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M. S. University of Baroda

Sixteenth

Annual Report

1964-65

**The Maharaja Sayajirao University
of Baroda**

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SIXTEENTH ANNUAL REPORT

1964-65



BARODA

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THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

SIXTEENTH ANNUAL REPORT, 1964-65

(1st April, 1964 to 31st March, 1965)

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His Highness the Maharaja Sir Sayajirao Gaekwad of Baroda

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA



SIXTEENTH ANNUAL REPORT, 1964-65

INTRODUCTION

The idea of establishing a University at Baroda started engaging the attention of the former Government of Baroda State in the year 1909. Some schemes for 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 revived the idea of the University and appointed a Committee to consider the question of the early establishment of the University. The Committee submitted its report to the Government of Baroda towards the end of the year 1948 and recommended the establishment of a primarily teaching and residential University with power to affiliate mofussil colleges. It favoured the tutorial system of instruction. All the existing institution of higher education including the Central Library, the Oriental Institute and the Kalabhavan were to be taken over by the University.

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

The Government of Baroda in their Order No. (R) 169-39 dated 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 jurisdiction of the University was restricted 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 the six Faculties of Arts, Science, Education and Psychology, Medicine, Commerce, Technology and Engineering. The First Year and the Intermediate classes in Arts and Commerce were organised into a separate institution called the Intermediate College. Three new Faculties of Fine Arts, Home Science and Social Work were also started from June, 1950. The management of the Baroda Sanskrit Mahavidyalaya and the Gujarati Section of the Old Baroda High School were taken over by the University from the then Government of Bombay in 1951. To start with the University followed the Bombay University courses and the standards of admissions, examinations, etc. The first examinations of the University were held in March-April, 1951.

Since then the Faculties have made considerable progress. The 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 necessary grants for library, equipment and contingent expenditure.

Polytechnic was started in the year 1957-58 to conduct diploma courses in Civil, Electrical and Mechanical Engineering. The Intermediate College was discontinued from the year 1958-59 and instead, the Preparatory Unit conducting Preparatory Courses in Arts, Science and Commerce was started. The Faculty of Law was started in the year 1961-62.

The developments during the preceding years are described in the fifteen Annual Reports published so far. This Sixteenth Annual Report covers the period from the 1st April, 1964 to the 31st March, 1965 and is submitted to the Senate in accordance with Section 24(2) of the Maharaja Sayajirao University of Baroda Act as amended up-to-date.

CHAPTER I—GENERAL

1. Institutions in the University

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

- (1) Faculty of Arts
- (2) Faculty of Science
- (3) Faculty of Education and Psychology
- (4) Faculty of Commerce
- (5) Faculty of Medicine
- (6) Faculty of Technology and Engineering
- (7) Faculty of Fine Arts
- (8) Faculty of Home Science
- (9) Faculty of Social Work
- (10) Faculty of Law
- (11) Oriental Institute
- (12) College of Indian Music, Dance and Dramatics
- (13) Baroda Sanskrit Mahavidyalaya
- (14) Preparatory Unit
- (15) Polytechnic
- (16) Museum and Picture Gallery

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 1964-65:

Statement showing the number of students at the commencement of academic year 1964-65

Institutions	* Post-graduate Courses				Degree Courses		Diploma Courses		Total		Grand Total 1964-65		Grand Total 1963-64		Grand Total 1962-63	
	Men		Women		Men		Women		Men		Men		Women		Men	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1. Faculty of Arts	..	146	80	581	530	8	7	735	617	1352	1189	1177	..	..	..	..
2. Faculty of Science	..	273	46	496	152	..	..	769	198	967	879	820	..	..	..	..
3. Faculty of Education and Psychology	..	45	20	81	104	21	14	147	138	285	308	264	..	..	..	..
4. Faculty of Commerce	..	77	5	1057	50	..	†3	1134	58	1192	1134	1108	..	..	..	..
5. Faculty of Medicine	..	153	34	367	94	..	..	520	128	648	481	417	..	..	..	..
6. Faculty of Technology and Engineering	..	69†	..	1733	28	235	..	2057	28	2085	2094	1875	..	..	..	..
7. Faculty of Fine Arts	..	16	3	46	14	70§	9	132	26	158¶	183	176	..	..	..	..
8. Faculty of Home Science	..	1	70	..	505	..	..	1	575	576	560	504	..	..	..	..
9. Faculty of Social Work	..	57	19	..	..	..	..	57	19	76	80	73	..	..	..	..
10. Faculty of Law	..	206	6	296	22	..	..	502	28	530	487	458	..	..	..	..
11. Preparatory Unit	1346	468	..	..	1346	468	1814	1774	1602	..	..	..	..
12. College of Indian Music, Dance and Dramatics	..	6	2	14	15	..	..	20	17	37	41	47	..	..	..	..
13. Baroda Sanskrit Mahavidyalaya	..	13	..	17	..	19	3	49	3	52	43	53	..	..	..	..
14. Polytechnic	1176	6	1176	6	1182	1062	867	..	..	..	..
Total	1062	285	6034	1982	1549	42	8645	2309	10954	10315	9441	..	..	..	..	..

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

† Excludes 8 men and 2 women students of S.Y.B.Com. joining the undergraduate Diploma in Co-operation.

‡ Includes 17 Government of India Technical Teachers Trainees.

§ Includes 5 Post-Diploma men students also.

¶ Does not include 17 men and 4 women students who are non-collegiate and Government Scholars and Foreign Scholars.

