics, Trade, Transport
- (3) B.Com. Accounting and Auditing, Advanced Statistics, Banking, Business Management, Business Organisation, Business Administration, Co-operation, Cotton Industries, Mercantile Law, Public Finance, Transport,
- (4) Post-graduate Diploma Banking, Co-operation
- (5) Diploma Co-operation.

### 2. Number of Students

The classwise distribution of students during the year is as follows:

Class	Men Students	Women Students	Total Students
Diploma in Co-operation ( Under-graduate )	*2	—	2
F.Y.B.Com.	374	13	387
S.Y.B.Com.	327	13	340
T.Y.B.Com.	332	10	342
Post-graduate Diploma in Banking	13	—	13
Post-graduate Diploma in Co-operation	1	—	1
Junior M.Com.	31	—	31
Senior M.Com.	15	2	17
Ph.D.	1	—	1
Total	1096	38	1134

\* This excludes 4 students of S.Y.B.Com. who have been permitted to join the Under-graduate Diploma in Co-operation.

### 3. Staff

During the year, the Staff of the Faculty consisted of 1 Professor, 6 Readers and 11 Lecturers, 3 Part-time Professors and 4 Part-time Lecturers, 6 Class III and 11 Class IV servants. The teaching work in the subjects of English, Mercantile Law, Statistics, Mathematics and Local Administration was looked after by the English, Law, Statistics, Mathematics and Politics Departments respectively. Some teachers of this Faculty were taking periods in the Faculty of Technology and Engineering.

### 4. Publications by the Members of the Staff

#### Articles:

Sr. No.	Name of the Teacher	Subject of Paper or Articles	Name of the Journal wherein published with month of publication
1	2	3	4
1	Professor B. G. Shah	( i ) Co-operative Credit Movement in Gujarat	Journal of the Gujarat Research Society, April, 1963
		( ii ) Investment Policy of Scheduled Banks (A study in trends)	Journal of M. S. University of Baroda, July, 1963
2	Dr. D. K. Shukla	( i ) The Budget and its Economic Implications	Journal of Gujarat Research Society, April, 1963
		( ii ) The Genesis of our Balance of Payments Disequilibrium	Journal of M. S. University of Baroda, July, 1963
		( iii ) On Rethinking About Our Monetary Policy	All India Economic Conference Number, December, 1963
		( iv ) The Break-Even Analysis—A Theoretical Modification	The Management Review, January, 1964

### 5. Literary, Cultural and Other Activities

Under the programme of the extension work by the University teachers, Shri C. S. Rathod, Lecturer in Co-operation gave a lecture on "Consumers' Co-operatives" in the Basic Training College for Men on the 23rd March, 1964.

### 8. Co-curricular Activities

Besides the Faculty Students' Association, the students of this Faculty organised the following Associations:

( i ) Economics Students' Association, ( ii ) Banking Students' Association, ( iii ) Accountancy Students' Association, ( iv ) Co-operation Students' Association, ( v ) Commerce Society.

### 9. Other Important Events

( 1 ) The Dena Bank Trophy Debate was held on the 27th September, 1963 under the Chairmanship of Professor B. G. Shah.

( 2 ) The Faculty organised on behalf of the Committee for Co-operative Training, Delhi, an Inter-Faculty Prize Debate on Co-operation.

## CHAPTER XII—FACULTY OF MEDICINE

### (A) MEDICAL COLLEGE

#### 1. Courses of Studies

The college conducts courses leading to the degrees of M.B.B.S. as well as the following post-graduate degrees and diplomas.

##### (1) Degree

	<i>Subject</i>
M.D.	Medicine, Physiology, Pharmacology, Pathology, Obstetrics and Gynaecology
M.S.	Surgery, Anatomy, Orthopaedics
Ph.D.	Pathology, Pharmacology, Physiology, Biochemistry
M.Sc.	Anatomy, Pathology, Pharmacology, Physiology, Biochemistry

##### (2) Diploma

	<i>Subject</i>
D.G.O.	Diploma in Obstetrics and Gynaecology
D.O.	Diploma in Ophthalmology
D.A.	Diploma in Anaesthesia
D.C.P.	Diploma in Pathology
T.D.D.	Diploma in Tuberculosis Diseases
D.L. & O.	Diploma in Otolaryngology
D.V. & D.	Diploma in Venereal Diseases
D.M.R.E.	Diploma in Medical Radiology and Electrology
D.Ped.	Diploma in Paediatrics

Most of these have been inspected and recognised by the Medical Council of India.

#### 2. Number of Students

##### (1) Degree—M.B.B.S.

	<i>Men</i>	<i>Women</i>	<i>Total</i>
1st year	90	29	119
2nd year	24	4	28
3rd year	55	13	68
4th year	55	9	64
5th year	71	19	90
Total	295	74	369

##### (2) Post-graduate Degrees

	<i>Men</i>	<i>Women</i>	<i>Total</i>
M.D. ( Medicine )	15	1	16
M.D. ( Path )	1	1	2
M.D. ( Pharma )	1	—	1
M.D. ( O.G. )	7	9	16
M.S. ( Sur )	14	1	15
M.S. ( Ortho. )	2	—	2
M.Sc. ( Pharma )	4	—	4
M.Sc. ( Physio. )	—	—	—
M.Sc. ( Patho )	4	—	4
Ph.D.	1	—	1
Total	49	12	61

##### (3) Post-graduate Diplomas

	<i>Men</i>	<i>Women</i>	<i>Total</i>
D.L. & O.	15	—	15
D.V. & D.	1	—	1
T.D.D.	4	—	4
D.C.P.	2	—	2
D.G.O.	9	9	18
D.O.	2	—	2
D.A.	4	—	4
D.Ped.	1	—	1
D.M. & R.E.	4	—	4
Total	42	9	51
Grand Total	386	95	481

#### 3. Staff

The staff of the College and Hospital consists of a Dean, 9 Professors, 5 Assistant Professors, 12 Senior Lecturers, 23 Junior Lecturers, 12 Honoraries, 19 Assistant Honoraries, 10 Full Time Specialists, 1 Matron, 10 Full Time Medical Officers, 33 Class III and 47 Class IV servants ( College )

#### 4. Library

Figures about the stock and the expenditure on the Library are as follows:

<i>S.No.</i>	<i>Particulars</i>	<i>Number</i>	<i>Cost in Rupees</i>
(1)	Books ( including back numbers of Journals as on 1-4-1963 )	9429	1,53,238-73
(2)	Books written off during the year	—	—
(3)	Books added during the year	692	11,051-49

S.No.	Particulars	Number	Cost in Rupees
(4)	Books as on 31-3-1964	10,121	1,64,290-22
(5)	Journals subscribed during the year	130	9,644-27
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for Library and/or Reading Room during the year	—	20,695-76

#### 5. Museum, Laboratories, Studios, Workshops, etc.

S. No.	Item	Cost of equipment as on 1-4-1963 Rs.	Cost of equipment etc. written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment as on 31-3-1964 Rs.
1	Museum	3,24,464-00	371-00	—	3,24,093-00
2	Laboratories	8,17,511-00	15,007-00	2,29,337-00	10,31,841-00
3	Studio	13,483-00	—	—	13,483-00
4	Workshop	—	—	—	—
		11,55,458-00	15,378-00	2,29,337-00	13,69,417-00

#### 6. Publications

S. No.	Name of the Teacher	Title	Name of the Journal wherein published
<i>Physiology Department</i>			
1	Dr. J. D. Pathak	( i ) Prayogik Kriyavignan ( Experimental Physiology )	Government Press, Baroda March, 1963
		( ii ) Aims of teaching Physiology in Medical Colleges in India	Jr. of Med. Edu. of India, Vol. II, No. 3, April, 1963
2	Dr. Y. B. Dixit, Dr. M. G. Amin and Dr. J. D. Pathak	Assessment of Mental Alertness after administration of various phenothiazines	Jour. Ind. Med. Assn. ( 12, 4, 173, 1964 February )
3	Dr. M. L. Pai	( i ) Gastric secretion effect of glucose on electrolytes on gastric juice and their relationship with its acidity and PH in human subjects	Ind. Jour. Med. Res. Vol. 51, No. 6, pp. 1088-1084, November, 1963

S. No.	Name of the Teacher	Title	Name of the Journal wherein published
<i>Anatomy Department</i>			
1	Dr. H. C. Srivastava	( i ) Conjoined Twins	Indian Journal of Medical Sciences Vol. 17, No. 8, August, 1963
		( ii ) A case of Iniencephalus with non-development of anterior body wall	Journal of Anatomical Society of India, December, 1963
<i>Pathology Department</i>			
1	Dr. B. A. Sayed and Dr. N. B. Parikh	Hydatid cyst of the Kidney	J. I. M. A., March, 1963
2	Dr. B. A. Sayed, Dr. S. P. Amin, Dr. S. H. Shah and Dr. T. B. Patel	Thalassaemia cases in Baroda	J. Tropical Paediatrics and African Child Health, 1963
3	Dr. M. N. Shah	Male or Female	Brit. Med. J. May, 1963
4	Dr. D. B. Balr, Dr. K. N. Sahgal and Dr. B. A. Sayed	The flourescent P.A.S. reaction	Ind. J. Path. and Bact. October, 1963
5	Dr. T. J. Desouza & Dr. B. A. Sayed	An Evaluation of Auricular appendate Biopsy	J. I. M. A. December, 1963
6	Dr. D. N. Shukla and Dr. S. K. Jaywant	Chemical Findings in Acute Alcoholic Intoxication	J. of M. S. Univ. Baroda, 1963
<i>Pharmacology Department:</i>			
1	Dr. S. D. Gokhale, Dr. V. V. Kelkar and Dr. O. D. Gulati	( i ) Some observations on the possible mediation of cabon tetrachloride hepatotoxicity through the central nervous system	Arch. Int. Pharmacodyn. 144, 423-431, 1963
		( ii ) Mechanism of the initialadren-ergic effects of bretylium and guanethidine	Brit. J. Pharmacol. 20, 362-377, 1963
		( iii ) Effect of bretylium and guane- thidine on some cholinergic effectors	Arch. Int. Pharmacodyn. 145, 243-253, 1963

S. No.	Name of the teacher	Title	Name of the Journal wherein published
2	Dr. S. D. Gokhale and Dr. O. D. Gulati	Effect of some blocking drugs on the pressor response to physostigmine in the rat	Pharmacol. 21. 273-284, 1963
3	Dr. H. M. Parikh	Effect of Bretylium and guanethidine on the hyperglycaemic action of adrenaline	Ind. J. Physiol. Pharmacol. Vol. 7, July, 1963

*Obstetrics and Gynaecology Department:*

1	Dr. T. V. Patel and Dr. (Mrs.) N. B. Swami	( i ) Use of Vacuum Extractor Report of 30 cases	J. of Obst. and Gyn. of India, Vol. XIII, No. 2, June, 1963
		( ii ) Granulose Cell Tumour with Fibromyoma of Uterus	J. of Obst. and Gyn. of India Vol. XIII, No. 3, September, 1963

*Preventive and Social Medicine Department:*

1	Dr. A. K. Niyogi	( i ) Influence of maternal factors on the weight of the human new born.	J. of the Ind. Med. Asson. Vol. 40, No. 2, 1963
		( ii ) Problems for Research in Health in Rural and small urban areas	Joul. of Gujarat Research Soc., 1963
		( iii ) Undergraduate medical training with special reference to the teaching of preventive and Social Medicine	Ind. Joul. of Med. Asson., 1963
2	Dr. A. N. Mukherjee, Dr. A. K. Niyogi and Dr. V. B. Shah	Prevalence of syphilic in Manic depressive Psychosis and Schizophrenia and its effects on the results of treatment	Ind. Joul. of Psychiatry, 1963

*Medicine Department:*

1	Dr. B. T. Dave	( i ) Eye Inrdvement in Diabetes Mellitus ( Madhumeha )	Jour. of Indian Diabetes Asson. 1963, July, Vol. 4
		( ii ) Panel Discussion on Diabetes Mellitus	Magazine J. G. M.G. Ayurvedor Medical College, 1963, Vol. 10

S. No.	Name of the Teacher	Title	Name of the Journal wherein published
		( iii ) Experiences with Bendroflnazide	Indian Practitioner, 1963, Vol. 16
		( iv ) Social Aspects of Diabetes Mellitus	Jour. of Asson. of Physicians of India
		( v ) Dynamics of protal circulation	Jour. of Asson. of Physicians of India, 1963, Vol. 11
		( vi ) Eye Inrdvement in Diabetes Mellitus	Medical Bulletin, Gujarat Medical Asson. 1963, Vol. 8

*Skin/V. D. Department:*

1	Dr. B. S. Verma	Hair digested by T. Montgrophytas	1963 Archieve of Dermatology Chicago, 87, 337-360.
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CHAPTER XII-(B)—SHETH UJAMSHI PITAMBARDAS  
AYURVEDIC RESEARCH UNIT

1. Staff

The staff of the Unit consists of a Head (Honorary), one Senior Research Vaidya, two Junior Research Vaidyas, one Research Medical Officer, a Chemist, a Statistician, one Research Assistant in Pharmacology, one Research Assistant in Chemistry, four class III and seven class IV servants. Dr. J. D. Pathak, Dean of the Faculty of Medicine, Baroda continued to work as the Honorary Head of the Unit during the year.

2. Function of the Unit

Research in Ayurveda is the sole object of this Unit. The Unit has a library, a museum of Indian medical herbs and minerals, a clinical laboratory, a Rasashala and an Out-patient Department also. 12 beds at the S.S.G. Hospital are placed at the disposal of the Unit for Ayurvedic clinical research.

3. Library

This year 4 new books have been added bringing the total to 2,597 books. 10 Ayurvedic journals were also subscribed to during the year.

4. Museum

50 groups of available medicinal herbs, each consisting of 10 drugs according to the Pharmacological classification and therapeutics of Charaka are arranged in this museum. Specimens of minerals and other useful drugs have also been kept. A section of collated literature-cum-publications of the Unit and a section of Ayurvedic Pharmacopoeial medicines (सिद्धौषधि विभाग) is also arranged. There are about 1,000 Ayurvedic specimens, 54 herbarium frames, 75 specimens jars of fresh herbs preserved in solution, 16 charts and maps. About 300 specimens have been collected for the Herbarium and are classified. A relief map of India, showing the distribution of important medicinal plants in India is also placed in the museum.

5. Research

(1) Out-patient Department:

During the year 6,976 patients attended the Unit for treatment.

(2) In-patient Department:

Clinical research: 20 patients were admitted and studied during the year.

(A) Clinical trials of well-known Ayurvedic drugs:

(i) Amavata-Sandhivata: Treatment of Rheumatoid Arthritis with pure Guggul. 15 cases are studied under this scheme.

(ii) Effect of Leech-application on anaesthetic patches of Leprosy: 18 cases are studied. It has been observed that the leech application gives instantaneous relief in cases of sinusitis, Otorrhoeas and intractable cases of headache and neuritis.

(iii) Effect of Leech-application in joint paid and miscellaneous diseases: In all 90 cases are studied under this scheme. Studies on blood of the patients as regards bleeding time, clotting time, fragility, Erythrocytes sedimentation rate, Packed cell volume, specific gravity etc. is studied 30-40 minutes before and after leech application at each seating of the patients. No substantial change in the blood picture is noted.

(iv) Effect of भारंगमूत्र on कास = Bronchitis as respiratory sedative: More 100 cases are studied. The work is in progress.

(v) Effect of Solanum Nigrum (काकमाची) on Tinea Corporis: 10 cases are studied. The work is in progress.

(B) Research in the Fundamental Theories of Ayurveda:

(i) The work of observation of "रस-गुणवीर्य विपाक" of drugs with reference to their pharmacological action was taken in hand. The work of Vipaka-Experiments is completed.

(ii) The work on Prakruti-Vinishchaya is in progress.

(C) Pharmacological Research:

(i) Prameha-Madhumeha: Treatment of Diabetes Mellitus with a specific medicine "Salobcein Tablets"; seven cases were admitted under this scheme and studied. These tablets have shown hypoglycemic effect in three cases with 15 days treatment. The work is in progress. Chemical examination of the tablets has revealed absence of tolbutamide, chlorpropamide, phenformine manganese and Zinc.