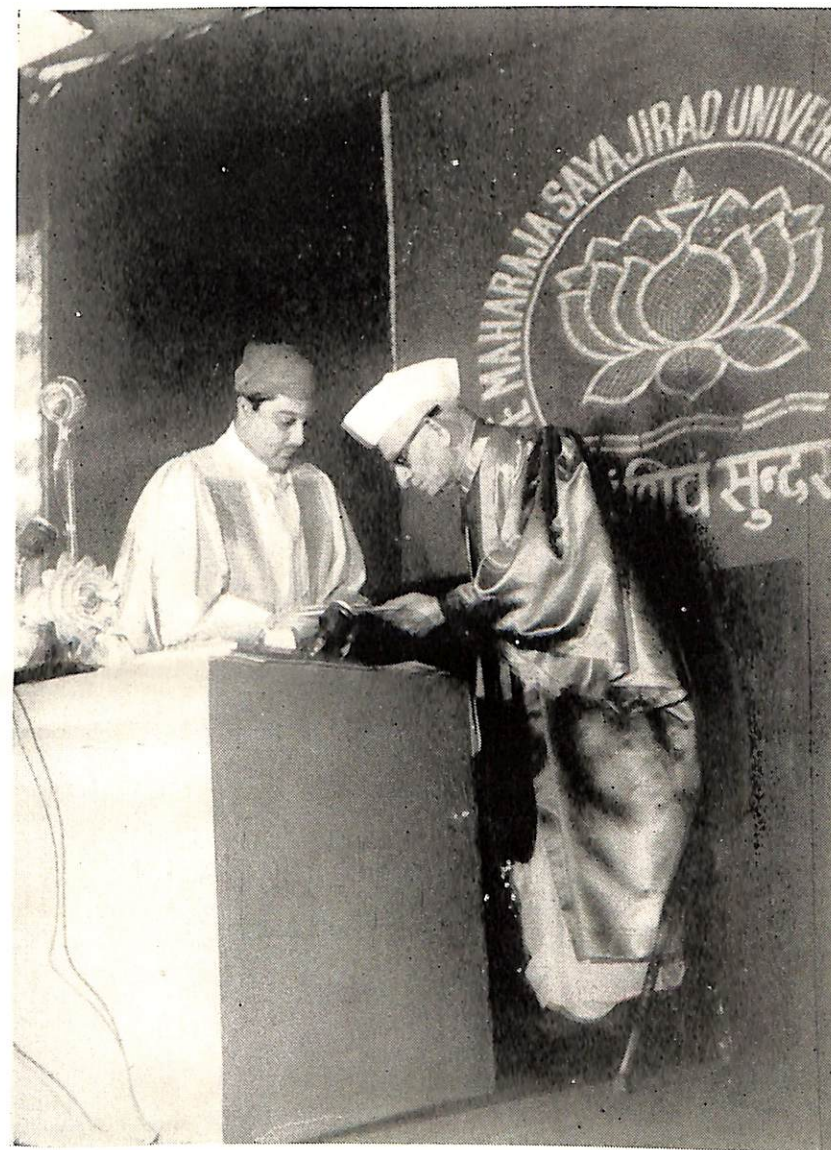
Statement showing non-University Students at the commencement
of the year 1964-65

Institutions	Men	Women	Total 1964-65	Total 1963-64	Total 1962-63
1	2	3	4	5	6
(A) Diploma Courses:					
1. College of Indian Music, Dance and Dramatics	161	188	349	463	375
2. Extended Diploma Courses in Civil, Mechanical and Electrical Engineering	128	—	128	—	—
3. Faculty of Arts	12	4	16	—	—
(B) Certificate Courses:					
1. Faculty of Arts	135	16	151	255	172
2. Faculty of Technology and Engineering	—	—	—	—	7
3. Faculty of Fine Arts	7	—	7	5	4
4. Baroda Sanskrit Mahavidyalaya	29	10	39	36	37
(C) S.S.C. Course:					
1. University Experimental School	238	195	433	436	440
(D) Nursery Courses:					
1. Chetan Balwadi	32	28	60	66	74
2. Kindergarten	14	11	25	19	11
Total	750	452	1208	1280	1120

3. Special Features of the year

(1) Convocations:

- (i) A Special Convocation was held on the 27th November, 1964 for conferring the Honorary Degrees of Doctor of Letters and Doctor of Laws on Dr. S. Radhakrishnan, the President of the Republic of India and Dr. K. M. Munshi respectively. Dr. S. Radhakrishnan delivered the Special Convocation Address. The Chancellor presided.



The Chancellor awarding the Diploma (Doctor of Laws, Honoris Causa) to Shri Kanaiyalal Maneklal Munshi.

(ii) The Fourteenth Annual Convocation was held on the 29th November, 1964. Dr. K. M. Munshi delivered the Convocation Address. The Chancellor presided.

(iii) The Fifth Supplementary Convocation was held on the 28th March, 1965. The Vice-Chancellor presided.

The following degrees and diplomas were conferred during the convocations:

Sr. No.	Degree/Diploma	Annual Convocation	Supplementary Convocation	Total
1.	Ph.D. (Arts)	4	2	6
2.	Ph.D. (Science)	3	3	6
3.	Ph.D. (Edu. & Psy.)	2	1	3
4.	Ph.D. (Commerce)	1	—	1
5.	Doctor of Medicine	9	9	18
6.	Master of Surgery	1	3	4
7.	Master of Arts	75	1	76
8.	Acharya	1	—	1
9.	Bachelor of Arts	253	42	295
10.	Shastri	5	—	5
11.	Diploma in Library Science	21	—	21
12.	Master of Science	114	1	115
13.	Bachelor of Science	92	28	120
14.	M.Ed. (By papers)	12	—	12
15.	Bachelor of Education	108	—	108
16.	Diploma in Guidance and Counselling	4	—	4
17.	Diploma in Educational Administration	4	—	4
18.	Master of Commerce	15	—	15
19.	Bachelor of Commerce	223	88	311
20.	Diploma in Banking	7	—	7
21.	Diploma in Cooperation	—	1	1
22.	M.B.B.S.	33	41	74
23.	Diploma in Ophthalmology	2	—	2
24.	Diploma in Anaesthesiology	2	2	4
25.	Diploma in Laryngology and Otology	6	1	7
26.	Diploma in Medical Radiology and Electrology	—	2	2
27.	Diploma in Paediatrics	1	1	2
28.	Diploma in Venereology and Dermatology	—	1	1
29.	Diploma in Tuberculous Diseases	1	1	2
30.	Diploma in Clinical Pathology	2	2	4

Sr. No.	Degree/Diploma	Annual Convocation	Supplementary Convocation	Total
31.	Diploma in Gynaecology and Obstetrics	4	5	9
32.	Master of Engineering	3	6	9
33.	Bachelor of Engineering	404	42	446
34.	B.Text. (Eng.)	9	2	11
35.	B.Text (Tech.)	13	1	14
36.	B.Arch.	13	17	30
37.	LL.B.	83	31	114
38.	Diploma in Taxation Laws	9	—	9
39.	Master of Arts (Fine)	6	—	6
40.	Master of Music	2	—	2
41.	Bachelor of Arts (Fine)	19	—	19
42.	Bachelor of Music	8	—	8
43.	Diploma in Museology	4	—	4
44.	Master of Science (Home)	11	2	13
45.	Bachelor of Science (Home)	63	3	66
46.	Diploma in Nursery School Education	4	—	4
47.	M.S.W.	24	4	28
Total		1680	343	2023

(2) New Courses:

The following new courses were started during the year:

- (i) Ph.D. in Microbiology/Law
- (ii) M.Sc. in Microbiology
- (iii) Master of Laws
- (iv) Master of Engineering in Structural Engineering/Production Engineering/Textile Engineering
- (v) Post-graduate Diploma in Labour Laws and Practice
- (vi) Five Year Integrated Degree Course in Civil/Mechanical/Electrical Engineering
- (vii) Diploma in Russian Language
- (viii) Certificate on French Language

(3) Fourth Five Year Plan:

The University prepared proposals for the development of higher education and research during the Fourth Five Year Plan and submitted them to the University Grants Commission and the Government of Gujarat in February, 1965. The following is the summary of requirements for the proposals submitted for consideration under the Fourth Five Year Plan.