(a) Hypoglycemic activity of "Salobcein Tablets":

The hypoglycemic activity of Salobcein was studied with alloxan diabetic rats. The work is still in progress.

(b) Diuretic activity of certain Ayurvedic remedies:

In continuation of previous work one more plant, Infusion of bark of "Saragavo" (Moringe pterygosperma) was examined for diuretic activity in male albino rats. No diuretic effect was seen.

(c) Analgesic and antipyretic action of certain Ayurvedic remedies were studied. Aconitum ferox, wall and cassia fistula, Linn. were examined for antipyretic activity in male albino rats by the method described by Burn, Finney and

Goodwin. Both drugs were found to possess significant antipyretic and analgesic activities. Acute toxicity studies indicated that both the compounds have a high therapeutic index.

(D) *Physiology:*

Study of the sedative action of 'Jayfal' and 'Vacha' was suspended during the year as it showed no favourable results.

(E) *Pharmacognosy:*

A separate laboratory and a drug-drying store room, optical instruments, chemicals and books etc. are set apart for this work.

6. **Rasashala**

गुग्गुलु गुटिका, भागी सायरव, अश्वगंधासायरव, शिशुत्वक चूर्ण, विडंग चूर्ण, सर्जरस चूर्ण have been prepared in the Rasashala.

7. **Garden**

50 Ayurvedic herbs are grown and maintained in the garden for juices and quaths that are used in Pharmacy preparations and clinical trials.

8. **Publications**

Sr. No.	Name of the contributors	Title of the Paper	Publications
1	Vaidya M. K. Brahmabhatt	(i) बस्ति चिकित्सा	Bhishag Bharati
		(ii) आधुनिक रोगविनिश्चयानुसार प्रवाहिकोने शामां अन्तर्गत करी शक्या ?	Ayurved Jagat, July, 1963
		(iii) ज्वरकी पथ्यान्नत चिकित्सा आयुर्वेद अने आधुनिक दृष्ट्या	Sachitra Ayurveda
		(iv) आयुर्वेद अने नाडी विज्ञान	Vaidya Kalpataru
2	Vaidya Y. R. Pandit	प्रवाहिकानी हेतु अनुसार उत्पत्ति अने दोष परत्वे लक्षणो	Ayurved Jagat, August, 1963

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. **Courses of Studies**

The Faculty provides for the following courses:

- (1) M.E. and B.E. in Civil, Mechanical and Electrical Engineering
- (2) B. Chemical Engineering in Chemical Engineering
- (3) B. Textile Engineering and Textile Technology
- (4) B. Arch. in Architecture
- (5) Diploma in Textile Chemistry and Textile Technology

The Faculty proposes to offer a few more specialisation in Civil, Mechanical and Electrical Engineering at Post-graduate level from the next year.

2. **Number of students**

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

Year/Class	Men Students	Women Students	Total
(1) <i>Diploma:</i>			
Textile Chemistry I Year	42	—	42
Textile Chemistry II Year	29	—	29
Textile Chemistry III Year	85	—	85
Pre-Textile Technology	40	—	40
Textile Technology 1st Year	39	—	39
Textile Technology II Year	26	—	26
Textile Technology III Year	35	—	35
Total	296	—	296
(2) <i>Degree:</i>			
F.E. ( Civil )	152	—	152
F.E. ( Mechanical )	92	—	92
F.E. ( Electrical )	90	—	90
F.Text. Eng.	20	—	20
F. Text. Tech.	16	—	16
S.E. Civil	117	2	119
S.E. Mechanical	71	—	71
S.E. Electrical	63	—	63
S. Text. ( Eng. )	20	—	20
S.Text. Tech.	12	—	12
T.E. Civil	129	2	131
T.E. Mechanical	120	—	120
T.E. Electrical	64	—	64

Year/Class	Men Students	Women Students	Total
T. Text. Eng.	16	—	16
T. Text. Tech.	8	—	8
B.E. Civil	137	—	137
B.E. ( Mechanical )	187	2	189
B.E. ( Electrical )	115	—	115
B. Text. Eng.	10	—	10
B. Text. Tech.	14	—	14
B. Chem. Eng. I Year	40	—	40
B. Arch. I Year	42	8	50
B. Arch. II Year	41	5	46
B. Arch. III Year	65	3	68
B. Arch. IV Year	37	4	41
B. Arch. V Year	42	5	47
<b>Total</b>	<b>1720</b>	<b>31</b>	<b>1751</b>
<b>(3) Post-graduate Degree:</b>			
M.E. ( Civil ) Advanced Irrigation and Hydraulics	7	—	7
M.E. ( Civil ) Highway Engineering	6	—	6
M.E. ( Civil ) Public Health Engg.	7	—	7
M.E. ( Civil ) Soil Mechanics and Foundation Engg.	6	—	6
M.E. ( Mechanical )	6	—	6
M.E. ( Electrical )	9	—	9
<b>Total</b>	<b>41</b>	<b>—</b>	<b>41</b>
<b>(4) Government of India Technical Teachers</b>			
<i>Trainees:</i>			
Civil	2	—	2
Mechanical	1	—	1
Electrical	3	—	3
<b>Total</b>	<b>6</b>	<b>—</b>	<b>6</b>
<b>Grand Total</b>	<b>2063</b>	<b>31</b>	<b>2094</b>

### 3. Staff

During the year the staff of the Faculty consisted of 10 Professors, 26 Readers, 61 Lecturers, 1 Part-time Lecturer, 29 Senior Instructors, 16 Demonstrators, 4 Tutors, 193 Class III and 84 Class IV Servants.

### 4. Library

The Faculty maintains a Library of books and periodicals pertaining to various specialisations. Over and above the usual recurring grants, the University sanctioned recurring grants of Rs. 1,000/- for books and periodicals on Chemical Engineering and of Rs. 1,500/- for books and periodicals on Electrical and Mechanical Engineering. All the grants have been fully utilised.

Several books have been acquired by the Library during the year 1963-64 and the total value of the books and periodicals is Rs. 3,56,555-72 Paise upto the end of March, 1964.

### 5. Museum, Laboratories, Studies, Workshops, etc.

Sr. No.	Item	Cost of equipment etc. as on 1-4-1963 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment etc. as on 31-3-1964 Rs.
1	Laboratories, Work- shops, Studios, etc.	34,52,653-84	2,403-24	1,64,027-76	36,14,278-36

### 6. Publications by the members of the Staff

#### (1) Articles/Papers:

Name	Title	Name of the Journal wherein published with month of publication
1 Dr. K. S. Shah	( i ) Draft standard for Noise level in residential and industrial localities	Journal of Institution of Engineers ( India ) Gujarat Centre. An- nual No. December, 1963
	( ii ) Noise investigation on axial blowers	Journal of Institution of Engineers ( India ) Mech. Section March, 1964
	( iii ) Cold Storing Problem and solutions for I.C. engines	3 papers read at De- fence Ministry Semi- nar on I.C. Engines operation at high alti- tudes, New Delhi in March, 1964
	( iv ) Altitude correction and other compensations for power of I.C. engines	

*Name of the Journal  
wherein published with  
month of publication*

<i>Name</i>	<i>Title</i>	<i>Name of the Journal wherein published with month of publication</i>
	(v) Designs considerations for light weight I.C. engines at high altitudes	
2 Dr. S. J. Shah	Design parameters of super-changes for altitude correction	Read at Defence Ministry Seminar on I.C. Engines operation at high altitudes, New Delhi in March, 1964

### 7. Literary, Cultural and Other Activities

Under the auspices of the Literary Association of this Faculty, lectures and talks on various subjects of general and engineering interest by prominent persons are arranged. Students of this Faculty take part in various Inter-Faculty, Inter-University and other debating and elocution contests. Apart from the usual activities, citizens debate, mock parliament, mushaira, etc. are also arranged from time to time.

The Student's Chapter of the Institution of Engineers India, and the Literary Association arranged the following lectures:

<i>Date</i>	<i>Speaker</i>	<i>Subject</i>
18-7-1963	Shri V. S. Bhatia, Electrical Engineer, Siemens Eng. Co.	(i) Back up protection of L.T. Circuit breakers through H.R.C. fuses (ii) Contractors
17-9-1963	Lt. Col. Nirula EME School, Baroda, (North)	Corps of Electrical and Mechanical Engineers in Indian Army

### 8. Co-curricular Activities

#### (1) Exhibition of Educational films:

The Faculty has the 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. 30 films were shown at the Faculty during the year.

#### (2) Co-operative Stores:

The working of the Store was satisfactory, the total sale during the year amounted to Rs. 13,150.

## CHAPTER XIV—FACULTY OF FINE ARTS

### 1. Courses of Studies

The faculty offers the following courses:

M.A. ( Fine ): Art Criticism and Art Education

B.A. ( Fine ) and M.A. ( Fine ): Applied Arts, Painting and Sculpture

Post-graduate Diploma: Museology

Post-Diploma and Diploma: Applied Arts, Painting and Sculpture

Diploma: Textile Design

Certificate: Bronze Casting, Lithography, Photography, Pottery and Ceramics, Printing, Process and Block making and Woodwork.

### 2. Number of Students

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

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
(1) <i>Certificate:</i>			
First Year	4	—	4
Second Year	1	—	1
<b>Total</b>	<b>5</b>	<b>—</b>	<b>5</b>
(2) <i>Diploma:</i>			
First Year	24	6	30
Second Year	17	—	17
Third Year	9	1	10
Fourth Year	16	—	16
<b>Total</b>	<b>66</b>	<b>7</b>	<b>73</b>
(3) <i>Post-Diploma:</i>			
Junior	2	—	2
Senior	—	—	—
<b>Total</b>	<b>2</b>	<b>—</b>	<b>2</b>
(4) <i>Degree:</i>			
Preparatory	32	6	38
First Year Specialization	11	1	12
Second Year Specialization	11	6	17
Third Year Specialization	14	5	19
<b>Total</b>	<b>68</b>	<b>18</b>	<b>86</b>

Class	Men	Women	Total
(5) <i>Post-Graduate Degree:</i>			
Junior	2	—	2
Senior	4	3	7
Total	6	3	9
(6) <i>Post-Graduate Diploma:</i>			
Junior	7	1	8
Senior	2	2	4
Total	9	3	12
(7) Non-Collegiate and Government Scholars and Foreign Scholars	16	6	22
Grand Total	172	37	209

### 3. Staff

During the year, the staff consisted of 3 Professors, 4 Readers, 17 Lecturers, 2 Honorary Professors, 1 Part-time Photographer, 4 Demonstrators and Tutors, 2 Technicians, 1 Technical Assistant, 1 Taxi-dermist, 1 Printer, 6 Class III and 16 Class IV Servants.

### 4. Library

The Faculty maintains a Library containing books and periodicals pertaining to the various specialisations.

#### (1) Acquisition Notes:

##### (A) Books:

The Library received a grant of Rs. 3,000 from the University as usual and it was fully utilised. In addition an amount of Rs. 4,056-38 was spent towards the purchase of the books during the year from the grant of Rs. 5,000 for books sanctioned by the University Grants Commission under the Third Five Year Plan period.

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

	Books (including back No. of journals)	Pamphlets	Total value in Rs. P.
Number at the beginning of year	3787	94	55,298-51
Number added during the year	152	—	7,055-91
	3939	94	62,354-42
Number withdrawn from the record	54	—	490-70
Number remaining at the end of the year	3885	94	61,863-72

#### (B) Periodicals:

The total number of periodicals and scholarly journals subscribed to, now stands at 21. The total amount spent for subscription of the periodicals is Rs. 971-09. The total amount for binding is Rs. 220-75.

### 5. Museum, Laboratory, Studio, Workshops, etc.

Sr. No.	Item	Cost of equip- ment as on 1-4-1963 Rs.	Cost of equip- ment written off during the year Rs.	Cost of equip- ment added during the year Rs.	Cost of equip- ment as on 31-3-1964 Rs.
1	Studios, Work- shops, Painting, Sculpture and Applied Arts	1,67,815-08	—	62,354-42	2,30,169-50
2	Museology	47,043-89	—	1,860-65	48,904-54
	Total	2,14,858-97	—	64,215-07	2,79,074-04

### 6. Literary, Cultural and Other Activities

During the year the Faculty arranged a number of lectures and demonstrations by experts some of which are mentioned below:

Name	Number of Lectures/ Demonstrations	Subject
1. Dr. Motichandra, Director, Prince of Wales Museum, Bombay	1	Mediaeval Painting
2. Shri K. S. Kulkarni, Director, Triveni Art De- partment, New Delhi	2	Recent methods of preservation of Art objects in the American Museum
	2	Composition
3. Shri C. Shivarammurthi, Asstt. Director, National Museum, New Delhi	1	The Indian Painter and his Art

Name	Number of Lectures/ Demonstrations	Subject
4. Dr. S. T. Satyamurti	3	1. Roll of Central Advisory Board and the Museum Association of India in the development of Indian Museums 2. Themes for temporary Exhibitions—Natural History Subjects 3. Natural History Museums and research
5. Shri O. P. Agarwal	2	1. Care and Preservation of wall paintings. Methods of transferring Fresco Paintings 2. New Life to dying Murals
6. Shri Harinarayan	2	Problems of conservation of Indian Sculptures.

Professor V. R. Amberkar, Artist and Art Critic from Bombay was invited as Visiting Professor to give lectures in the subject of Art History to the Post-graduate students of this Faculty. He delivered 30 lectures during the year. Shri V. L. Devkar delivered 22 Lectures on various aspects on the subject of Museology.

#### 7. Co-curricular Activities

(1) A special film show was arranged on the 14th September, 1963 in the Exhibition Hall of this Faculty by Mr. H. Fuseillier, Director, Alliance Francaise de Bombay and well known French Painter.

(2) An Exhibition of Preparatory Students' work was held from the 30th November to the 5th December, 1963 in the Exhibition Hall of the Faculty.

(3) A Fun Fair Programme was arranged for the sale of works on the 21st and 22nd December, 1963. A sum of Rs. 5,221/- was collected from the sale and credited to the Faculty Poor Boys' Fund.

#### 8. Other Important Events

(1) Professor N. N. Chaudhuri completed 15 ft. high statue of Mahatma Gandhi in bronze to be sent to Brazil.

(2) Shri K. G. Subramanyan completed a mosaic mural of fairly huge dimensions for Rabindra Bhavan, Lucknow.

(3) Professor N. S. Bendre, Dean of the Faculty and Head, Department of Painting was invited by the Federal Republic of Germany to visit Art and Cultural Institutions in April, 1963. He also was invited by the Government of United States to visit University Art Department and contact eminent persons in his field during October and November, 1963. He also attended International Association of Plastic Arts 4th Conference at New York held from the 6th to the 12th October, 1963 as delegate from India. He also visited Japan with a view to meet artists and see Art Institutions in that country.

## CHAPTER XV—FACULTY OF HOME SCIENCE

### 1. Courses of Studies

There is provision for the following courses:

- (1) B.Sc. (Home), M.Sc. (Home), Ph.D.: Foods and Nutrition
- (2) B.Sc. (Home) and M.Sc. (Home):
- (i) Child Development
  - (ii) Clothing and Textiles
  - (iii) Economics of Household and Home Management
  - (iv) Home Science Education and Extension
- (3) Post-graduate Diploma: Nursery School Education
- (4) B.Sc. (Home): General Home Science

The syllabus for B.Sc. (Home), introduced in 1957-58 was revised during the year under report. In the new course of B.Sc. (Home), the first six semesters are devoted to a core course which acquaints all the students with the different phases of Home Science. In the seventh and the eighth semesters the students have to select one of the five fields of specialisation or General Home Science.

Major changes have been introduced in the M.Sc. (Home), curriculum of all the departments. In the Child Development Department it has been decided to offer three areas of specialisation at the M.Sc. level *i.e.* Nursery School Education and Parent Education, Family Relations and Research in Child Development. Admissions to M.Sc. (Home) will now be open not only to B.Sc. (Home) students but also to B.A.s and B.Sc.s as detailed below:

- (i) B.A with Sociology or Psychology as major or special subject M.Sc. (Home) in Child Development.
- (ii) B.Ed. M.Sc. (Home) in Child Development or Home Science Education and Extension.
- (iii) B.Sc. with Chemistry or Bio-chemistry as principal subject M.Sc. (Home) in Foods and Nutrition.

A specially designed course in Humanities and Sciences is offered by the department of General Education.