	Non-recurring	Recurring	Total
1. Humanities and Social Sciences including Advanced Centre for Research in Taxation	56,90,182	55,56,175	1,12,46,357
2. Sciences and Home Science including Centre of Advanced Studies in Zoology	76,74,108	37,05,750	1,13,79,858
3. Technology and Engineering	3,07,28,640	75,54,504	3,82,83,144
4. General Schemes	1,16,46,200	24,73,000	1,41,19,200
Total	5,57,39,130	1,92,89,429	7,50,28,559

(4) Seminars, Summer Schools etc.

The following seminars and summer schools were organised during the year under the joint auspices of the University Grants Commission and the M. S. University of Baroda.

- (i) Summer School in Prestressed Concrete
- (ii) Summer School in Internal Combustion
- (iii) Summer School in Advanced Statistics
- (iv) Summer Institute for High/Higher Secondary School Teachers in Mathematics at Abu
- (v) Winter School in Graphic Arts
- (vi) Winter Course in Statistical Methods for Research Workers in Humanities, Social Sciences and Sciences
- (vii) Seminar on Community Development and Change in India at Abu
- (viii) Seminar on Undergraduate and Postgraduate Curriculum for Home Science at Bombay
- (ix) Seminar on Inter-disciplinary Research in Child Development and Family Relations
- (x) 47th All India Economic and 18th All India Labour Economics Conferences

(5) Visitors:

The following distinguished persons visited the University and its Institutions:

- (i) Major General Virendra Singhji,
Director General of NCC
- (ii) Dr. V. K. R. V. Rao,
Member, Planning Commission, Government of India

- (iii) Professor A. Haequaert,
Honorary Secretary General of the International Association of
University Professors and Lecturers
- (iv) Shri Bhakta Darshan,
Deputy Minister of Education, Government of India
- (v) Shri G. K. Chandiramani,
Joint Secretary, Ministry of Education, Government of India
- (vi) Professor Cordington

4. Teaching Staff

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

FACULTY OF ARTS

- Reader : Dr. V. N. Kothari (Economics) and Shri J. D. Desai (English)
- Lecturers : Kumari B. S. Desai (Sociology), Shrimati B. V. Modi (Linguistics), Kumari J. J. Modi, Kumari U. S. Sabnis and Shri M. M. Dadi (Economics) and Shri D. H. Mohite (Political Science)

FACULTY OF SCIENCE

- Lecturers : Kumari Z. A. Sayed and Kumari V. S. Rajan (Geography), Sarvashri L. J. Parekh, Abraham Antony and M. D. Kumar (Biochemistry), S. A. Itwala and V. M. Kaka (Mathematics), V. R. Fadnis (Physics), N. V. Valyanathan (Zoology)

FACULTY OF EDUCATION AND PSYCHOLOGY

- Professor : Dr. A. S. Patel (Educational Psychology in CASE)
- Readers : Dr. B. P. Lulla (Curriculum) and Dr. H. J. X. Fernandes (Counselling Centre)
- Lecturers : Shri K. C. Bhatt (Co-ordinator in Extension Department) and Kumari N. D. Surti (Education)

FACULTY OF COMMERCE

- Readers : Dr. H. P. Chokshi and Shri S. Srikantiah (Economics)
- Lecturers : Sarvashri I. P. Vyas (Commerce including Business Administration), A. G. Sandhe (Commerce), C. D. Amin (Accounts) and G. S. Gupta (Economics)

FACULTY OF TECHNOLOGY AND ENGINEERING AND POLYTECHNIC

- Professor : Shri M. B. Achwal (Architecture)

- Readers : Sarvashri J. G. Advani, J. R. Derasari (Electrical-Engineering), P. V. Parikh (Applied Mechanics), and B. M. Patel (Mechanical Engineering)
- Lecturers : Sarvashri M. M. Pathan, K. P. Dabke, A. M. Shah, S. M. Moghe, M. G. Nayak (Electrical Engineering), D. M. Dhingra (Mechanical Engineering), H. V. Bhavnani, S. C. Patel, S. P. Shah (Civil Engineering), N. R. Parikh, M. N. Kantharia (Applied Mechanics), K. R. Kirtane (Textile Chemistry), Dr. J. M. Lohar (Chemistry), C. A. Shah (Mathematics), D. T. Brahmabhatt, D. M. Shringarpure, O. K. Shah (Geology) D. S. Pathak, R. G. Nanbir (Economics)

FACULTY OF FINE ARTS

- Reader : Shri B. K. Karia (Graphic Arts)

FACULTY OF HOME SCIENCE

- Reader : Kumari Prem Pasricha (Child Development), Smt. R. Rajalakshmi (Biometrics and Psychometrics)
- Lecturers : Kumari Mary Wellington, Kumari Amarjit Narula (Child Development), Shrimati Jayaprabha Patel and Kumari Hemalata Patel (Foods and Nutrition), Kumari Minaxi Dighe (Clothing and Textiles), Shrimati S. R. Naik (Biology), Shrimati Vimal Prapanna (Physics), Shri B. V. Mate (Chemistry) and Shri M. D. Patel (Mathematics)

FACULTY OF SOCIAL WORK

- Professor : Shri G. G. Dadlani (Social Work)

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

FACULTY OF ARTS

- Reader : Dr. K. N. Dubey (Hindi)
- Lecturers : Kumari M. J. Patel and Shri Rajendrakumar (Economics), Sarvashri P. J. Shah (Political Science), D. V. Shastri (Sanskrit) and A. A. Desai (Geology in Archaeology Department)

FACULTY OF SCIENCE

- Lecturers : Sarvashri B. S. Yadav (Mathematics), D. V. Naik, B. M. Hegdekar and K. S. S. Nair (Zoology)

FACULTY OF EDUCATION AND PSYCHOLOGY

- Professor : Dr. S. N. Mukerji (Educational Administration)
 Lecturer : Shri D. B. Desai (Education)