### 2. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1963-64 was as follows:

(1) B.Sc. (Home):		481
(a) First Year	151	
(b) Second Year	126	
(c) Third Year	113	
(d) Fourth Year	91	
(2) Post-graduate Diploma in Nursery School Education		6
(3) M.Sc. (Home):		73
(a) Junior	45	
(b) Senior	28	
		Total 560

### 3. Staff

The staff of the Faculty consisted of 2 Professors, 3 Readers, 19 Lecturers, 4 Tutors, 16 Demonstrators, 13 Class III Servants and 15 Class IV Servants. The Faculty continued to receive the help of the Staff of the other Faculties for teaching various courses.

### 4. Library and Reading Room

The Faculty maintains a Library of books and periodicals pertaining to the various specialisations.

The Library received as usual a recurring grant of Rs. 4,000 from the University for purchase of books and Rs. 2,000 for periodicals. The grant has been fully utilized.

#### (1) Acquisition Notes:

##### (A) Books:

The following statement gives the details of the acquisition of the Library:

	Books	Bound periodicals	Pamphlets	Maps Charts	Total value Rs.
1. Number at the beginning of the year	9698	407	335	—	67,421-59
2. Number added during the year	281	52	10	—	6,999-67
3. Number withdrawn from the records	—	—	—	—	—
4. Number remaining at the end of the year	9979	459	345	—	74,421-26

##### (B) Periodicals:

The total number of periodicals and scholarly journals subscribed for the library now stands at 47. About 52 volumes of bound periodicals were added to the stock during the year.

### 5. Museum, Laboratories and Workshops

The Faculty purchased several show-cases to display the educational articles. The following table shows the total cost of equipment in the Museum, Laboratories and Workshops:

Sr. No.	Item	Cost of equipment etc. as on 1-4-1963 Rs.	Cost of equipment etc. written off during the year Rs.	Cost of equipment etc. added during the year Rs.	Cost of equipment etc. as on 31-3-1964 Rs.
1	Museum, Laboratories and Workshops	2,88,960-00	—	7,389-01	2,96,349-01

### 6. Literary, Cultural and Other Activities

(1) The Department of Foods and Nutrition has been selected as one of three Regional Applied Nutrition Training Institutes of India to be sponsored jointly by the Ministry of Community Development, F.A.O., W.H.O. and U.N.I.C.E.F. The University Grants Commission have sanctioned Rs. 50,000 for Equipments and Rs. 10,000 for Books and the Ford Foundation has granted a supplementary grant of nearly Rs. 3 lakhs for equipment, supplies and staff required for Post-graduate and Doctoral research.

(2) In the Department of Child Development, Professor Mrs. Verma conducted a survey of Child Development and family relation courses being offered in Home Science Colleges in India. She also conducted an evaluation of Child Development courses with the help of Alumni of the Department. A survey of Institution doing research in Child Development and Family Relations was also conducted. The W.H.O. Pediatrician at Medical College, Baroda has used the facilities of the department for the training of his Post-graduate students. A Summer Refresher Course sponsored by the Ministry of Food and Agriculture, New Delhi was arranged in March-May, 1963 by the Department.

### 7. Publications

The Faculty published the following:

- A pamphlet on "Batik"
- A pamphlet on the abstracts on M.Sc. theses of the students of Faculty
- A Survey of Child Development Research.

### 8. Co-curricular Activities

(1) A good number of scientists visited the Faculty and its departments and delivered interesting lectures under the scheme of visiting Professors and also led the seminars.

(2) Some teachers of the Faculty gave extension lectures, attended seminars and conferences and also availed of the University Grants Commission travel grants for purposes of research and higher specialized training in different recognised institutes.

### 9. Ford Foundation—Home Science Project

The Ford Foundation continued support to the University's programme of Post-graduate training and research in Home Science and sanctioned grants for scholarships, fellowships, research associateships, buildings, etc. Four Visiting Professors out of the first batch of five left for U.S.A. and the second batch of four Visiting Professors joined the project during the year.

Selection was made on all India basis and a batch of 7 trainees—one for Ph.D. each in Child Development and Foods and Nutrition and one for M. S. in each of the five specialisations were sent for higher studies in U.S.A.

9 Post-graduate fellowships of Rs. 1,500 each per annum and 10 undergraduate scholarships of Rs. 1,200 each per annum awarded in previous years were renewed and 22 Post-graduate fellowships and 8 undergraduate scholarships were awarded during the year 1963-64.

### 10. Chetan Balwadi

The Chetan Balwadi which serves as a practising school for the students of the Faculty of Home Science was started in July, 1949 with 50 children on its roll. The Department of Child Development conducts this nursery school for children between the ages of 2 and 5. It is located on the ground floor in the West Wing of the Faculty and is furnished with suitable furniture, equipments, apparatus, etc., for the education of children of the above-mentioned age group. In the year 1957-58 a new section of Kindergarten class for 25 children was started. The number of children in the Balwadi and the Kindergarten is as under:

	Boys	Girls	Total
( i ) Kindergarten	8	11	19
( ii ) Chetan Balwadi	36	30	66
Total	44	41	85

A student from the Faculty of Social Work helps the students, teachers as well as parents to understand their difficulties. A Pediatrician is also appointed for the medical check up of the children and to advise parents from time to time. Parent-Teacher Committee was very active this year. Many parents came to observe the activities and helped the teachers in the Balwadi routine. Seven parents meetings were held during the year. A few pilot studies were also carried out at the Balwadi.

## 11. Gram Sevika Training Centre

The Ministry of Agriculture, Government of India is conducting an intensive programme of rural development in the country through the National Extension Service Blocks for raising the standards of living, health and happiness of the rural population. In this programme the Ministry requires a large number of Gram Sevikas *i.e.* Women Village-level Workers who are well-equipped to work in rural areas and to help the women there to raise the standard of living of the rural community. With this end in view, the Ministry decided to start 25 Centres in the country to train such workers. One out of the two centres offered to the former state of Bombay, is run on their behalf by the University as the 'Home Science Wing' in the University estate of Tara Niwas. Necessary additions and alterations were made at a cost of over Rs. 50,000 for providing a training hall with class rooms, laboratory, an administrative office and residential accommodation for the teachers and the trainees. The Wing started functioning from 18th June, 1956. The Wing has so far conducted 7 batches and has turned out 174 trainees who have now been posted as Gramsevikas in Development Blocks of the State Government. The seventh (final) batch completed the training in September, 1963.

The staff consists of one Chief Instructress, four Assistant Instructresses, three class III and five class IV servants.

The training programme was of one year's duration and instruction was being imparted in subjects *viz.* Family, Foods and Nutrition, Clothing, Mother and Child Care, Housing and House Management, Health and Sanitation, Handicrafts and Cottage Industry, Agriculture, Kitchen-gardening, Co-operation and Home Science Extension. The Principal and the staff of the Gram Sevak Trainee Centre, Baroda also used to co-operate in the teaching of some of the above subjects. The subjects were taught in theory and practicals in class, and practised in daily livings in hostels.

The Government of Gujarat issued orders discontinuing the one year training programme for the Gram Sevikas with effect from the 1st October, 1963. The Wing at the request of the State Government organised two refresher courses each of two months duration for the Gram Sevikas who have put up at least 3 years services in the Blocks. The first course was organised from the 5th November, 1963 to the 4th January, 1964. 27 Gram Sevikas who were deputed by the Commissioner, Baroda Division attended the course. The second course was conducted between the 1st February, and 31st March, 1964 and there were 24 Gram Sevikas attending the course. During these two courses outside guest lecturers were invited to give lectures and practical demonstrations. Educational study tours and visits were also arranged for the Gram Sevikas so that they can get the practical knowledge in the subject.

## CHAPTER XVI—FACULTY OF SOCIAL WORK

### 1. Courses of Studies (Post-graduate Degree in Social Work—M.S.W.)

The Faculty's training programme consists of three major components:

(1) **Class-Room Work:** The Courses of study aim at preparing competent workers for variety of positions in the field of social welfare. Since the establishment of the Faculty in 1950, its policy has been to provide a generic social work training. The various changes which have been introduced in the curriculum of the Faculty, are indicative of its deep concern for maintaining a high academic standard in the field.

(2) **Field Work (Practical Training):** In any professional training the theoretical knowledge should be supplemented by practical training in the field. The students should devote not less than half of the total time to practical training. There are twenty agencies co-operating with the Faculty and participating very actively in providing learning experiences for the students.

In the initial years there were no suitable agencies for offering field experiences in the fields of Rural Social Work, Urban Community Welfare and Psychiatric Social Work. The Faculty took initiative and established the following agencies with a primary purpose of training the students:

- (i) Rural Community Welfare Centres
- (ii) Fateh Gunj Samaj Kalyan Kendra
- (iii) Mental Hygiene and Psychiatric Clinic

#### (i) Rural Community Welfare Centres:

At present, the Faculty is running Centres at villages—Bil and Tandelja. Every year 7 to 8 students are placed in these Centres for their field work training. The students carried out the Social Education Programme for the members of the Youth League. The programme included recreational and cultural activities, literacy classes, discussions on topics and problems pertaining to rural areas, conducting surveys, publication of monthly bulletin, organising film shows, maintaining an information bureau and keeping liason between the village people and Government. The students organised Women's groups in different Falias of the village, groups of young boys and girls and encourage them to take active part in various programmes of the villages.

#### (ii) Fatehgunj Samaj Kalyan Kendra:

This Centre was established in the Fatehgunj Area in the year 1951. It extends training facilities to the students and also serves as a service agency for the local community. The main functions of the Kendra are recreational and Social Education programmes for different age groups, subsidiary diet for children under 12 years, community education on health problems, advice on

family planning, etc. During this academic year 10 students were placed in the Centre for their field work experiences. The Centre carried out all the programmes as mentioned above.

(iii) *Mental Hygiene and Psychiatric Clinic:*

The Clinic was established in July, 1952 as an out patient clinic in the S.S.G. Hospital on part-time basis. The Jean and Howard Norman Trust of Australia gave grants to the Clinic and it started working full time from July, 1954. The objectives of the Clinic have been to provide field instruction to psychiatric social work students, to offer psychiatric services to the community and to participate in programmes leading to prevention of mental illness in the community. Students are taught courses in 'Human Growth and Personality Development' and 'Psychiatric Social Work' at the Faculty of Social Work. In the Clinic they learn various aspects of mental illness, controlled observation of patients and case work treatment of children and adults. They are also given opportunities to extend mental health services in some selected settings in the city under the supervision of the Clinic staff. Under-graduate medical students in small batches also attend the Clinic for a period of two weeks during their out patient department terms. They are taught psychiatric history taking and examination; they also observe the manner in which the Clinic team behaves with the patients.

Since its establishment in July 1952, the Clinic registered 3461 cases upto March 31, 1964. During the year services were rendered to 688 cases as against 447 cases last year. Of this 688, 560 were new cases registered during the year and 128 cases were carried forward from the previous years. The number of new cases shows an increase of 36.5% over last year 411 new cases. Of these 560 cases, 68.5% were male and 31.5% female patients; 78.4% were adults and 21.6% children. 62 percent of the patients came from the city and 38% from out of Baroda. Forty percent of the patients were referred by ex-patients and their or current patients' relatives and friends and 35% by the out-patient and in-patient departments of the S.S.G. Hospital. The remarkable increase in the number of referrals by the former group shows the extent of awareness the local community has about the clinic services. The total 688 cases had 3684 sessions (including patients and relatives) with the psychiatrist, the clinical psychologist and the psychiatric social workers. The treatment methods used were: physical therapies, Case work treatment, counselling and psychotherapy. Because of several limitations, including the limitation of personnel and equipment, only 365 patients were accepted for treatment. Of these 365 cases, 136 showed improvement. Another 104 cases, which were referred for limited purpose e.g. diagnostic evaluation or supportive help for a chronic mental condition, were given this limited help. Majority of out of town patients could not return for further help. Currently 82 patients are actively under treatment. The Clinic also provided child-guidance services to the Chetan Balwadi of the Faculty of Home Science and a few primary and secondary schools and a Community Welfare Centre,

(3) *Research Experience*

As part of the requirements for the Degree of Master of Social Work, the students of the Faculty undertake research studies which are primarily intended to provide an experience in the use of research methods.

The Faculty organized a camp in order to provide the students with experiences in democratic living, and a study tour to acquaint them with the management and operation of social welfare agencies. Senior students went on a nine-day study tour programme to Poona visiting social welfare agencies in the field of Child Welfare, Urban Welfare and Correctional Administration and Juvenile Delinquency. A camp was organised for Junior students at Khadasali (Saurashtra) for eight days. The students gained an experience in group living and also had an opportunity to visit a community development block and other places of interest.

2. **Number of Students**

The number of students enrolled in the Junior and Senior Classes at the commencement of the year 1963-64 was as under:

Class	Men	Women	Total
Senior Class	29	9	38
Junior Class	31	11	42
Total	60	20	80

3. **Staff**

The staff of the Faculty consisted of 1 Professor, 2 Readers, 7 Lecturers, 1 Agency Supervisor, 1 Part-time Lecturer, 10 Class III and 7 Class IV servants. The Mental Hygiene and Psychiatric Clinic had 1 Reader in Mental Hygiene, 1 Part-time Psychiatrist, 1 Clinical Psychologist, 2 Psychiatric Social Workers, 1 Class III and 1 Class IV servant.

4. **Library**

(1) *Acquisition Notes:*

(A) *Books:* The Faculty maintains a Library of books and journals pertaining to the various fields of specialisation.

The Library received a grant of Rs. 3,000 for books and Rs. 1,000 for Films from the University this year and both the grants were fully utilized.

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

	Books (including Bound Periodicals)	Pamphlets	Total value in Rupees
Number at the beginning of the year	5472	950	41,700-26
Number added during the year	274	160	2,999-88
<b>Total</b>	<b>5746</b>	<b>1110</b>	<b>44,700-14</b>
Number written off from the records	150	—	640-20
Number remaining at the end of the year	5596	—	44,059-94

### (B) Periodicals

The total number of periodicals and scholarly journals subscribed for during the year stands at 76. About 87 volumes of bound periodicals were added to the stock during the year. Amount spent for subscription, etc. is Rs. 1,295-03 nP. Amount spent for Films is Rs. 800-55 nP.

### 5. Publications by the Members of the Staff

The following papers and articles were published by the members of the staff during 1963-64:

Name of the Teacher	Title of Paper/Article	Name of the Journal and month of publication
(1) Articles:		
(i) Shri G. G. Dadlani	Methods of Teaching Research Sequence	"Social Work Review", Baroda, July, 1963
(ii) Shri I. P. Shelat	Economic Development and Social Welfare (Gujarati)	Souvenir—Central Gujarat Chamber of Commerce on its 5th Year—February, 1964
(iii) Shri D. L. Sheth	Reactions of Urban Employees to vasectomy operations	The Journal of Family Welfare, Vol. X, No. 2, December, 1963

### 6. Literary, Cultural and Other Activities

As in the previous years, the members of the staff continued to participate in the wider field of social work in addition to their varied responsibilities and duties at the Faculty. They also took active interest in the development of the field. They participated in various conferences and gave talks on topics of vital importance.

#### (1) Seminars:

(i) *Third Faculty-Agency Seminar (2nd and 3rd February, 1964):*

To accomplish greater involvement of field work agencies in the students' training programme, the Faculty had organised a Seminar for which the re-

presentatives of the local welfare agencies were invited. The seminar which was attended by 44 delegates focussed the discussions on the topic of mutual interest "The Field of Social Welfare in Baroda".

(ii) *Fourth Faculty-Alumni Seminar (6th and 7th March, 1964):*

The Fourth Faculty Alumni Seminar was held at Mahipatram Rupram Ashram, Ahmedabad. It was attended by 77 Alumnus of this Faculty. The seminar has now become an annual feature of the Faculty's programme for self-study and evaluation of its training content. The theme selected for the Seminar of 1964 was "Role of Supervision in Administration and Professional Training".

### 7. Co-curricular Activities

(1) Shri G. G. Dadlani and Shri S. K. Majmudar worked in different capacities on various committees, Boards, Associations, etc. in and outside the University.

(2) The Faculty maintains a film library of its own. Every year additional films on subjects of academic interest are obtained for use from different organisation. Periodical film shows are arranged to supplement class-room teaching. Demonstration sessions on use of studio-visual aids are held to help students to appreciate the use of this important method of extension.