FACULTY OF COMMERCE

- Reader : Shrimati D. P. Pandit (Economics)
 Lecturers : Kumari M. M. Shah (Economics), Kumari N. N. Desai (Banking and Shri J. R. Patel (Commerce)

FACULTY OF TECHNOLOGY AND ENGINEERING AND POLYTECHNIC

- Lecturers : Sarvashri C. P. Desai (Electrical Engineering), C. B. Patel (Textile Technology), P. R. Pancholi (Economics), Dr. H. H. Majumdar (Geology)

FACULTY OF HOME SCIENCE

- Reader : Shrimati Renuka Mukerji (Child Development)
 Lecturers : Kumari Nalini Badlani, Dr. (Kumari) C. C. Chacko (Child Development) and Shrimati Barbora Dheer (Home Management)

FACULTY OF SOCIAL WORK

- Lecturers : Kumari Shakuntala P. Dube and Shri N. S. Mudaliar (Mental Hygiene)

COLLEGE OF INDIAN MUSIC, DANCE AND DRAMATICS

- Reader : Shri M. P. Khokar (Dancing)

(3) A Statement showing the number of teaching staff of various faculties and institutions as on the 31st March, 1965 is given below:

Faculty/Institution	Professor	Reader	Lecturer	Tutor, Demonstrator, Instructor	Honorary Part-time and others	Total
Arts						
Science	7	18	53	6		89
Education and Psychology	9	19	54	54	5	136
Commerce	3	6	15	4		28
Technology and Engineering	—	8	13	—	6	27
Fine Arts	11	25	60	61	2	159
	3	5	17	7	2	34

Faculty/Institution	Professor	Reader	Lecturer	Tutor, Demonstrator, Instructor	Honorary Part-time and others	Total
Home Science	2	5	24	19	1	51
Social Work	2	2	7	1	1	13
Law	1	1	2	—	10	14
Oriental Institute	—	2	4	—	—	6
College of Indian Music, Dance and Dramatics	1	3	11	8	2	25
Baroda Sanskrit Mahavidyalaya	—	—	1	12	1	14
Polytechnic	3	2	26	68	—	99
Total	42	96	287	240	30	695

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 in previous years for further studies abroad returned to the University during the year:

S. No.	Name and Designation	Qualifications or experience acquired
1.	Dr. V. N. Kothari, Reader in Economics	Worked on Advanced Post-doctorate research in Economics, Chicago; attended graduate classes and took part in research seminar
2.	Shri A. P. Rana, Reader in Political Science	Completed first doctorate examination for the D.Sc. (Political Science) of the Geneva University.
3.	Dr. A. C. Patel, Lecturer in Geology	Ph.D. in Environmental Archaeology, London University.
4.	Shri C. K. Seshadri, Lecturer in English	Diploma in the Teaching of English as Foreign Language, Leeds.
5.	Dr. H. J. X. Fernandes, Reader in Education and Psychology	Advanced studies in Psychometrics; Ph D in Psychology, Michigan
6.	Dr. S. K. Mehta, Lecturer in Mechanical Engineering	Ph.D., Moscow.
7.	Shri K. T. Desai, Lecturer in Textile Engineering	Completed higher studies and research training in Belgium.

<i>S.No.</i>	<i>Name and Designation</i>	<i>Qualifications or experience acquired</i>
8.	Shri C. B. Patel, Lecturer in Textile Technology	Graduate's Certificate in Technical Education, Leeds.
9.	Shrimati Kusum Pandya, Lecturer in Child Development	Completed special study Programme.
10.	Shrimati Anjali Mehta, Lecturer in Child Development	M.S. (Iowa) in Child-Development.
11.	Shrimati Jayaprabha Patel, Lecturer in Foods and Nutrition	M.S. (Iowa) in Foods and Nutrition
12.	Kumari Minaxi Dighe, Lecturer in Clothing and Textiles	M.S. (Iowa) in Clothing and Textiles
13.	Shrimati Barbera Dheer, Lecturer in Home Management	M.S. (Iowa) in Home Management.
14.	Shri S. R. Ramdev, Lecturer in Social Work	Masters degree in Social Work, Columbia.

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

<i>S.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
1.	Dr. S. C. Malik, Reader in Anthropology	Higher Studies in Anthropology at Chicago University, under Smith Mundt. Fellowship Programme
2.	Dr. M. G. Krishnamurthy, Lecturer in English	Higher Studies in American Literature at the Wisconsin University.
3.	Shri J. D. Birjepatil, Lecturer in English	For studies in Dramatics and doing research in English literature at the Bristol University.
4.	Shri P. G. Patel, Lecturer in English	Higher Studies in English Language at the University of Nevada, Netherlands Fellowship Programme.
5.	Professor A. H. Somjee, Professor of Political Science	Teaching and Research work at University of Durham.

<i>S.No.</i>	<i>Name and Designation</i>	<i>Purpose</i>
6.	Shri K. S. Desai, Reader in Political Science.	Teaching and Research work under the Fulbright Whitney Scholarship Scheme, U.S.A.
7.	Kumari V. S. Rajan, Lecturer in Geography	For higher studies in Geography in France—French Government Scholarship Programme.
8.	Shri S. K. Shah, Lecturer in Physics	For doing post doctoral research work at Case Institute of Technology, Cleveland, Ohio.
9.	Shri B. K. Shah, Lecturer in Statistics	For further studies and research in Statistics at the University of Yale,—Yale University Fellowship Programme.
10.	Shrimati M. M. Amin, Lecturer in Education	For acquiring knowledge of Audio Visual Education in U.S.A.
11.	Shri T. P. Lele, Reader in Psychology	Visiting Professor at the University of Michigan—Michigan Project.
12.	Shri P. V. Parikh, Reader in Civil Engineering	For further studies for M.Sc. and Ph.D. degrees in Soil Mechanics—Commonwealth Scholarship and Fellowship Programme.
13.	Shri N. J. Dave, Reader in Civil Engineering	For further studies for the Ph.D. Degree at the Leeds University—UNESCO Fellowship Programme.
14.	Shri V. C. Shah, Lecturer in Civil Engineering	For post-graduate training at the University of Wisconsin—USAID Programme.
15.	Shri B. N. Chaulkar, Lecturer in Textile Chemistry	For further studies for Ph.D. degree in Clothing and Textiles in Wisconsin—Ford Foundation Project in Home Science Faculty.
16.	Shri R. C. Desai, Lecturer in Electrical Engineering	For Research Training at the University of Purdue, Lafayette Indiana,—USAID Programme.
17.	Professor (Kumari) J. A. Singh, Professor of Clothing and Textiles	Ph.D. in Clothing and Textiles U.S.A.
18.	Kumari Padma S. Chari, Reader in Education and Extension	Ph.D. in Home Economics Education and Extension at the Cornell University—Ford Foundation Scholarship Programme.