### 8. Other Important Events

(1) *Students' Association:*

The Students' Association of the Faculty continued to work with enthusiasm. During the year the Association had organized socials, sports, outings, 3 debates and 5 lectures by eminent speakers on topics of academic interest.

The study circle, which was started by the Students' Association, has been working well. During the academic year, series of lectures on different topics were held under the auspices of this Circle. In addition to this, the students participated in the programmes organized at the University level. One of our students won a prize for participating in the University 'Planning Forum'.

(2) *Magazine:*

The tenth issue of the "Social Work Review" Magazine was published in July 1963. Some well known people in the field of Social Work and members of the staff have contributed articles for this issue.

(3) *Planning Forum of the Faculty:*

The Planning Forum of the Faculty arranged a lecture by Shri Ravishankar Maharaj, the well known Social Worker, on "Social Work Practice in a Planned India" for the students and the staff of the Faculty.

(4) *Award of Shields:*

Shrimati Manorama Karandikar Shield was awarded to Kumari T. N. Parekh, Alumni of the group 1961-63, who stood first in the order of merit, on 22nd March, 1964. The Alumni Association Shield was awarded to Kumari Loretta Britto, alumni of the group 1961-63, who stood second in the order of merit.

(5) *Alumni Association:*

The Alumni Association continued to give information and counsel to graduates regarding job and other problems. Since its inception, the Association has striven to establish close contacts between the Faculty of Social Work and its alumni. It acts as a central bureau of information for transmitting news of employment opportunities and related matters to its members.

During the last 14 years of its establishment, the Faculty has trained 254 graduates. Almost all of them are gainfully employed and many of them are holding key positions in the field.

**9. Social Education Organizers' Training Centre, Samiala**

The Centre is a constituent Unit of the Faculty of Social Work, situated about 8 miles from Baroda on the road to Padra. It is one of the eleven Social Education Organizers' Training Centres in India and receives grants from the Ministry of Community Development and Co-operation, Government of India. It is an inservice training centre for the Social Education Organizers who are in charge of Social Education Programmes in C.D. Blocks along with other Extension Workers.

This Centre was started in January, 1955 exclusively for women who underwent specialized training for three months after the five months' regular training for Social Education Organizers' Work. In January, 1956 the Centre was converted into a five months' training Centre for both men and women. In 1959 the Ministry revised the training programme so as to make it longer—6½ months for men and 10½ months for women. Since March, 1959 the Centre is training only women S.E.O.s known as Mukhya Sevikas. The Training Centre has so far trained 94 men and 298 women.

The fourth long term course of Mukhya Sevikas ended on the 25th June, 1963 wherein 25 women trainees were trained as Mukhya Sevikas. The fifth course has been started with 19 trainees on roll.

The new syllabus for the Mukhya Sevikas with emphasis on practical skills was used for the first time. The theoretical portion of the studies emphasised the Social Science knowledge as applied to the rural situation. Increasing use of new communication techniques like audio-visual aids, role playing, etc. were also used. Field work, agency visits, village camps, study tours, village placements and Block-placements were also carried on during the year.

The staff of the centre including the postal staff consists of one Director, one Special Instructor, four Lecturers, One Art Instructor, one Lady Home Economist, Nine Class III and ten Class IV servants. Thirteen part-time Lecturers were also invited for the long term course.

The Centre also maintains a library and a reading-room. It has a stock of 1422 books at a cost of Rs. 8,636-00. The Library continued to get publications of the Government of India, U.S.I.S., etc. free of cost.

Shri S. H. Shah visited Orientation and Study Centre, Junagadh. Shrimati V. V. Pawar, Kumari Asha Pandya and Sarvashri A. K. Das and B. H. Pathak visited (i) Institute of Education and Extension, (ii) Agro Economic Research Centre and (iii) Rural Housing Wing at Anand. Sarvashri J. C. Kavoori, K. M. Sharma, B. H. Pathak and S. H. Shah also attended conferences and seminars concerning Social Education.

The Centre also runs a Health Clinic with the assistance of Government Doctors of Padra Health Unit. This year the total number of Clinic days was 100 and the number of patients was 1143. A grant of Rs. 2,000 was sanctioned by the University towards the maintenance of the Clinic. Field Work, agency visits, village camps, study tours, celebrations of Jayantis and Centenaries, etc., were arranged during the year.

The Centre was also visited by a number of distinguished visitors. Shri S. K. Dey, Minister for Community Development, Co-operation and Panchayati Raj paid a visit to the Institution on the 18th June, 1963. Dr. (Mrs.) A. H. Moore, Representative of World Health Organisation visited the Centre on the 6th December, 1963.

## CHAPTER XVII—FACULTY OF LAW

### 1. Brief History

Since June, 1957 Law was taught as a liberal and cultural subject at the B.A. level in the Faculty of Arts. A committee was appointed under the Chairmanship of Honorable Justice Shri K. T. Desai to work out the syllabi and other details for starting the Faculty of Law. The Committee submitted the report in November, 1958 and the Senate in their meeting held on the 26th March, 1961 unanimously resolved to start the Faculty from June, 1961. The Faculty started imparting liberal-cum-professional training and instruction leading to the degree of Bachelor of Laws (LL.B.) from June, 1961. The Faculty has also started imparting instructions in a one year Post-graduate Diploma Course in Taxation Laws and Practice from July, 1963.

### 2. Courses of Studies

The Faculty imparts instructions leading to the degree of LL.B. (Bachelor of Laws) and also in Post-graduate Diploma Course in Taxation Laws and Practice leading to the Diploma of D.T.P. The teaching of Law at the B.A. (Subsidiary) S.Y.B.A. is also continued.

### 3. Number of Students

The number of students is as under:

<i>Class</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
First LL.B.	282	27	309
Second LL.B.	142	13	155
D.T.P.	21	2	23
Grand Total	445	42	487

The strength of the Law class in the Faculty of Arts was as under:  
Law (Subsidiary) S.Y.B.A. 32

### 4. Staff

During the year the staff of the Faculty consisted of 1 Professor, 1 Reader, 2 Lecturers, 9 Part-time-Professors, 3 Class III and 3 Class IV employees.

### 5. Important Lectures

The following eminent speakers addressed the students of the Faculty during the year:

<i>Speaker</i>	<i>Subject</i>
1. Principal, M. S. Pandit Shri L. A. Shah Law College, Ahmedabad	The Paths of Law
2. Shri S. M. Shah Formerly High Court Judge, Bombay	Professional Ethics
3. Mr. Cynowicz, Bombay	( i ) Constitution of Israel ( ii ) Judicial system of Israel
4. Principal, T. K. Tope, Government Law College, Bombay	Indian Legal Theory

## CHAPTER XVIII—ORIENTAL INSTITUTE

When the Oriental Institute was taken over by the University in 1949, it had a good record of publications—109 volumes in the Gaekwad's Oriental Series and 516 other books. By the end of March, 1964, the number of publications in the various series, from the Oriental Institute is 38 in Gaekwad's Oriental Series and 82 other books. The main work of the Institute is research and publications of unpublished important works carried on with the help of a very big collection of manuscripts and the collection of printed books on all subjects related to Indology.

The publications are under the following titles:

- (1) Gaekwad's Oriental Series
- (2) M. S. University Research Series
- (3) Journal of the Oriental Institute (Quarterly)
- (4) Gujarati Journal 'Svadhya' (Quarterly)
- (5) M. S. University Oriental Series (published in the Journal of the Oriental Institute)
- (6) Critical and Illustrated Edition of the Valmiki Ramayana
- (7) The Maharaja Sayajirao Memorial Lecture Series
- (8) Shri Sayaji Sahityamala
- (9) Shri Sayaji Balajnanamala
- (10) Shri Sayaji Gramavikasamala
- (11) Shri Shishujanamala.

### 2. Post-graduate Teaching

Besides the above, as a part of the scheme of co-ordination of the teaching of 14 Shastras in the University, 8 members of the Institute are recognised as Post-graduate teachers in Sanskrit and Gujarati for guiding M.A. and Ph.D. students.

During the year, the Director, the Deputy Director, the Head of the Ramayana Department and other recognised teachers of the staff of the Institute guided in all 14 Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture, and 78 M.A. students in Sanskrit and Gujarati. The teaching of Prakrit as a subordinate subject at B.A. and M.A. level was introduced this year by the University.

### 3. Staff

During the year, the staff consisted of 1 Director, 1 Deputy Director, 4 Research Officers, 9 class III and 6 class IV servants, as also the members of the Ramayana Department—1 General Editor and Head of the Ramayana Department, 1 Assistant Editor, 2 Proof readers, 16 Critical Apparatus Writers, 2 class III and 2 class IV servants.

## 4. Library

### (1) Manuscripts Section:

This section has already a collection of 22,550 MSS in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian languages. Of these 1,069 were added during the year, out of which 187 were purchased and 882 were received as gift from (i) Shri Kanaiyalal D. Dave of Chandod, (ii) Shri Someshvar Nanabhai Pathak of Baroda, (iii) Yati-shri Hemachandraji of Baroda, (iv) Shri Gordhandas Ranchhodadas Modi of Baroda and (v) Shri Ratilal Girdharlal Shukla of Karanali.

During the year, 58 MSS were lent to outside institutions, 29 to local scholars and 159 were issued for work on the premises of the institute, while 10 MSS were borrowed from outside institutions. During the year Shri M. R. Nambiyar was deputed to collect and acquire MSS from Kerala in South India. He purchased 149 MSS for the institute.

The MSS collection of the Oriental Institute is becoming richer by the addition of new collections every year and includes several MSS of historic value for their subject-matter and for the historical information that they offer through their colophon entries. There are MSS in almost all the scripts of India including Persian and Arabic as well. The MSS collection of the Oriental Institute can easily be developed as an archival collection of national importance.

### (2) Printed Books Section:

The institute has a well-equipped Library having a collection of 25,698 books.

### (3) Acquisition Notes:

(i) Books: This year the library received a grant of Rs. 6,000 for Printed Section and Rs. 500/- for Ramayana Department from the University Grants Commission for the purchase of books and periodicals. The grant received from the University was fully utilised and the grant received from the University Grants Commission was partly utilised.

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

	Books including bound periodicals	Total value in Rupees
Total number of Volumes at the beginning of the year	24,690	2,25,241-78
Numbers added during the year	1,008	10,355-99
Total	25,698	2,35,597-67

Out of the total number of books added during the year, 529 books were purchased at the cost of Rs. 8,260-89 and 419 books including periodicals were received as gifts and on exchange basis.

(ii) Periodicals: The total number of periodicals and scholarly Journals subscribed for and received on an exchange basis now stands at 255. About 196 volumes of bound periodicals were added to the stock during the year.

### 5. Publications

#### (1) Gaekwad's Oriental Series:

Editing and publication of the Series is one of the main activities of this institute. Uptil now 144 volumes have been published under this series.

During the year the following works were published:

- (i) GOS No. 141 —Nrtiyadhya by Dr. Priyabala Shah (financed by the Sangeet Natak Akademy, New Delhi)
- (ii) GOS No. 142 —Dhurtaswamibhasya on Apastamba Sruta Sutra, Vol. II by Sarva Shri Chinnaswami Sastri and Pattabharam Shastri
- (iii) GOS No. 143 —Rasakaumudi by Dr. A. N. Jani (financed by the Sangeet Natak Akademy, New Delhi)
- (iv) GOS No. 144 —Mallapurana by Dr. B. J. Sandesara and Dr. R. N. Mehta.

#### (2) M. S. University Oriental Series:

Advayasiddhi by Miss Malati Shendge—published in a book-form as no. 6 of this series.

### 6. Translation Branch

This branch of the Institute carries on the publication work of the series 6 to 11 mentioned in para 1.

The following books were published during the year:

- (1) *Shri Sayaji Sahityamala:*  
'श्री हरिभद्रसुरि' by Professor H. R. Kapadia
- (2) *Shri Sayaji Gramavikasamala:*  
'समाजशिक्षण' by Shri S. H. Shah
- (3) *The M. S. Memorial Lectures Series:*  
(i) 'आनन्दमीमांसा' by Professor R. C. Parikh  
(ii) 'Natural Resources and their Planned Utilisation' by Shri M. S. Thacker  
(iii) 'Ancient Indian Colonization in South-East Asia' (IInd Revised Edition) by Dr. R. C. Majumdar  
(iv) 'Environment of Early Man with Special Reference to the Tropical Regions' by Dr. F. E. Zeuner

The sale of all the publications is managed by the University Publications Sales Unit, Baroda since December, 1959.

### 7. Publications by the Members of the Staff

#### (1) Books:

Author	Title	Where published
1 Dr. B. J. Sandesara	महपुराण (Edited in collaboration with Dr. R. N. Mehta)	Gaekwad Oriental Series no. 144, Oriental Institute, Baroda
2 Prof. G. H. Bhatt	Editing of the Critical Edition of the Aranyakanda with introduction and notes	Oriental Institute, Baroda
3 Shri J. S. Pade	Editing of Natyasastra of Bharata with Abhinavabharati, Vol. IV, pp. 400-514 already printed	Oriental Institute, Baroda

#### (2) Articles/Papers:

Author	Title	Where published
1 Prof. B. J. Sandesara	(i) खंभातना ग्रंथभंडारो (ii) विद्यावारिधि श्री हेमचन्द्राचार्य (iii) गुजरात विषे ईच्छनबतुता (iv) जैन आगम साहित्यमां खनिज तेलनो उल्लेख (v) हीराणंदकृत वस्तुपालरास (vi) मोगलकालीन गुजरातना वे वीर मुत्सद्दीओ-महेता ईश्वरदास अने राजा छबिलराम	बुद्धिप्रकाश, मे, १९६३ रुचि, सप्टेम्बर, १९६३ नवचेतन ऑक्टोबर-नवेम्बर, १९६३ गुजराती साहित्य परिषद, कलकत्ता अधिवेशन निबंध संग्रह स्वाध्याय, पुस्तक १ अंक १ स्वाध्याय, पुस्तक १, अंक २
2 Dr. U. P. Shah	(i) हिन्दी सूफी काव्योमां हिन्दु धर्मेनी असर (ii) हुकमरजाईचल्लणा (iii) चाचर-चर्चरी-एक अध्ययन (iv) गौर्जर अपभ्रंश विषे वधु	बुद्धिप्रकाश, जुलाई, १९६३ हिंदु मिलन मंदिर, दीपोत्सवी, सं. २०१९ स्वाध्याय, दीपोत्सवी अंक पु. १, अंक १, सं. २०१९
3 Shri J. S. Pade	प्राचीनकालमां गुजरातमां बोलाती संस्कृत भाषा	Svadhyaaya Vol. I, no. 2, Oriental Institute, Vasantapancami Anka, V.S. 2020
4 Shri J. P. Thaker	(i) Peacock: The National Bird of India (ii) Peacock: The National Bird of India (revised enlarged) (iii) भारत-रत्ननी समीक्षा (iv) श्री चिमनलाल डाह्याभाई दलाल : एक सरणांजलि	'Pavo', Baroda, Vol. I, no. 1 Journal of the Oriental Institute, Vol. XII, no. 4, Svadhyaaya, Baroda, Vol. I, no. 1 Svadhyaaya, Baroda, Vol. I, no. 2

Author	Title	Where published
5 Shri B. L. Shanbhogue	( i ) Sisuprabodha Kavyalankara of Punjaraja	Journal of the Oriental Institute, Vol. XII-3 and XIII-2
	( ii ) Jayosmadeeyah (a short poem in Sanskrit)	Saraswati Saurabham, Sanskrit Vidvatsabha, Baroda
6 Dr. S. D. Parekh	( i ) लोकविद्या अने लोकवार्ता	Vidyapitha, Ahmedabad, March-April, 1963
	( ii ) भारतीय कथा साहित्यनुं प्रधान कथाघटक परकायाप्रवेश	Hindu-Milan Mandir, October, 1963
	( iii ) कनी, कन्या	Svadhyaaya, Baroda, Vol. I, no. 1
	( iv ) शलाकापुरनुं शक्य अर्थघटन	Svadhyaaya, Baroda, Vol. I, no. 2
	( v ) लोकवार्ताना घटकत्वो	गुजराती साहित्य परिषद निबंध संग्रह, १९६३

#### 8. Ramayana Department

During the year under report the Aranyakanda ( Sargas 1-71 with 18 appendix passages, Critical Notes, Concordance and Introduction ) was published. As regards the Editorial work, the whole text of the Kishkindhakanda has been constituted by the Editor, Principal D. R. Mankad. The press-copy of the Critical Apparatus for the whole kanda is prepared except for Sargas 42 and 66. Pages upto 104 ( St. 38 of Sarga 17 ) are printed. The Editor of the Sundarakanda Professor G. C. Jhala constituted the whole text and rough work of the Critical Apparatus upto Sarga 60 is over. The Editor of Yuddhakanda Dr. P. L. Vaidya has constituted Sargas 47-55 ( 59-67 vulgate ). The General Editor has scrutinised the whole Sundarakanda text constituted by the Editor. The Collation of two Nepali MSS Nl. 2 ( Microfilms ) has been done upto Sargas 32 and 108 respectively.