S. No.	Name and Designation	Purpose
19.	Shri B. C. Barbhaiyya, Lecturer in Arts and Crafts	For special study Programme U.S.A.—Ford Foundation Scholarship Programme.
20.	Shri U. R. Gore, Lecturer in Foods and Nutrition	For special study Programme in U.S.A. Ford Foundation Scholarship Programme.
21.	Shri S. A. Yaleja, Lecturer in Social Work	Ph.D. at the University of Pennsylvania.

6. University Examination Results

19 candidates were declared qualified for the award of the Ph.D. degree of this University in the Year 1964-65, as detailed below:

Name of the Candidate	Subject	Title of the Thesis
1. Shri S. C. Malik	Archaeology	Studies in the Pre-history of Western India with special reference to Gujarat
2. Shri Y. A. Raikar	Archaeology	Yadavas of the Deccan and their times—A Cultural History
3. Shri S. N. Chaudhary	Archaeology	Buddhist Monuments of Devani Mori
4. Shri N. M. Rao	English	Symbolism in Modern English Poetry
5. Shri R. L. Umarwadia	English	A study of the Arts and Expressions of Courtsey in the Plays of Shakespeare
6. Shri M. G. Chaturvedi	Hindi	गुजरातकी हिन्दी काव्यपरम्परा तथा आचार्य कवि गोविंद गिल्लाभाई Kavya Parampara tatha Acharya Kavi Govind Gillabhai
7. Shri H. D. Gupta	Hindi	हिन्दी का स्तोत्र साहित्य
8. Shri A. M. Shah	Sociology	Social Structure and change in a Gujarat village
9. Smt. Neeru A. Desai	Sociology	Gujarati Society in Nineteenth Century (An Analysis of Social Change)
10. Shri R. P. Gurga	Botany	Studies on some plant viruses and virus diseases of Plants in Madhya Pradesh

Name of the Candidate	Subject	Title of the Thesis
11. Shri J. M. Trivedi	Chemistry	Studies in compounds containing the reactive Methylene group and Orgo—Arsenicals
12. Shri K. P. Mathai	Chemistry	Studies in Phenols and Biphenols
13. Shri A. P. Bala Subramanian	Physics	Optical studies on Metal crystals—Zinc and Antimony
14. Shri D. V. Naik	Zoology	Studies on certain Metabolic and Neuroendocrinological Aspect of Bird Migration
15. Shri K. S. S. Nair	Zoology	Studies on certain aspects of the Physiology of the Furniture-carpet beetle, Anthrenes Vorax water house (Dermestidae coleoptera)
16. Shri G. B. Shah	Education	Construction and standardisation of a non-verbal group test of intelligence with special reference to the Gujarat State (for the Children of age-group 7-13)
17. Kumari Sharda Devi Garudacharya	Education	Education of Graduate Teachers in the Traditional and Basic Methods—An Analysis of the Problem and suggestions for an Integrated Pattern to suit our Socialistic Pattern of Society
18. Shri V. B. Shah	Psychology	A study of the nature of concept formation and conceptual disorders among schizophrenic patients
19. Shri H. B. Desai	Commerce	The Indian Shipping Industry with special reference to its Postwar Developments

The following two statements show the results of (i) March-April-May-June, 1964 and (ii) October-November-December, 1964 examinations:

Results of the University Examinations March-April-June-July, 1964

Sr. No.	Examinations	No. Registered	No. Absent	Number Passed																Percentage of Passes
				Men								Women								
				Total	I Class	Dist.	I Class	II Class	Pass Class	Total	I Class	Dist.	I Class	II Class	Pass Class	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	Prep. Arts	753	12	386	355	741	—	7	65	142	214	—	6	113	139	258	472	63.70%		
2	First Year B.A.	450	8	228	214	442	—	4	49	91	144	—	9	94	75	178	322	72.85%		
3	*Second Year B.A.	349	6	197	146	343	—	—	—	138	138	—	—	—	110	110	248	72.30%		
4	B.A. (Final Year)	372	10	227	135	362	—	10	46	90	146	—	10	43	56	109	255	70.44%		
5	M.A.	112	13	71	28	99	—	7	25	20	52	—	5	8	10	23	75	75.75%		
6	Acharya	3	1	2	—	2	—	1	—	—	1	—	—	—	—	1	—	50%		
7	Shastri	7	—	6	1	7	—	1	3	—	4	—	—	1	—	1	5	83.33%		
8	Visharad	1	—	1	—	1	—	1	—	—	1	—	—	—	—	—	1	100%		
9	Dip. in Lib. Sc.	22	—	13	9	22	—	3	5	4	12	—	2	7	—	9	21	95.44%		
10	Dip. in German Lang. (UG)	5	—	5	—	5	—	3	2	—	5	—	—	—	—	5	—	100%		
11	Prep. Science	783	8	677	98	775	—	100	290	120	510	—	8	34	23	65	575	74.19%		
12	Pre-Medical	125	—	100	25	125	—	28	50	15	93	—	5	15	4	24	117	93.60%		
13	First Year B.Sc.	213	2	164	47	211	—	6	14	37	57	—	1	12	13	26	83	39.33%		
14	*Second Year B.Sc.	187	1	150	36	186	—	—	—	72	72	—	—	—	24	24	96	51.61%		
15	B.Sc. (Final Year)	159	—	132	27	159	4	13	26	27	70	3	7	10	3	23	93	58.42%		
16	M.Sc.	141	5	122	14	136	1	34	52	15	102	—	1	9	2	12	114	83.82%		
17	B.Ed.	114	—	68	46	114	—	2	26	35	63	1	3	23	18	45	108	94.70%		
18	*T.D.	38	—	17	21	38	—	—	—	17	17	—	—	—	21	21	38	100%		
19	*Dip. in Early Childhood Education (under-graduate)	6	—	—	6	6	—	—	—	—	—	—	—	—	6	6	6	100%		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	M.Ed.	18	5	10	3	13	—	—	4	5	9	—	—	2	1	3	12	92.30%
21	*Post-graduate Dip. in Edu. Admn.	5	1	4	—	4	—	—	—	4	4	—	—	—	—	4	—	100%
22	*Post-graduate Dip. in Guidance and Counselling	4	—	3	1	4	—	—	—	—	3	3	—	—	1	1	4	100%
23	Prep. Commerce	622	10	584	28	612	—	25	127	169	321	—	1	11	10	22	343	56.04%
24	First Year B.Com.	484	6	464	14	478	—	15	90	158	263	—	2	4	5	11	274	57.80%
25	*Second Year B.Com.	474	26	435	13	448	—	—	—	313	313	—	—	—	11	11	324	72.32%
26	B.Com. (Final Year)	403	14	382	7	389	1	9	62	127	199	—	—	4	2	6	205	52.69%
27	B.Com. (under O. Com. 27)	22	—	18	4	22	—	—	—	12	12	—	—	—	4	4	16	72.72%
28	B.Com. (under O. Com. 25)	12	1	11	—	11	—	—	—	7	7	—	—	—	—	—	7	63.63%
29	*Dip. in Co-operation (under-graduate)	6	—	6	—	6	—	—	—	5	5	—	—	—	—	5	—	83.33%
30	*P. G. Dip. in Banking	15	2	13	—	13	—	—	—	7	7	—	—	—	—	7	—	53.85%
31	M.Com.	20	1	17	2	19	—	1	3	9	13	—	1	1	—	2	15	78.95%
32	*I M.B., B.S.	26	—	22	4	26	—	—	—	12	12	—	—	—	4	4	16	61.53%
33	*II M.B., B.S.	77	—	61	16	77	—	—	—	44	44	—	—	—	13	13	57	74.02%
34	*III M.B., B.S.	39	—	36	3	39	—	—	—	24	24	—	—	—	3	3	27	69.23%
35	*M.D. (Br. I—Medicine)	8	—	8	—	8	—	—	—	3	3	—	—	—	—	3	—	37.50%
36	*M.D. (Br. II—Pathology)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	1	—	100%
37	*M.D. (Br. III—Pharmacology)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	2	—	100%
38	*M.D. (Br. V—O & G.)	6	1	2	3	5	—	—	—	—	—	—	—	—	3	3	—	60.00%
39	*M.S. (Br. I—Surgery)	7	1	6	—	6	—	—	—	—	—	—	—	—	—	—	1	16.66%
40	*M. S. (Br. III—Orthopaedics)	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	00.00%
41	*Diploma in Ophthalmology	3	1	2	—	2	—	—	—	2	2	—	—	—	—	2	—	100%
42	*Diploma in Anaesthesiology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	2	—	100%
43	*Diploma in Laryngology & Otology	8	—	8	—	8	—	—	—	6	6	—	—	—	—	6	—	75.00%
44	*Diploma in Pediatrics	2	—	2	—	2	—	—	—	1	1	—	—	—	—	1	—	50.00%
45	*Diploma in Tuberculous Diseases	2	—	2	—	2	—	—	—	1	1	—	—	—	—	1	—	50.00%
46	*Diploma in Clinical Pathology	2	—	1	1	2	—	—	—	1	1	—	—	—	1	1	2	100%
47	*Diploma in Gynaecology and Obstetrics	10	—	9	1	10	—	—	—	4	4	—	—	—	—	4	—	40.00%