#### 9. Journal of the Oriental Institute

The Institute has regularly published a quarterly Journal. During the year Vol. XII nos. 3 and 4 and Vol. XIII nos. 1 and 2 were published. 70 subscribers were registered during the year and 212 copies were sent in exchange basis. The Journal is specially devoted to research studies in Indology and also includes literary papers on Ramayana and allied topics concerning the epics and puranas.

#### 10. Gujarati Journal ' Svadhyaaya '

The Institute has recently started a new Gujarati Quarterly ' Svadhyaaya '. Nos. 1 and 2 of Vol. I were published during the year. The journal has been well received by scholars and reviewers and it is also getting increasing response by way of subscriptions. For a long time, there was a vacuum regarding a Journal in Gujarati devoted to research papers in Humanities and Sciences. This Journal

is started to remove this vacuum. It is also intended to help writing in regional language in humanities and sciences so that a proper terminology is evolved which would facilitate higher teaching through medium of regional language.

#### 11. Other Activities

The scheme of inviting Professors was continued and the following lectures on different subjects were arranged during the year:

Name of the Lecturer	Subject	Date
( 1 ) Dr. V. Venkatachalan	A New Approach to Kalidasa	25-6-1963
( 2 ) Shri S. R. Tikekar	Method of Research of Dr. P. K. Gode	12-8-1963
( 3 ) Professor Dr. Berger	H. Grassmann and A. Ludwig—the German translators of the Rigveda	13-12-1963
( 4 ) Dr. J.A.B. Van Buitenen, Professor, Department of South Asian Studies, University of Chicago, U.S.A.	( i ) Maitrayaniya Upanisad	17-1-1964
	( ii ) Vedanta Philosophy of Bhaskar	18-1-1964
( 5 ) Dr. Chandrabhal Tripathi, Lecturer, Institute of Indology, University of Gottingen, West Germany	Buddhist MSS from Central Asia	20-1-1964

The institute has been in charge of the scheme of preparing text-books in regional languages. Under the scheme one book ' नीतिशास्त्र ' by Dr. B. G. Desai was published.

#### 12 Other Important Events

( 1 ) The Senior Research Fellowships of Rs. 500 p.m. to Dr. ( Miss ) Surbhi Trivedi and Honorarium of Rs. 4,000 to Dr. P. M. Modi under the scheme ' Utilisation of services of Retired Teachers ' were continued by the University Grants Commission during the current year.

( 2 ) The Scheme ' Collection, Preservation and Utilisation of manuscripts ' approved at a cost of Rs. 16,200 by the University Grants Commission was implemented during the year.

( 3 ) The University Grants Commission approved a grant of Rs. 62,000 for publication of Gaekwad Oriental Series on a sharing basis of 50% by them and 50% by State Government. A grant of Rs. 5,000 for purchase of books was also sanctioned on 100% basis by the Commission.

CHAPTER XIX—COLLEGE OF INDIAN MUSIC,  
DANCE AND DRAMATICS

1. Courses of Studies

The College offers the following courses:

M. Mus:	Music, Dance, Dramatics
B. Mus:	Music (Vocal and Instrumental: Sitar, Violin, Dilruba, Tabla), Dance (Bharat Natyam, Kathak), Dramatics
Post-Diploma:	Dancing (Kathak, Bharat Natyam)
Diploma:	Music (Vocal and Instrumental: Sitar, Dilruba, Violin, Tabla), Dance, Dramatics

2. Number of Students

The number of students enrolled in the various classes for the year 1963-64 was as under:

Year/Class	Men Students	Women Students	Total number of Students
(1) <i>Diploma:</i>			
1st Year	133	76	209
2nd Year	56	51	107
3rd Year	40	41	81
4th year	13	24	37
5th year	16	13	29
Total	258	205	463
(2) <i>Degree:</i>			
1st year	5	5	10
2nd year	3	2	5
3rd year	4	4	8
4th year	5	5	10
Non-Collegiate	2	1	3
Total	19	17	36
(3) <i>Post-graduate Degree:</i>			
Junior M.Mus.	3	—	3
Senior M. Mus.	2	—	2
Total	5	—	5
Grand Total	282	222	504

3. Staff

During the year, the staff consisted of a Principal in the grade of Professor, 1 Hon. Visiting Professor, 2 Honorary Visiting Lecturers, 3 Readers, 11 Lecturers, 4 Tutors, 21 Ustads (Teachers in Music and Dance including part-time teachers), 9 Class III and 10 Class IV servants.

4. Library and Reading-room

The Faculty maintains a Library of books and periodicals pertaining to the various specialisations.

(1) *Acquisition Notes:*

(A) *Books:*

The Library of the College received as usual grant of Rs. 2,000 from the University for the purchase of the Books and Rs. 650 for periodicals. The grant has been fully utilised. In addition a grant of Rs. 5,000 for books and equipment was received from the University Grants Commission under the Third Five Year Plan out of which Rs. 1,107-59 P. were spend for books during the year.

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

	Books	Bound periodicals	Total Value in Rs.
1 Number at the beginning of the year	4,566	424	31,851-84
2 Number added during the year	396	56	2,103-95
3 Number withdrawn from the records	87	—	521-91
	4,875	480	33,433-88

(B) *Periodicals:*

The total number of periodicals subscribed to now stands 45; 56 volumes of bound periodicals were added to the stock during the year.

5. Literary, Cultural and other Activities

(1) The programmes of Music, Dance and Dramatics were arranged by the students and the staff members of the College fortnightly on Saturdays during the whole year.

(2) A cultural programme of Music, Dance and Drama items was presented before the Chief Guest, Professor Humayun Kabir, Minister of Petroleum and Chemicals, Government of India on the 30th November, 1963.

6. Co-curricular Activities

(1) Professor Khan Saheb Maula Baux Jayanti was celebrated on Saturday, the 13th July, 1963.

(2) Ravindra Jayanti was celebrated on the 10th August, 1963. Shri Vishnukumar Bhatt delivered a lecture on 'Tagore's Aesthetics approach to Music and Fine Arts.'

(3) The College celebrated Pandit Vishnu Narayana Bhatkhande Jayanti and Pandit Vishnu Digambar Jayanti celebrations on the 13th and 14th September, 1963.

(4) Nartanacharya Maharaj Bindadinji and Pandit Jailalji Jayanti was celebrated on the 30th September, 1963 by presentation of dance items by the degree and diploma students.

#### 7. Other Important Events

(1) Shri Hanumanprasad of Bombay delivered a lecture on 'Kathak Gharana and Technique' in the College Play Box on the 8th February, 1964 and gave demonstrations of Thumri Bhava on the 9th February, 1964.

(2) Shri Jagannath Prasad of Bombay gave a Vocal Recital on the 8th February, 1964 and gave a lecture demonstration on Bandish in Khyal and Thumri on the 9th February, 1964.

## CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA, BARODA

### 1. Courses of Studies

The institution offers courses in four stages as under:

(1) Vachaspati: A research course of two years' duration for the higher Post-graduate Research degree of 'Vachaspati' has been instituted in this institution for those who have passed the Acharya examination of this University or its equivalent.

(2) Uttamaksha or Special Pandit course of four years' duration is split up into two courses—the Shastri course (degree course) extending over the first two years and the Acharya course (Post-graduate degree course) extending over the last two years in the subject of (i) Vyakaran Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Nyaya and Vaisheshik Darshan, (vi) Sankhya Yoga and Vedant Darshana and (viii) Purva Mimansa Shastra. Only the first four branches worked during the year under report.

(3) Madhyama Kaksha course of five years' duration leads to the diploma of 'Visharad' in each of the two branches of (i) Grammar and Literature and (ii) Astrology and Astronomy with English upto the S.S.C. standard compulsory for both the branches.

(4) Pratham Kaksha or Certificate course is of three years' duration in each of the branches of (i) Yajurveda Yajniki, (ii) Rugveda Yajniki and (iii) Purana with grammar and literature compulsory for all branches.

### 2. Number of Students

#### (1) Pratham Kaksha

	Men	Women	Total
First Year	11	3	14
Second Year	9	—	9
Third Year	12	1	13
Total	32	4	36

#### (2) Madhyama Kaksha (Visharad)

First Year	6	2	8
Second Year	8	—	8
Third Year	1	1	2
Fourth Year	2	—	2
Fifth Year	1	—	1
Total	18	3	21



## CHAPTER XXI—PREPARATORY UNIT

### 1. Courses of Studies

The Unit provides Preparatory Courses of one year's duration each in Arts, Science and Commerce.

### 2. Number of Students

The number of students enrolled in the different classes at the commencement of the year 1963-64 was as under:

Class	Men	Women	Total
1. Preparatory Courses in Arts	271	290	561
2. Preparatory Courses in Commerce	448	25	473
3. Preparatory Courses in Science	648	92	740
Total	1367	407	1774

### 3. Staff

There are on the staff of the Unit a Principal, 7 Class III and 11 Class IV servants. The teaching work is shared by the teachers of the Faculties of Arts, Science, Commerce and the Department of General Education. About 108 teachers from the various departments participated in Preparatory work ranging from 2 to 4 periods per week. The special feature of the Preparatory work for the last two years is the preparation of special exercise and reading material which has proved very useful. The English exercises are now being printed in the book-form for the use of students.

### 4. Library

Under the University scheme of amalgamation of libraries of institutions, the library of this Unit was amalgamated with the main University Library. New books are being added of the value of Rs. 2,000/- every year. Books are selected particularly suited to the capacity of the Preparatory students in English, Indian Languages, Social Studies and Science. Some periodicals are being supplied for the Teachers' Common Room also by the University Library. Reading room and facilities of the Library room are also made available in the General Education Centre.

## CHAPTER XXII—POLYTECHNIC

### 1. Courses of Studies

The Polytechnic offers the following Diploma Courses in Engineering:  
Diploma: Civil, Electrical and Mechanical Engineering.

### 2. Number of Students

The number of students enrolled in various courses at the commencement of the year was as under:

	Men	Women	Total
<i>I. First Year Diploma</i>			
1. Civil Engineering	134	—	134
2. Mechanical Engineering	155	—	155
3. Electrical Engineering	104	3	107
Total	393	3	396
<i>II. Second Year Diploma</i>			
1. Civil Engineering	120	—	120
2. Mechanical Engineering	116	—	116
3. Electrical Engineering	118	—	118
Total	354	—	354
<i>III. Final Year Diploma</i>			
1. Civil Engineering	73	—	73
2. Mechanical Engineering	118	1	119
3. Electrical Engineering	119	1	120
Total	310	2	312
Grand Total	1057	5	1062

### 3. Staff

During the year under report, the staff of the Polytechnic consisted of one Principal, 2 Professors, 2 Readers, 16 Lecturers, 33 Senior Instructors, 4 Junior Instructors, 47 Class III and 51 Class IV servants.

### 4. Library

The institution maintains a Library of books and journals pertaining to the various specialisations.

#### (A) Acquisition Notes:

(1) Books: The books and periodicals were purchased from the recurring grant of Rs. 12,000. An amount of Rs. 1,500 for books and periodicals for 60 students was provided in the revised budget this year and it has been fully utilised.

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

	Books and bound periodicals	Pamphlets	Manuscripts, Maps, Charts, etc.	Total value in Rs.
Number at the beginning of the year	5210	—	—	86,968-98
Number added during the year	654	—	—	13,245-54
Number withdrawn from the record	10	—	—	94-62
	5854	—	—	1,00,119-90

(2) Periodicals: The total number of periodicals and journals subscribed for now comes to 59. The number of volumes of bound periodicals added to the stock of books during the year was 151.

#### 5. Laboratories and Workshops etc.

Out of the amount of Rs. 10,82,000 sanctioned by the University Grants Commission for equipment, furniture and books, Rs. 22,778-55 were spent during the year under report and the total amount spent from this grant upto the end of the year is Rs. 10,61,788-30.

#### 6. Publications by the Members of the Staff

##### (1) Books:

Names	Title	Names of the publishers
Shri R. C. Patel	Elements of Electrical Engineer- ing	Acharya Book Depot, Baroda
Sarvashri R. C. Patel and S. C. Sheth	Mechanical Technology Vol. I and II	
Sarvashri R. C. Patel and B. M. Patel	Hydraulic Machines	
Sarvashri R. C. Patel and C. J. Karma- chandani	Elements of Heat Engines Vol. I, II and III	

#### 7. Other Important Events

As per the scheme of the Government of India, the Part-time Diploma Courses in Civil, Mechanical and Electrical Engineering, each of four years' duration were started in the Polytechnic from the 10th December, 1963. The sanctioned intake of admissions is 100 students, *i.e.* 20 in Civil, 40 in Mechanical and 40 in Electrical Engineering. The Government of India has sanctioned the non-recurring grant of Rs. 50,000 for library, furniture and equipment, etc. and recurring grant of Rs. 1,70,000 for staff and contingencies, etc.

## CHAPTER XXIII—SHRIMATI HANSA MEHTA LIBRARY

### 1. Acquisition Notes

#### (1) Books:

An amount of Rs. 1,50,000 for Humanities and Social Sciences and an equal amount for Science subjects has been approved for purchase of books by the University Grants Commission for the IIIrd Five Year Plan period. Out of it, the second instalment of Rs. 60,000 (Rs. 30,000 for books and journals on Humanities and Social Sciences and Rs. 30,000 for books and journals on Scientific subjects) received in the last year was fully utilized during the year. The University Grants Commission therefore, sanctioned the third and the fourth instalments of Rs. 25,000 each for books and journals on Science subjects out of which Rs. 24,711-27 have already been utilized during this year.

The departmental grants sanctioned by the University Grants Commission in the last year for books and journals which are to be used during the IIIrd Plan period, are being utilized as requisitioned by the Departments.

The Library also received as usual a grant of Rs. 30,000 from the University for the purchase of books and periodicals and the same has been fully utilized.

There have been some noteworthy additions during the year *viz.*, The World Book Encyclopaedia, 1960, 20 vols.; Bibliography of Birds by R. M. Strong, 4 pts.; Advances in Clinical Chemistry ed. by H. Sobotka, 1958-1961, 4 vols.; Halsbury's Laws of England, 41 vols.; The Cold War and its Origins, 1917-1960 by D. F. Fleming, 2 vols.; Recent Advances in Conservation, contributions to the IIC Home Conference, 1961 by G. Thomas; Petroleum Exploration Handbook, ed. by G. B. Moody; British Technology Index, 1962; Techno-Economic Survey of Gujarat; Techno-Economic Survey of Maharashtra; The Decisive Battles of the Western World and their influence upon History by J.F.C. Fuller, 3 Vols.; Proceedings of the 5th International Congress of Biochemistry, Moscow, 1961, 9 Vols.; Advancing Frontiers of Plant Sciences, Vols. 1-6; Advances in Applied Microbiology ed. by W. W. Umbreit, Vols. 1-4, 1959-1962; The Harper Encyclopaedia of Science ed. by J. R. Newman, 4 Vols.; The Atlas of Britain and Northern Ireland, ed. by G. E. Blackman and others; The Diary of Samuel Papys ed. by H. B. Wheatley, 8 Vols.; Whitaker's Five Year Cumulative Books List; The History of English Novel, 1960-61 by E. A. Baker, 10 Vols.; Scrutiny, a quarterly Review 1958-1962; Commentarii Mathematici Helvetici, Vols. 1-29; Archiv der Mathematik, Vols. 1-10; Mind, 1957-1961; Akkiv fur Mathematik, Vols. 1-3.

Dr. Jivraj Mehta, former Chief Minister of Gujarat State, and present High Commissioner for India in United Kingdom presented his collection of

1005 books and other publications consisting of reports, pamphlets, etc. as gift to the Library.

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

Institution	Number of Books
Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law and the Department of Museology)	6,983
Department of General Education and the Preparatory Unit	873
Faculty of Technology and Engineering	1,239
Faculty of Fine Arts	152
Faculty of Home Science	281
Chetan Balwadi	77
Faculty of Social Work	274
College of Indian Music, Dance and Dramatics	396
Oriental Institute (Printed Section)	1,008
Polytechnic	654
Sanskrit Mahavidyalaya	102
<b>Total</b>	<b>12,039</b>

Out of these books, 2590 were received as gift.

The following statement gives the details of the books' stock of Shrimati Hansa Mehta Library during the year:

	Books	Bound volumes of periodicals	Pamphlets	Manuscripts	Maps, charts,	Total value in Rupees
Number at the beginning of the year	1,79,730	18,429	8,001	213	672	25,78,836-51
Number added during the year	6,983	1,729	936	—	24	1,83,978-13
Number withdrawn from the records	639	—	—	—	—	4,050-96
Number remaining at the end of the year	1,86,074	20,158	8,937	213	696	27,58,763-68

(2) *Periodicals:*

The total number of periodicals and scholarly journals subscribed to now stands at 1,214; 1,729 volumes of periodicals bound were added to the stock during the year.

## 2. Cataloguing

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

(A) Books classified and catalogued during the year:

(1) New accessions in Shrimati Hansa Mehta Library	6,983
(2) New accessions in the Faculties	5,056
<b>Total</b>	<b>12,039</b>

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

	Shrimati Hansa Mehta Library	Faculties	Total
(1) Cards typed	17,457	22,752	40,209
(2) Cards filed in the catalogue	17,457	22,752	40,209

## 3. Circulation of Books, etc.

As usual the working hours of the library for the whole academic year *i.e.* from April, 1963 to March, 1964 (except for the months of May and June) were from 8-00 a.m. to 10-00 p.m. It also remained open on almost all Sundays and holidays during the academic year. In the months of May and June 1963, the Library remained open for twelve hours a day *i.e.* from 8-00 a.m. to 8-00 p.m.

The number of registered readers in various categories were as follows:

(1) Post-graduate students	1,172
(2) Undergraduate students	6,311
(3) Research students, scholars and Research assistants	89
(4) University teachers	699
(5) Others	524
<b>Total</b>	<b>8,795</b>

The statistics of the use of the library are given below:

(1) Daily average number of readers visiting the library	2,100
(2) Total number of books issued per day for reading	
(a) Average number of books issued per day for home reading for general collection	350
(b) Average number of books issued per day from Curricular Section	681
(c) Average number of books issued per day for reference	204
<b>Total</b>	<b>1,235</b>
(3) Average number of books issued per reader in the year	41

#### 4. Reference Section

##### (1) Exhibitions:

This year the Reference Section organised three exhibitions of noteworthy books on (a) Gujarat and its development projects, (b) Some noteworthy books on General Education and (c) Navbharatnu-Nirmana.

##### (2) Bibliographical Activity:

The following bibliographies were compiled during the year in response to requests from readers:

- ✓ (a) Bibliography on the costumes of Gujarat and the relevant cultural aspects
- (b) List of dissertations for pre-primary education etc. in Baroda, in Shrimati Hansa Mehta Library
- ✓ (c) List of books and periodicals on transport (Air, Rail, Road)

The Reference Section has also prepared a cyclostyled copy of a descriptive list of the Ph.D. thesis accepted by the Maharaja Sayajirao University of Baroda upto October, 1963. The list is distributed to various Universities and Institutions.

For the convenience of readers making queries regarding books, periodicals, etc. and for reference or bibliographical work, these activities are now centralised.

#### 5. Teaching of Library Science

Sixteen students were admitted in the course this year. Fourteen students appeared at the Diploma in Library Science examination out of which seven came out successful.

#### 6. Other Activities

- (1) Dr. C. P. Shukla went as a delegate to the 5th IASLIC Conference held at Poona University during October, 1963. He acted as Director of symposium 'The problems and prospectus of Library Associations in India'.
- (2) The following articles were contributed by Dr. C. P. Shukla:
  - (i) "The library committee and the librarian in Indian Universities"—Library Herald, July and October, 1963.
  - (ii) "The documentation services in India"—Indian Librarian, March, 1964.

### 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 Press Manager, a Senior Clerk Accounts-cum-Store-Keeper, one Head Proof-Reader, one Senior Proof-Reader, one Junior Proof-Reader and one Clerk. There are 34 permanent workers in the Press.

#### 2. Machinery

The University Press has machinery worth about Rs. 1,91,412 including machines purchased from the grant of the University Grants Commission. The new machinery purchased out of the grant of Rs. 1,19,350 has been installed and used since 1961-62.

#### 3. Printing Activities

During the year, 736 plus 124 examination papers were printed under conditions of secrecy for the University Examinations. The Press also printed Syndicate and Senate Proceedings, Hand-Book, Annual Report, Annual Accounts, Budget Estimates, Establishment Lists, Pamphlets, Certificates, General forms, Lists, Prospectus, Questionnaires, Magazines, etc. of the University and its Faculties and Institutions.

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

<i>Name of book</i>	<i>Publisher</i>
Ramayana Critical Edition—Vol. III Aranyakanda	Ramayana Department
Ancient Indian Colonization in South- East Asia	Oriental Institute
Health and Ailments of M. S. Univer- sity Alumni (Five years)	Department of Statistics
श्री हरिभद्रसूरि	Oriental Institute
समाजशिक्षण	Oriental Institute
Administrative Problems in the Indian Museums	Department of Museology
Difficult Topics in Science Teaching— A Report	Extension Service Department

<i>Name of book</i>	<i>Publisher</i>
"Your Health," Symposia Series No. 15 Lack of Proper Sex Education and the Student Problems	M. S. University of Baroda Students Counselling Centre
Fourteenth Annual Report आनंदमीमांसा	M. S. University of Baroda Oriental Institute
Natural Resources and their planned Utilization	Oriental Institute
Annual Report	TAIRO
A Survey of the Living Conditions and the Problems of M. S. University Students	Department of Psychology
Some Concepts and Terms in Educa- tional Administration	Faculty of Education and Psychology Students Counselling Centre
A Report of the Administration of Family Attitude Test to sixty Remand Home Children	M. S. University of Baroda Department of Hindi
Handbook Part I अक्षयरस (अखानीवानी)	Oriental Institute
Rasakaumudi	Faculty of Education and Psychology
Exploratory Longitudinal Studies of Children in the University Experi- mental School—Grades I and IV	Faculty of Home Science
Abstract of M.Sc. Thesis	M. S. University of Baroda
Objectives of Medical Education— Symposia Series 16	Oriental Institute
म्हारां सोनेट	Faculty of Social Work
Report of Faculty-Agency Seminar (1963)	Faculty of Social Work
Report of Faculty-Agency Seminar (December, 1962)	Faculty of Arts
Social Change and College Students of Gujarat	Oriental Institute
Mallapurana	Faculty of Education and Psychology
Research Abstract	

<i>Name of book</i>	<i>Publisher</i>
The Gujarati Consonants	Faculty of Education and Psychology
Interviewer Bias An Experimental Study Some of Its Sources	Faculty of Education and Psychology
Our Ports	Faculty of Commerce
काव्य प्रभाकर	Department of Hindi
Museums and Society	Department of Museology

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

The Journal of Maharaja Sayajirao University (Science, Humanities and Social Sciences); The Journal of Animal Morphology and Physiology (Half yearly); The Journal of Oriental Institute (Quarterly); The Journal of Association of Principals of Technical Institutions, India (Quarterly); The Education and Psychology Review (Quarterly); PAVO (Half Yearly); स्वाध्याय (Quarterly)

#### 4. University Stationery Unit

This Unit is a service department of the University and is under the supervision and control of the Manager, University Press. It purchases and distributes stationery every quarter to all the Faculties, Institutions and the University Office. A special staff—one Senior Clerk, one Stationery Stock Assistant and one Stationery Distributor—is provided for this Unit. During the year stationery worth Rs. 1,13,074 was purchased and stationery worth Rs. 1,28,063 was distributed. A 3-wheeler Lambretta is used for distribution work.

#### 5. University Publication Sales Unit

This Unit was started in November-December 1959, under the control and supervision of the Manager, University Press. The establishment consists of a Senior Clerk, a Clerk and an outdoor-work Assistant/Attendant. The Unit took over the stock of books from the Oriental Institute and also from some Faculties. It is working as Book-Shop for University publications. The total sale of books during the year was Rs. 56,351.

## CHAPTER XXV—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

The Maharaja Sayajirao University Students' Union embodies the creative functions of residential university life, reflecting the corporate spirit in a co-operative endeavour. It is a body devoted to cultural and constructive programme. The students of the University, irrespective of their diverse academic pursuits imbibe the feeling of organic unity and a sense of belonging.

When the academic year 1963-64 opened Professor N. S. Pandya continued as President of the Union and Shri K. K. Thakore as Treasurer. As usual, elections were held on the 13th July and the results were declared on the 14th July, 1963. The following Executive Committee was formed for the year 1963-64:

1. Professor N. S. Pandya	President
2. Shri K. K. Thakore	Treasurer
3. Shri A. N. Parikh	Vice-President
4. Shri J. C. Patel	General Secretary
5. Shrimati Sarlaben Mehta	} Members nominated by the Syndicate
6. Dr. M. P. Shah	
7. Shri Ravindra D. Pandya	
8. Kumari Rekha Dixit	

In addition to the above there were other 21 members who were the representatives of different Faculties and teaching Institutions of the University.

The following members were deputed to the University Students Welfare Board, University Board of Sports and University Students' Aid Fund Committee:

(1) University Students Welfare Board	(1) Shri J. C. Patel
	(2) Shri P. R. Shah
	(3) Kumari Usha Kurian
(2) University Board of Sports	(1) Shri M. L. Surti
	(2) Shri B. Swaminathan
(3) University Students' Aid Fund Committee	(1) Shri A. N. Parikh
	(2) Shri J. C. Patel
	(3) Shri M. L. Shaikh

### 2. Activities of the Sub-Committees

The M. S. University Union Executive Committee formed Sub-Committees for various activities keeping in view the aims and objects laid down in the Constitution of the Union. The various Sub-Committees carried out the following activities during the year.

#### (1) Film Club:

Under the Secretaryship of Shri B. R. Mishra, the activities of the Film Club were organised and 13 films (Hindi as well as English) were screened. Many students and staff members saw the film shows this year.

#### (2) Badminton Committee:

More than 200 students have taken the advantage of the court. One court being insufficient, few open air courts were also started at different faculties. Many students took part in the local tournaments and one of them became 'All Baroda Champion'. As usual the Inter-Faculty Tournament was also organised in which good number of students took part. The Inter-University Tournaments were held at Bombay and our students gave a good show.

#### (3) Debating Society:

This year the Debating Society arranged debates including Trophy debates. All debates were successfully arranged by the Society under the guidance of Dr. B. S. Verma as a Chairman.

#### (4) Indoor Games:

This year more than 500 students took the advantage of the Table Tennis game and there were good number of entries at the Inter-Faculty Tournaments. The Inter-University Tournaments were held at Madras and our student gave a good show.

#### (5) U.N.O. Society:

As usual the committee celebrated the U.N.O. Day. Many symposia were held during the year. A good number of students, staff members and citizens took part.

#### (6) Poor Boys Library:

This library caters to the needs of the poor students of the University. Every year the rush of students is increasing for taking the books, this year more than 500 students have taken the advantage.

#### (7) Discussion Group:

Many discussions were held on different interesting subjects. The attendance of the students and staff in the discussion was good. A good response was received from the staff to initiate the discussion.

#### (8) Entertainment Committee:

The Committee presented one programme in the first term in the Faculty of Technology and Engineering.

#### (9) Hiking Club:

This year two hikes were organised; One to Mandu and Indore on bicycle and the other to Himalaya's Basudhara Peak (18,200 ft.) and Valley of Flowers.

(10) *Bulletin Committee:*

Two issues of 'Students' News' containing articles written by the students and the staff have been published during the year.

3. **University Week Festival**

The 8th Inter-University Youth Festival was held at Delhi. Our University took the part in 'One Act Play', discussions, debate, classical music, vocal and Instrumental, and Classical Dance. One Act Play 'Home and Beauty' by Somerset Maghum was presented by the students. Classical Dance 'Kathak' was presented by Miss Anjali Ambegaonker. She carried away the first prize and was listed in the best item show of the Festival.

## CHAPTER XXVI—GENERAL EDUCATION DEPARTMENT

1. **Brief History**

During the formative years of the University when new Faculties were being established and old ones consolidated, considerable thinking was done on the place General Education should have in the total academic programme of the University. It was felt that while a University should make provision for specialised studies in the various fields of knowledge, it should also provide for the basic requirement, that every student, no matter what his speciality, has some understanding of the physical world in which he lives, an appreciation of the complex social relationships by which he is surrounded and a grasp of human values which can be developed through contact with Art, Literature and the Humanities. In other words, it was necessary to find a place for the element of liberal education alongside highly specialised studies.

To fulfil this need, the University accepted the principle that General Education should be an important complement to specialisation. Accordingly, a beginning was made as early as 1953 when a programme of General Education lectures and discussions was arranged for the Final Year students of the Arts, Science and Commerce degree courses. The results of this exploratory work were encouraging. Members of the staff gained a better understanding of the aims and techniques of General Education through experience of working the pilot project, as well as through visits to foreign Universities and contacts and discussions with experts in the field. As a result, a comprehensive scheme was undertaken from June, 1957 embracing the Preparatory Year Course, the First and Second Year Degree Courses in Arts, Science, Commerce, Fine Arts and Home Science as well as the Pre-Medical year and the First Year of the Engineering Course. The Preparatory Course was re-organised making General Education an integral part of its curriculum.

2. **Organisation**

The Department has a nucleus staff of seven teachers who not only teach, in General Education and the Pre-University classes, but also help in the preparation of reading material and organisation of Tests. The staff consisted of one Co-ordinator, one Joint-Co-ordinator, five Lecturers, three Class III and two Class IV servants. About forty members of the staff from the various departments of the University participated in the preparation of the reading material or assessing test sheets and also shared the teaching work.

3. **Building, Equipment, Books**

The department of General Education which was housed in the Faculty of Education and Psychology has been shifted to the new building. The Ford

Foundation of U.S.A. has given the University a grant of Rs. 4,30,000 U.S.A. dollars for the construction of a new building and for purchase of equipment and books for the General Education Centre. The construction of the building, which is estimated to cost about Rs. 15 lakhs, was started in the year 1957-58. An expenditure of about Rs. 17,89,993 has been incurred upto the 31st March, 1964 on construction of building, purchase of equipment and furniture and acquisition of books.

#### 4. Students under the Programme

The number of students who came within the scope of the General Education programme during the year is as under:

Course	Number
(1) Preparatory Courses:	
Arts	561
Science	740
Commerce	473
	1774
(2) Degree Courses:	
Arts	701
Science (including Pre-Medical)	490
Commerce	761
Technology and Engineering	431
Fine Arts including Music College	60
Home Science	219
	4436

#### 5. Syllabus

At the preparatory stage, the Arts and Commerce students take a course in General Science and all students take a course in Social Studies.

The General Education syllabus for the First and Second Years of the degree courses in Arts, Science, Commerce, Fine Arts, Home Science, and for the First Years of the Medical and Engineering Courses consists of an integrated programme of lectures and discussion on selected themes from the three broad fields of Humanities, Social Sciences and Natural Sciences. This syllabus is so arranged that a student specialising in any one of these fields, receives General Education in the other two fields. Thus, for instance, Science, Engineering and Medical students receive General Education in Humanities and the Social Sciences. Similarly, Arts and Commerce students receive General Education in Natural and Social Sciences.

The topics included in the broad fields have been gradually formulated over the last ten years and are being modified in the light of new experience. A broad outline of the syllabus for the degree course students is given below:

#### A. Humanities:

##### (i) Literature I:

Readings from Modern Indian Literature—Selected passages from Hindi, Gujarati, Marathi (along with English rendering) Milestones in the development of Indian Literature in the Post-Mutiny period (1857-1957) with special reference to the study of novel, drama and poetry.