* No class is awarded.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
48 *Diploma in Medical Radiology and Electrology (Part I)	3	—	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%
49 F.Y. Diploma (CME)	451	2 446	3 449	—	—	—	—	—	15	78	141	234	—	—	2	—	2 236	52.56%	
50 S.Y. Diploma (CME)	365	3 362	— 362	—	—	—	—	—	22	117	100	239	—	—	—	—	239	66.02%	
51 Dip. in Civil Engg.	73	5 68	— 68	—	—	—	—	—	12	33	15	60	—	—	—	—	60	88.23%	
52 Dip. in Mech. Engg.	88	2 86	— 86	—	—	—	—	—	21	26	23	70	—	—	—	—	70	81.39%	
53 *Dip. in Mech. Engg. (under O. TE. 155)	36	1 34	1 35	—	—	—	—	—	—	—	21	21	—	—	1	1	22	62.85%	
54 Dip. in Elect. Engg.	94	7 87	— 87	—	—	—	—	—	7	25	27	59	—	—	—	—	59	67.82%	
55 *Dip. in Elect. Engg. (under O. TE. 162)	42	1 40	1 41	—	—	—	—	—	—	—	33	33	—	—	1	1	34	82.93%	
56 Dip. in Text. Chem.	31	— 31	— 31	—	—	—	—	—	1	11	8	20	—	—	—	—	20	64.51%	
57 Dip. in Text. Chem. (under O. TE. 184)	47	1 46	— 46	—	—	—	—	—	5	19	19	43	—	—	—	—	43	93.43%	
58 Dip. in Text. Tech.	37	1 36	— 36	—	—	—	—	—	3	14	12	29	—	—	—	—	29	80.55%	
59 F.E. (CMETeTt)	429	2 427	— 427	—	—	—	—	—	18	36	140	73	267	—	—	—	267	62.52%	
60 S.E. (CMETeTt)	336	3 330	3 333	16	47	131	43	237	—	—	—	—	—	1	2	3	240	72.07%	
61 *S.E. (CME) (under O. TE. 7)	33	3 30	— 30	—	—	—	—	—	—	—	26	26	—	—	—	—	26	86.66%	
62 T.E. (CME)	351	5 344	2 346	16	34	132	67	249	—	—	—	—	—	1	1	2	251	72.54%	
63 T.Text. (Engg.)	16	— 16	— 16	—	—	—	—	—	2	14	—	16	—	—	—	—	16	100%	
64 T. Text. (Tech.)	9	— 9	— 9	—	—	—	—	—	1	6	—	7	—	—	—	—	7	77.77%	
65 B.E. (Civil)	154	2 151	1 152	7	22	85	15	129	—	—	—	—	—	—	—	—	129	84.86%	
66 B.E. (Mech.)	160	11 148	1 149	29	79	33	—	—	33	—	141	—	1	—	—	1	142	95.30%	
67 B.E. (Mech.) (under O. TE. 39)	27	— 27	— 27	3	19	4	1	27	—	—	—	—	—	—	—	—	27	100%	
68 B.E. (Elect.)	111	4 107	— 107	11	18	58	8	95	—	—	—	—	—	—	—	—	95	88.78%	
69 B.E. (Elect.) (under O. TE. 46)	11	1 10	— 10	1	5	3	—	9	—	—	—	—	—	—	—	—	9	90.00%	
70 B.Text. (Engg.)	12	1 11	— 11	—	—	—	—	—	3	4	2	9	—	—	—	—	9	81.81%	
71 B.Text. (Tech.)	14	— 14	— 14	—	—	—	—	—	9	—	4	13	—	—	—	—	13	92.85%	
72 *M.E. (Civil)—Part I	32	3 29	— 29	—	—	—	—	—	—	20	20	—	—	—	—	—	20	68.96%	
73 *M.E. (Civil)—Part II	4	— 4	— 4	—	—	—	—	—	—	—	4	4	—	—	—	—	4	100%	
74 *M.E. (Civil)—Parts II and III	1	— 1	— 1	—	—	—	—	—	—	—	1	1	—	—	—	—	@1	100%	
75 *M.E. (Mech.)—Part I	9	1 8	— 8	—	—	—	—	—	—	—	6	6	—	—	—	—	6	75.00%	

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
76 *M.E. (Mech.)—Part II	3	—	3	—	3	—	3	—	—	—	—	3	—	—	—	—	—	3	100%
77 M.E. (Mech.)—Part III	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
78 *M.E. (Elect.)—Part I	11	1 10	— 10	—	—	—	—	—	—	—	—	9	—	—	—	—	—	9	90.00%
79 *M.E. (Elect.)—Part II	3	1 2	— 2	—	—	—	—	—	—	—	—	2	—	—	—	—	—	2	100%
80 Third Year B.Arch.	78	— 73	5 78	—	—	—	—	—	1	19	15	35	—	—	2	2	4	39	50.00%
81 B.Arch.	50	— 45	5 50	2	—	—	—	—	—	23	4	29	—	2	3	—	5	34	68.00%
82 First LL.B.	321	71 226	24 250	—	—	—	—	—	4	60	21	85	—	2	10	2	14	99	39.60%
83 Second LL.B.	163	14 135	14 149	—	—	—	—	—	15	57	1	73	—	4	6	—	10	83	55.70%
84 *Diploma in Taxation Laws	17	3 12	2 14	—	—	—	—	—	—	—	8	8	—	—	—	1	1	9	64.28%
85 M.A. (Fine)—Painting	3	1	— 2	2	—	—	—	—	—	—	—	—	—	2	—	—	2	2	100%
86 M.A. (Fine)—Sculpture	2	—	2	—	—	—	—	—	1	1	—	—	—	—	—	—	2	2	100%
87 M.A. (Art Criticism)	2	—	1 2	—	—	—	—	—	—	—	—	—	1	—	—	—	1	2	100%
88 B.A. (Fine)—Painting	5	— 2	3 5	—	—	—	—	—	—	—	—	—	—	—	2	1	3	5	100%
89 B.A. (Fine)—Sculpture	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
90 B.A. (Fine)—Applied Arts	13	—	11	2	13	—	—	—	3	2	6	11	—	1	—	—	2	13	100%
91 Diploma in Fine Arts—Painting	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
92 Diploma in Fine Arts—Sculpture	2	—	2	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	100%
93 Diploma in Fine Arts—Applied Arts	9	—	9	—	—	—	—	—	—	—	3	4	—	—	—	—	—	7	77.77%
94 Diploma in Textile Design	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	100%
95 M.Mus.	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	100%
96 B.Mus.	9	—	4	5	9	1	—	—	1	2	—	—	—	—	—	—	—	2	100%
97 Post-diploma in Dance	3	—	1 2	3	—	—	—	—	—	—	—	—	—	—	3	1	4	8	88.88%
98 Diploma in Music	25	3 13	9 22	—	—	—	—	—	3	5	2	10	—	1	1	—	2	3	100%
99 Diploma in Dance	12	1 2	9 11	—	—	—	—	—	2	—	—	—	—	—	6	2	8	18	81.81%
100 Diploma in Dramatics	4	—	4	—	—	—	—	—	—	—	3	1	—	—	—	—	—	4	100%
101 *Diploma in Museology (P.G.)	4	—	2	—	2	4	—	—	—	—	2	2	—	—	—	2	2	4	100%

* No class is awarded.

@ Declared to have passed in Part III only but would be considered to have passed the Examination on passing the subjects of Part II.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
102 M.Sc. (Home)		12	1	—	11	11	—	—	—	—	—	—	—	—	—	—	—	19
103 B.Sc. (Home)		68	—	—	68	68	—	—	—	—	—	—	—	—	—	—	—	100%
104 Diploma in Nursery School Education (Post-graduate)		4	—	—	4	4	—	—	—	—	—	—	—	—	—	—	—	92.64%
105 M.S.W.		27	—	20	7	27	—	—	—	—	—	—	—	—	—	—	—	100%
106 *Ph.D. (Arts)		5	—	5	—	5	—	—	—	—	—	—	—	—	—	—	—	88.88%
107 *Ph.D. (Science)		9	—	8	1	9	—	—	—	—	—	—	—	—	—	—	—	100%
108 *Ph.D. (Edu. & Psy.)		3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	—	100%
109 *Ph.D. (Commerce)		1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	100%

† Pass with A Grade * No class awarded. § Pass with B Grade. ‡ Pass with C Grade.

Results of the University Examinations October/November, 1964

Sr. No.	Examinations	No. Registered	No. Absent	No. appeared		Number Passed											Grand Total	Percentage of Passes		
				Men		Women		Men												
				Total	I Class	II Class	Pass	Total	I Class	II Class	Dist.	I Class	II Class	Pass	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
1	First Year B.A.	109	11	67	31	98	—	—	5	35	40	—	—	1	19	20	60	61.22%		
2	*Second Year B.A.	92	3	53	36	89	—	—	—	29	29	—	—	—	14	14	43	48.31%		
3	B.A. (Final Year)	88	11	60	17	77	—	—	1	33	34	—	1	1	5	7	41	53.24%		
4	First Year B.Sc.	105	9	76	20	96	—	—	4	30	34	—	—	2	15	17	51	53.12%		
5	*Second Year B.Sc.	88	2	74	12	86	—	—	—	38	38	—	—	—	9	9	47	54.65%		
6	B.Sc. (Final Year)	51	7	40	4	44	—	1	7	15	23	—	—	1	3	4	27	61.36%		
7	First Year B.Com.	179	12	161	6	167	—	—	—	97	97	—	—	—	3	3	100	59.88%		
8	*Second Year B.Com.	129	25	102	2	104	—	—	—	52	52	—	—	—	2	2	54	51.92%		
9	B.Com. (Final Year)	171	10	160	1	161	—	3	6	72	81	—	—	—	—	—	81	50.31%		
10	B.Com. (under O. Com. 27)	8	—	8	—	8	—	—	—	7	7	—	—	—	—	—	7	87.50%		
11	B.Com. (under O. Com. 25)	6	—	6	—	6	—	—	—	5	5	—	—	—	—	—	5	83.33%		
12	*P. G. Dip. in Co-operation	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%		
13	*First M.B., B.S.	120	—	91	29	120	—	—	—	72	72	—	—	—	20	20	92	76.66%		
14	*Second M.B., B.S.	30	—	26	4	30	—	—	—	18	18	—	—	—	3	3	21	70.00%		
15	*Third M.B., B.S.	57	1	40	16	56	—	—	—	26	26	—	—	—	10	10	36	64.29%		
16	*M.D. (Medicine)	10	—	10	—	10	—	—	—	5	5	—	—	—	—	—	5	50.00%		
17	*M.D. (O. & G.)	6	—	5	1	6	—	—	—	3	3	—	—	—	1	1	4	66.66%		
18	*M.S. (Surgery)	9	1	8	—	8	—	—	—	2	2	—	—	—	—	—	2	25.00%		
19	*M.S. (Orthopaedics)	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	00.00%		
20	*M.S. (Oto-Rhino-Laryngology)	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%		