##### Literature II:

Readings from Drama, (Sanskrit and English) Comparative Study of theatre and Drama: with reference of Kalidasa, Bhavabhuti, Shakespeare, Sophocles and Ibsen.

##### (ii) Fine Arts:

Development of Art Forms from the earliest time to the present day—How to appreciate Art.

##### (iii) Philosophy:

Selected readings from the works of philosophers on 'the concept of the highest good'.

##### (iv) World History:

Pre-history—Early civilizations—Early European civilizations—Religious Systems. The Middle Ages—The Renaissance—Science and Industrial Revolution.

#### B. Social Sciences:

##### (i) Social Problems:

Our present society: the contemporary pattern of the family, caste and marriage: Urban Communities.

Group behaviour—behaviour traits—attitudes—social conflict—prejudice and tensions—social control.

##### (ii) Political Science:

Problems of Indian Democracy—International politics.

Political Doctrines—Individualism, Idealism, Fascism, Socialism and Communism.

##### (iii) Economics:

Indian Agricultural problems—Problems of Indian Industry—Indian Five Year Plans.

#### C. Natural Sciences:

The Nature of Physical Universe: The Solar system and Universe—The Earth—The atmosphere—Air and Water—Matter and Energy—The Atom and Atomic Energy.

Man's Exploitation of the Natural Resources: Power Resources—Agricultural Resources—Mineral Resources—Conquest of space.

D. The following concluding topics are common to the general syllabi of all students of the Second Year Degree Class—(Arts, Science and Commerce):

##### (i) The Scientific Method

##### (ii) Science and Society

##### (iii) Science and Literature

## 6. Methods of Teaching

Each topic is organised into a series of talks by the teacher. Duplicated synopsis of reading material are supplied to each student in order to help him to follow the talks. No text books are prescribed for the General Education Programme but a few reference books are suggested for reading. Short answer tests are also arranged towards the end of the term on courses covered under the programme. The grades obtained are recorded and announced to students. The students are allowed to improve the grade, if it is not satisfactory.

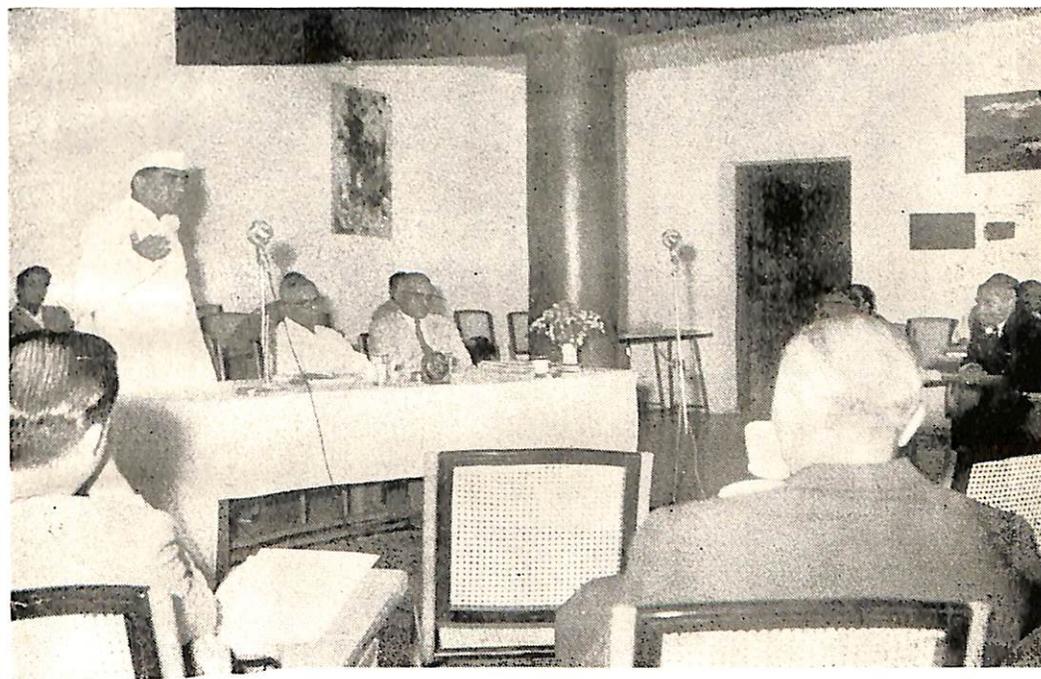
## 7. Grade Requirements

General Education has been made a compulsory part of the curriculum and a satisfactory grade in General Education is necessary in order to pass the final examination of the Faculty. Every class has two to four periods per week on the time-table for General Education. Attendance is compulsory and the requirements are similar to those in other subjects of specialisation. There is no annual examination in General Education as in other subjects; but there are four to six periodical tests from time to time on topics that are completed. The system of marking is: A (very good), B (above average), C (Pass), D (not satisfactory). A record is maintained of the grade obtained by each candidate in the various Tests. Final Grade is given on the basis of the students' performance in periodical tests. D grade denotes failure. A candidate must obtain an over-all C grade to show that he has satisfactorily completed the General Education work of the year.

## 8. Important Events

1. His Excellency Professor G. K. Galbraith, Ambassador of the United States of America in India declared open the new building of the General Education on the 12th April, 1963, went round the building and gave a talk to a fully-packed interested audience under the Chairmanship of Dr. J. M. Mehta, Vice-Chancellor.

2. A seminar on General Education was held between the 10th and the 14th December, 1963 at the General Education Centre, Baroda, with the financial assistance from the University Grants Commission. Dr. J. M. Mehta, Vice-Chancellor of the University inaugurated the Seminar on the 10th December, 1963 under the Chairmanship of Professor Hans Simons, Consultant in General Education of the University Grants Commission. Experts from the Universities of Bombay, S.N.D.T., Gujarat and Sardar Vallabhbhai Vidyapeeth and 42 teachers of various departments of this University participated in the Seminar. They emphasised the need for looking once again into the Pre-University and the three year Degree Programme in order to explore the possibilities of making them more purposeful and also of incorporating the good points of General Education into them.



Seminar on General Education

## CHAPTER XXVII—STUDENTS' WELFARE ACTIVITIES

### 1. Halls of Residence

The University being residential makes constant efforts to increase and improve residential accommodation for its students. At its start in 1949, the University had accommodation for 200 men students in rented buildings and another 200 men students in University owned buildings. There was no hostel accommodation for women students. At the end of the year 1963-64 there are eleven Halls, including one in rented building, for men students and three Halls for women students.

The general policy of the University is to distribute students from various faculties in different Halls so that every Hall has students from different Faculties. The University looks upon this as an important step towards promotion of emotional integration amongst the students and towards awakening their awareness and interests in areas other than their own.

Even though the new Halls were helpful in meeting the new great demand for accommodation to some extent, the procedure of admitting 3 students in one room had to be continued during the year. At the end of the year 1688 men students and 633 women students were in residence in different Halls as against 1527 men students and 575 women students at the end of the previous year.

The following statement gives the break up of these students by Halls and Institutions:

THE MAHARAJA SAYAJIRAO UNIVERSITY HALLS OF RESIDENCE

A Statement of Students admitted in 2nd Term 1963-64

Faculty/Institution	Munshi Hall	Shri Manubhai Mehta Hall	Shri Sardar Patel Hall	Maharshi Aurbindo Hall	Prof. T. K. Gajar Hall	Dr. Jivraj Mehta Hall	Shri Dadabhai Naoroji Hall	Shri Ravindra-nath Tagore Hall	Shri M. Viswasaria Hall	Siddharaj Jaysinh Hall	Shri Keshav Prasad Hall	Total Men	Students	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Total Women	Students	Grand Total
Preparatory Unit	25	24	15	18	45	28	11	32	32	59	—	289	40	19	25	84	373		
Faculty of Arts	3	7	9	7	6	8	8	5	11	15	—	79	45	29	22	96	175		
Faculty of Commerce	4	11	17	8	13	13	5	20	31	21	—	143	1	5	1	7	150		
Faculty of Science	18	18	45	20	20	19	21	22	30	16	1	230	25	12	22	59	289		
Faculty of Education and Psychology	3	1	5	2	16	—	—	—	—	—	—	27	9	4	18	31	58		
Faculty of Technology and Engineering	65	69	44	79	60	51	20	44	39	45	32	548	2	5	2	9	557		
Polytechnic	4	11	3	13	3	5	2	45	32	28	—	146	1	1	—	2	148		
Faculty of Medicine	18	24	4	22	29	46	4	6	2	2	—	157	33	10	4	47	204		
Faculty of Social Work	—	—	17	1	—	2	—	2	4	2	—	28	2	1	8	11	39		
Faculty of Fine Arts	5	5	5	—	2	4	—	3	6	1	—	31	9	2	8	19	50		
College of Indian Music, Dance and Dramatics	—	—	2	—	1	—	—	—	—	—	—	3	1	1	6	8	11		
Faculty of Law	2	3	—	1	—	—	—	—	1	—	—	7	2	—	—	2	9		
Faculty of Home Science	—	—	—	—	—	—	—	—	—	—	—	—	113	68	77	258	258		
<b>Total</b>	<b>147</b>	<b>173</b>	<b>166</b>	<b>171</b>	<b>195</b>	<b>176</b>	<b>71</b>	<b>179</b>	<b>188</b>	<b>189</b>	<b>33</b>	<b>1688</b>	<b>283</b>	<b>157</b>	<b>193</b>	<b>633</b>	<b>2321</b>		

Administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and the Wardens' Committee. All the Halls have been provided with libraries and reading-rooms. Indoor games are also provided. The Health Centre dispenses ordinary medicines and provides treatment to the students of the Halls free of charge. In urgent cases the Medical Officers attend the students in their rooms free of charge. The Medical Officers also visit each Hall once a month to inspect sanitation and the messes.

As usual, cultural and social activities were organised by the following committees of each Hall:

1. Food Committee;
2. Sports Committee;
3. Entertainment and Debate Committee;
4. Reading-room and Library Committee;
5. Health Sanitation Committee.

Meetings and talks were arranged, musical and social evenings were organised and games, tournaments and debates were held during the year. National Days like the Independence Day, Republic Day, Health Day, etc. were also celebrated. A beginning in counselling work was also made in one of the Halls.

2. Health Centre and Medical Examination

The scheme of starting the Health Centre was sanctioned by the University Grants Commission in the year 1959. The cost of the building and non-recurring expenditure for the equipment has been provided by the U.G.C. from the total amount of Rs. 1 Lac. The Centre started functioning from May, 1962. It is housed in a separate building with all the facilities for examination of the patients, dressing and minor surgery, X'ray laboratory work. The staff of the Health Centre consists of one Medical Officer, One Part-time Lady Doctor, One Compounder-Cum-Technician, One Nurse, and two Sweeper-cum-Hamals. The Centre expended an amount of Rs. 204-50 for subscribing to (1) Journal of American Medical Association and (2) Medical Clinics of North America.

The Health Centre provides the preventive and curative services for the students, members of the staff and their families. There is a regular medical check up of the students in the first year and the students in the alternative year by the members of the Medical Inspection Board. The total number of students examined was 3367 out of whom 2526 were men and 841 were women. Out of 1020 students who were advised 'follow up' treatment, 192 were examined and treated at the Health Centre. Miniature chest X'Ray examination was also arranged with the kind help of the Baroda Borough Municipality. Out of 3418 students, 15 cases were suspected of disease. The full size X-ray films of these 15 revealed that 9 students were suffering from pulmonary tuberculosis, one from congenital abnormality of the heart, one student from cystic disease of lungs, two had bronchiectasis and the remaining two were normal. Out of 9 students suffering from pulmonary tuberculosis, 7 are being followed up for treatment at the Health Centre. The remaining two had healed lesions.

Obviously the miniature chest X-ray technique seems to be quite effective in detecting the diseases especially tuberculosis, of the lungs, in its early stage.

100 mess servants were examined to check against evidence of any ailments and infection in the stool. Out of 72 who had undergone miniature chest X-ray examination two were suspected to be suffering from pulmonary tuberculosis. One is followed up for treatment at the Health Centre.

During the year 1963-64, 15208 patients attended the Health Centre Clinic. Out of these total number of students was 10184 (66.97%) and that of members of the staff and their families was 5024 (33.03%). Daily average attendance was 41.6 Total number of Laboratory investigations such as routine examination of the stool, blood, urine, etc. was 700.

X-ray Unit was installed during the year. Fluoroscopy work is being done at present. A paper "Raentgenographic Appearances of the Normal Chest" is accepted for publication in the Journal of Association of Physicians of India. The work regarding the publication of monograph "Raentgenographic appearances of the Normal chest" is in progress. The work "to investigate the Nutritional status of the University students" is in progress.

### 3. Physical Education

#### (1) Staff:

Under the supervision and guidance of the Director of Physical Education who also acts as the Ex-officio Secretary of the University Board of Sports, four Physical Instructors, two Lady Physical Instructors, two A.C.C. Officers, three Swimming Trainers and one Boating Trainer organised and conducted A.C.C. and other Physical Activities.

#### (2) Auxiliary Cadet Corps:

A.C.C. Training is compulsory for women students. In all 318 students were imparted training in Drill, P.T. and Games by 2 Group Commanders, 2 A.C.C. Officers, and 18 Student Leaders. Special training was also given to selected Cadets who took part in the Ceremonial Parades on the Independence Day and the Republic Day.

#### (3) Major Games:

Cricket, Hockey, Football, Volleyball, Basketball, Tennis, Badminton, Table-Tennis, Netball and Throwball were organised and conducted by the Physical Instructors and the Officers-in-charge of Games. More than 350 students participated in these activities.

#### (4) Swimming and Boating:

These two activities were organised and conducted under the supervision of the Officer-in-charge. In Swimming 580 students and in Boating 105 students participated. More than 1000 guests also took advantage of the Swimming Pool.

Annual Boating Competitions were also held on the Republic Day. Dr. C. S. Patel, Pro-Vice-Chancellor, presided and gave away the prizes and trophies to the winners.

#### (5) Annual Sports:

As a part of the University Youth Festival, Annual Sports were held on the 21st, 22nd and 23rd December, 1963 on the Union Pavilion Ground. Students and teachers from various Faculties and Institutions participated in different Track and Field Competitions. General Athletics Championship was won by the Preparatory Unit. Dr. C. S. Patel, Pro-Vice-Chancellor, gave away the prizes and trophies to the winners.

#### (6) Tournaments and Competitions:

The University Cricket, Hockey and Football Teams participated in the League and Knock-out Tournaments held in Baroda. In Senior Hockey League Tournament, our Hockey Team were runners-up and in Football Knock-out Tournament, our Football Team were Jt. winners. University Kho-Kho teams (Men and Women) participated in the Baroda Open Kho-Kho Tournaments. Men's team were winners and Women's team were runners-up in the Tournaments. The Basketball and Swimming teams also took part in the Gujarat State Championship.

Shri A. D. Godse of Faculty of Technology and Engineering won the Triple Crown in the Open Badminton Tournament held at Baroda and also in the Parsi Gymkhana Open Badminton Tournament held at Ahmedabad. Shri Deepak Chavan and Shri Pradeep Sheth were winners in the Doubles of the Baroda Open Table-Tennis Tournaments.

#### (7) Training of University Teams:

The training of various University Teams was organised and conducted by the Physical Instructors, and the Officers-in-charge of Games. Coaches were also engaged to give special training to the Cricket, Tennis, Hockey, Football and Kho-Kho teams.

#### (8) Inter-University Tournaments:

University Cricket, Hockey (Men and Women), Football, Volleyball, Basketball, Tennis, Badminton (Men and Women), Table Tennis (Men and Women) and Swimming teams were sent to participate in the Inter-University Tournaments. The Cricket team defeated Poona University but lost to Dharwar. The Hockey team (Men) lost to Poona University. Our Kho-Kho team (Women) were runners-up in the All India Kho-Kho Tournament held at Ujjain.

#### (9) Inter-Faculty/Institution Tournaments:

Tournaments	Winners	Runners-up
(i) Cricket	Faculty of Commerce	Faculty of Arts

Activity	Winners	Faculty/Institution
(ii) Tennis	Faculty of Technology and Engineering	Faculty of Medicine
(iii) Badminton	Faculty of Technology and Engineering—B	Faculty of Technology and Engineering—A
(iv) Table-Tennis	Faculty of Technology and Engineering	Faculty of Arts

(10) *Individual Championships:*

(i) Athletic	(i) R. Y. Ghatge	Arts
	(ii) Anjani Asgaonker	Preparatory Unit
(ii) Boating	(i) N. R. Halbe	Technology and Engineering
	(ii) Pushpa Gotri	Home Science
(iii) Tennis	(i) K. Surappa	Technology and Engineering
(iv) Table-Tennis	(i) Deepak Chavan	Arts
	(ii) Malti Patel	Arts

(11) *Participation in National Championships:*

- (i) The members of the University Cricket Team represented the Baroda Cricket Association in the National Cricket Championship.
- (ii) Five members of the University Kho-Kho team (Men) represented the Gujarat State in the All India Kho-Kho Tournament held at Indore, Shri Yogesh S. Yadav of the Faculty of Arts was selected as captain of the Gujarat State team. Gujarat won the All-India Kho-Kho Championship.
- (iii) Two members of the University Hockey Team and one member of the University Football Team represented the Gujarat State in the National Hockey and Football Championship respectively.
- (iv) Shri S. P. Gaekwad (Captain of University Cricket team) was selected as member of the Indian Test Cricket team for the two Test Matches against M.C.C. He also played for India against Commonwealth Cricket team at Calcutta.

#### 4. National Cadet Corps

The following N.C.C. Units carried out their usual activities during the year:

- (1) 3rd Gujarat Battalion N.C.C.
- (2) 2nd Gujarat Girls Troop N.C.C.
- (3) 18th Gujarat Engineers Company N.C.C.
- (4) 20th Gujarat Medical Company N.C.C.

- (5) 9th Gujarat Girls Troop N.C.C.
- (6) 17th Gujarat Air Squadron N.C.C.
- (7) 54th Gujarat N.C.C. Rifles Battalion
- (8) 20th Gujarat Signal Company N.C.C.
- (9) 3rd Gujarat Air Squadron N.C.C.
- (10) 61st Gujarat N.C.C. Rifles Battalion.

A report of the activities carried out by each Unit is given below:

(1) *3rd Gujarat Battalion N.C.C. :*

The Unit is a 4 Company Battalion with authorised strength of 15 N.C.C. Officers and 800 N.C.C. Cadets. At present there are 14 N.C.C. Officers and 800 Cadets of different Faculties and Institutions of the University. Besides the Junior Division N.C.C. troop from University Experimental School, there are 8 more such troops and 109 A.C.C. Platoons from other Educational Institutions. The training of the cadets started from the 23rd June, 1963 and terminated on the 30th January, 1964.

Annual Training Camp of the Unit was held at Kadi from the 21st October, 1963 to the 3rd November, 1963. 12 N.C.C. Officers and 573 Cadets attended it. One N.C.C. Officer and 8 Cadets also attended the Annual Training Camp at Khundava in the other State.

Two cadets of the Unit successfully attended Advanced Leadership course held at Kodaikanal from the 15th to the 31st May, 1963. Three Cadets successfully attended the All India Summer Training Camp at Periyanaickenpalayam from the 1st to the 14th May, 1963.

'B' Certificate Examination was conducted on the 30th January, 1964. Out of the 128 Cadets who appeared for the examination, 78 passed. 'C' Certificate Examination was conducted on the 19th February, 1964. 17 Cadets appeared for it. The result was not declared during the year under report.

This year the National Solidarity Day was celebrated on the 20th October, 1963. The cadets of local Units of NCC/ACC participated. A combined ceremonial parade was organised. Dr. J. M. Mehta, Vice-Chancellor took the salute. The Republic Day Parade was held on the 26th January, 1964. Major General Virendra Singh, Director General N.C.C. paid a visit to the Unit on the 3rd August, 1963.

(2) *2nd Gujarat Girls Troop N.C.C. :*

The Unit is accommodated in its own building in the premises of the Faculty of Home Science along with the 9th Gujarat Girls Troop N.C.C.

The strength of the cadets has been increased from 135 to 150. The present strength is 3 N.C.C. Lady Officers and 144 Girl Cadets against the authorised strength of 3 Officers and 150 cadets. The cadets are given training in various subjects like Radio Telephony, Weapon Training, Squad Drill, Signal Training, Sanitation Hygiene and First Aid etc. As the Unit comes in touch with the Air

Force Unit, a few selected cadets are given training in gliding and taught special subjects namely Airmanship, Meteorology, Aeromodelling and Navigation.

Annual Training Camp was held at Pihij (via Nadiad) from the 22nd October, 1963 to the 2nd November, 1963 which was attended by 3 N.C.C. Officers and 112 Girl Cadets. 1 N.C.C. Officer and 33 cadets participated in the ceremonial parade held on the 15th August, 1963. The Unit also celebrated the N.C.C. and the National Solidarity Day on the 20th October, 1963. The Republic Day Parade was held on the 26th January, 1964. One cadet of the Unit participated in the Republic Day Delhi contingent.

Certificate G Part I Examination was held on 1st and 2nd February, 1964 and G Part II Examination was held on the 12th February, 1964. The result is shown below:

Examination	Number appeared	Number passed	Percentage
1. G. Part I	25	16	64%
2. G. Part II	4	4	100%

(3) 18th Gujarat Engineers Company N.C.C. :

This Unit was raised on the 1st December, 1955 with an authorised strength of 60 cadets. It is situated in its own building in the premises of the Faculty of Technology and Engineering.

This Unit has turned into a company having an actual strength of 2 N.C.C. Officers and 200 cadets which is the authorised strength of it. The first parade of the year was held on the 23rd June, 1963 and the training was concluded on the 29th January, 1964. Following subjects were covered during the training:

(i) Drill without Arms, (ii) Drill with Arms, (iii) Weapon Training, (iv) Map Reading, (v) Message writing, (vi) Hygiene and Sanitation, (vii) Citizenship, (viii) Public Speaking, (ix) Corps History, (x) Organisation, (xi) Route March, (xii) Field Work, (xiii) Field Defence, (xiv) Bridging, (xv) Water Supply, (xvi) Rafting and Watermanship, (xvii) Demolition, (xviii) Mines.

Annual Training Camp of the Unit was held at Visnagar from the 22nd October to the 4th November, 1963. One cadet was sent to attend the Advanced Leadership course at Shillong.

'B' and 'C' certificate examinations were held in February and January, 1964 respectively. The result is awaited.

(4) 20th Gujarat Medical Company N.C.C. :

This Unit was started from the 23rd July, 1956. The actual strength of the Unit is 1 N.C.C. Officer and 156 cadets against the authorized strength of 2 Officers and 200 cadets. The Unit started training in the last week of June, 1963 and was continued till the second week of February, 1964.

One N.C.C. Officer and 121 cadets attended the combined Annual Training Camp at Dabhoi from the 21st October to the 3rd November, 1963. Cadets of the Unit also participated in the Parades held on the Independence Day, Republic Day and the N.C.C. Day.

'B', 'C', 'G Part I' and 'G Part II' Examinations were held in January, 1964 in which 24, 7, 4 and 1 cadets appeared respectively. The result was not declared during the period under report.

The prize giving ceremony was held on the 28th March, 1964. When Lt. Col. P. N. Hoon, Commander, N.C.C. Baroda gave away prizes to the 'Best Cadet', 'Best Shot' etc.

(5) 9th Gujarat Girls Troop N.C.C. :

The Unit is accommodated in the building of the 2nd Gujarat Girls Troop N.C.C.

The present strength of the Unit is 3 N.C.C. Lady Officers and 137 Girl Cadets against the authorised strength of 3 Officers and 150 cadets. This Unit has come in touch with the Air Force Unit. As such, gliding training has been introduced to few selected cadets of the troop. The cadets are taught subjects like Radio Telephony, Weapon Training, Squad Drill, Signal Training, Sanitation, Hygiene and First Aid etc. The Air Wing Cadets are taught special subjects like Airmanship, Meteorology, Aero-modelling etc.

Annual Training Camp was held at Pihij (via Nadiad) from the 22nd October to the 2nd November, 1963 in which 2 N.C.C. Officers and 86 cadets participated. Four prizes were won by the cadets. One Officer and 8 cadets attended the Annual Training Camp at Indore from 1st November to the 12th November, 1963 when the cadets won three prizes. The Officers and the cadets also took part in ceremonial parades held on the Independence Day, N.C.C. Day and the Republic Day. One cadet from the Unit participated in the Republic Day Delhi contingent.

Certificate G Part I Examination was held on the 1st and 2nd February, 1964 and G Part II Examination was held on the 12th February, 1964. The result is shown below:

Examination	Number appeared	Number passed	Percentage
1. G. Part I	9	6	66%
2. G. Part II	4	4	100%

(6) 17th Gujarat Air Squadron N.C.C. :

This Unit started functioning from the 1st August, 1959. The present strength of the Unit is 2 N.C.C. Officers and 121 Cadets against the authorised strength of 2 Officers and 128 Cadets. From the year 1963-64, five Junior Division Air Troops of different schools of Gujarat State are raised in this Unit the actual strength of which is 1 Officer and 100 cadets against the authorised strength

of 2 Officers and 100 cadets. The training commenced in June, 1963 and terminated in February, 1964.

Two Girl Troops—2nd and the 9th Girls Troops which were under the command of this Unit are now transferred to the 20th Gujarat Signal Company. The Cadets were imparted training in the subjects like Navigation, Meteorology, Aero-engines, Armament, Hygiene and Sanitation etc. All the 33 cadets of the second year were given Air-experience by more than one glider launch to each. A total number of 83 glider launches were done during the year. All the 14 cadets of the 3rd year and one Officer started their flying. One cadet qualified for wing by doing his first solo. 3 cadets of the 4th year continued their flying. In all, a total of 211.24 hours of flying have been completed by these 17 cadets and 1 Officer during the year under report. One cadet of the Unit is selected for O.T.U. course.

Model Air Craft Flying display and static display were conducted on the Independence Day, N.C.C./T.A. Day, during Senior Division Camp at Rajkot and Junior Division Camp at the Rosary High School, Baroda. The cadets also participated in the Ceremonial Parade and Flag March on the Independence Day, N.C.C./T.A. Day, University Week Celebrations and the Republic Day.

The following examinations were held in February, 1964:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	28	18	64%
2. 'C' Certificate	13	9	69%
3. Part I Certificate	47	47	100%
4. Part II Certificate	45	42	93%

#### (7) 54th Gujarat Group N.C.C. Rifles :

The group has under its command 9 companies at Baroda, 3 at Godhra, 2 at Dabhoi and 1 each at Rajpipla and Sankheda. The strength of the Unit is 17 Officers and 2755 cadets. From the year 1963-64, 5 Junior Division Troops are under this Unit. The training started on the 1st July, 1963 and terminated on the 4th February, 1964.

No camp was held during the year. Exercises of 24 hours duration were held on five days for giving training to the cadets.

'B', 'C' and 'G Part I' certificate examinations were held in February, 1964. The result is awaited.

#### (8) 20th Gujarat Signal Company N.C.C. :

The authorised and the actual strength of the Unit is 2 N.C.C. Officers and 200 cadets. The training started on the 29th June, 1963 and ended on the 5th February, 1964.

A cadre was run in the first week of September, 1963 for testing the ability of cadets for different appointments such as U/O, CSM, SGT, CPL, and CQMH

& L/CPL. The company celebrated the NCC day on the 20th October, 1963 alongwith other Units in station.

Annual Training Camp was held at Talod in combination with two other companies of the Gujarat State. Two cadets of the company attended the Advance Leadership course in May, 1963 outside the Gujarat State.

'B' and 'C' certificate examinations were held on the 8th and 10th February, 1964 in which 18 and 7 cadets appeared respectively.

#### (9) 3rd Gujarat Technical Air Squadron N.C.C. :

The Unit was raised in July, 1960. It is accommodated at present in two open halls with two small temporary partitioned rooms of the Kalabhavan Building. The present strength of the Unit is 2 N.C.C. Officers and 134 cadets. The training of the 1st, 2nd and the 3rd year course has been completed.

Annual Training Camp of this Unit was held at Rajkot from the 22nd October, 1963 to the 4th November, 1963. It was attended by one N.C.C. Officer and 87 cadets. Cadets also took part in N.C.C. week celebrations as well as Republic Day Parade held at the M. S. University Pavilion Ground.

'B' and 'C' certificate examinations were held in February, 1964. The result is as under:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	11	10	99%
2. 'C' Certificate	2	2	100%

#### (10) 61st Gujarat N.C.C. Rifles Battalion :

This Unit has been newly raised from the 21st June, 1963. The Battalion has under its command 12 companies with an authorised strength of 13 N.C.C. Officers and 2400 cadets. At present there are 12 Officers and 859 cadets. Two Junior Division Troops of High Schools at Dohad having a strength of 2 Junior Division Officers and 100 cadets are also under this Unit.

The training of the Battalion started on the 5th July, 1963 and completed on the 7th February, 1964. Owing to the National Emergency, the Government of India has suspended the Annual Training and Social Service Camp in respect of N.C.C. Rifles and introduced exercises each of 24 hours duration. The Unit conducted six exercises of the type in the year.

'B' and 'C' certificate examinations were held on the 9th and the 19th February, 1964 respectively. 29 cadets appeared for 'B' certificate examination and 3 cadets for 'C' certificate examination.

#### 5. The Shakespeare Society

Shakespeare's quatercentenary is being celebrated all over the world this year in recognition of the world's greatest dramatic genius. The Shakespeare Society contributed its share by staging *A Mid-summer Night's Dream* ( which,

in many ways, is characteristic of Shakespeare's art) in January, 1964. The Society also presented Tennessee Williams's *The Glass Menagerie* following past years' practice of blancing Shakespeare with a modern play. Both these performances were extremely well-received. In fact, we responded to earnest demands by taking the Shakespeare troupe to Ahmedabad and putting up both the plays at the St. Xavier's College there. This was the first time that the Shakespeare Society ventured out of its home town and we have reason to feel gratified by the reception accorded to it even outside Baroda.

Under the auspices of the Sahitya Academy and the Government of Gujarat a Shakespeare play contest is being organized this year and the Society hopes to enter the lists in September.

This was the Society's twelfth annual performance. Since its inception in 1951 under the patronage of the Vice-Chancellor the Society has regularly put up on the average two plays a year. Its repertoire, as would be expected, comprises chiefly the plays of Shakespeare; but this major interest is balanced by a fair number of modern plays like those of Shaw, Tennessee Williams and Eugene O'Neill. In this manner the Society aims at bringing to life the great classics of English drama by means of the vivid art of the stage. In the process it hopes to impart both delight and wholesome training to a large number of young members of the University who offer their share in the Society's work.

#### 6. Students' Common Room

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

Cafeterias are attached to all the three Common Rooms. Facilities have been provided for indoor games such as Carrom, Draughts, Chess, Table-Tennis, etc. and reading materials like daily newspapers, periodicals and a small collection of books. Committees consisting of the members of the teaching staff look after the upkeep and arrangements of the rooms. The rooms are also used for the meetings of Students' Associations, social functions, indoor games and tournaments.

#### 7. Hobby Workshop

The M. S. University Hobby Workshop came into existence from the grants of Rs. 25,000 for building of the Hobby Workshop and Rs. 24,800 for equipment, etc. from the University Grants Commission. The Hobby Workshop building is situated on the south-east corner of the University cricket field near the General Education Centre. It has a big hall and four small rooms for the hobbies. It provides facilities for hobbies viz. (1) Carpentry, (2) Assembling electronic

and electric appliances, (3) Music, (4) Clay-modelling, and (5) Photography. The Hobby Workshop has been functioning since 18th January, 1961 and canalising the extra time of the students for some creative work. The staff consists of one Officer-in-Charge of Hobby Workshop, One Foreman, six part-time Instructors, one part-time clerk and one part-time peon.

Students from several faculties and institutions are availing of the facilities with interest and zeal. The total number of students enrolled for different hobbies during the year 1963-64 is 166, as per details given below:

<i>Hobby</i>	<i>Number of students</i>
1. Carpentry	13
2. Assembling electronic and Electric Appliances	48
3. Music	61
4. Clay-modelling	11
5. Photogrphy	33
Total	166

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