* No class is awarded

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
21	*Dip. in Anaesthesiology	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
22	*Dip. in Laryngology and Otology	4	1	3	—	3	—	—	—	1	1	—	—	—	—	—	1	33.33%
23	*Dip. in Medical Radiology and Electrolgy—Part II	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
24	*Dip. in Pediatrics	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
25	*Dip. in Venereology and Dermatology	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
26	*Dip. in Tuberculous Diseases	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
27	*Dip. in Clinical Pathology	3	—	3	—	3	—	—	—	2	2	—	—	—	—	—	2	66.66%
28	*Dip. in Gynaecology and Obstetrics	8	—	1	7	8	—	—	—	1	1	—	—	—	4	4	5	62.50%
29	F.Y. Dip. (CME)	193	11	181	1	182	—	—	—	77	77	—	—	—	1	1	78	42.85%
30	S. Y. Dip. (CME)	118	3	114	1	115	—	—	1	58	59	—	—	—	—	—	59	51.30%
31	Dip. in Civil Engg.	12	1	11	—	11	—	2	2	6	10	—	—	—	—	—	10	90.90%
32	Dip. in Mech. Engg.	16	—	16	—	16	—	2	1	9	12	—	—	—	—	—	12	75.00%
33	*Dip. in Mech. Engg. (under O. TE. 155)	7	—	7	—	7	—	—	—	7	7	—	—	—	—	—	7	100%
34	Dip. in Elect. Engg.	29	2	27	—	27	—	—	3	9	12	—	—	—	—	—	12	44.44%
35	*Dip. in Elect. Engg. (under O. TE. 162)	6	—	6	—	6	—	—	1	3	3	—	—	—	—	—	3	50.00%
36	Dip. in Textile Chemistry	11	2	9	—	9	—	—	—	3	5	—	—	—	—	—	5	55.55%
37	*Dip. in Textile Chemistry (under O. TE. 184)	4	—	4	—	4	—	—	1	2	3	—	—	—	—	—	3	75.00%
38	Dip. in Textile Technology	5	1	4	—	4	—	—	2	—	2	—	—	—	—	—	2	50.00%
39	*First Semester of S. Chem. Engg.	40	—	40	—	40	—	—	—	34	34	—	—	—	—	34	85.00%	
40	F.E. (CMETeTt)	155	2	153	—	153	—	—	6	96	102	—	—	—	—	—	102	66.66%
41	S.E. (CMETeTt)	103	6	97	—	97	—	—	2	51	53	—	—	—	—	—	53	54.61%
42	T.E. (CME)	98	8	90	—	90	—	—	—	47	47	—	—	—	—	—	47	52.22%
43	T.Text. (Tech.)	2	—	2	—	2	—	—	—	2	2	—	—	—	—	—	2	100%
44	B.E. (Civil)	22	2	19	1	20	—	—	4	12	16	—	—	1	1	1	17	85.00%
45	B.E. (Mech.)	17	2	14	1	15	—	2	10	1	13	—	1	—	—	1	14	93.33%
46	B.E. (Elect.)	12	—	12	—	12	1	—	5	2	8	—	—	—	—	—	8	66.66%

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
47	B.Text. (Engg.)	3	—	3	—	3	—	—	—	1	1	2	—	—	—	—	2	66.66%
48	B.Text. (Tech.)	1	—	1	—	1	—	—	—	1	1	1	—	—	—	—	1	100%
49	*M.E. (Civil)—Part I	12	3	9	—	9	—	—	—	6	6	—	—	—	—	—	6	66.66%
50	*M.E. (Civil)—Part II	13	—	13	—	13	—	—	£1	11	12	—	—	—	—	—	12	92.30%
51	*M.E. (Civil)—Part III	3	—	3	—	3	—	1	2	—	3	—	—	—	—	—	3	100%
52	*M.E. (Mech.)—Part I	3	—	3	—	3	—	—	—	3	3	—	—	—	—	—	3	100%
53	*M.E. (Mech.)—Part II	5	—	5	—	5	—	—	—	3	3	—	—	—	—	—	3	60.00%
54	*M.E. (Mech.)—Part III	2	—	2	—	2	—	1	1	—	2	—	—	—	—	—	2	100%
55	*M.E. (Elect.)—Part I	1	—	1	—	1	—	—	—	1	1	—	—	—	—	—	1	100%
56	*M.E. (Elect.)—Part II	10	1	9	—	9	—	—	—	9	9	—	—	—	—	—	9	100%
57	*M.E. (Elect.)—Part III	1	—	1	—	1	—	—	—	—	—	—	—	—	—	—	1	100%
58	III Year, B.Arch.	47	2	43	2	45	—	1	1	23	25	—	—	—	1	1	26	57.77%
59	B.Arch.	18	—	18	—	18	—	—	1	2	15	—	—	—	—	—	15	83.33%
60	First LL.B.	117	24	88	5	93	—	—	5	25	30	—	—	1	2	3	33	35.48%
61	Second LL.B.	75	9	62	4	66	—	1	11	16	28	—	—	1	2	3	31	46.96%
62	B.Sc. (Home)	7	—	—	7	7	—	—	—	—	—	—	—	—	—	—	7	42.85%
63	M.Sc. (Home)	3	1	—	2	2	—	—	—	—	—	—	—	—	—	—	3	100%
64	M.S.W.	7	—	6	1	7	—	—	—	—	—	—	—	—	—	—	7	57.14%
65	*Ph.D. (Arts)	3	—	2	1	3	—	—	—	—	—	—	—	—	—	—	3	100%
66	*Ph.D. (Science)	3	—	3	—	3	—	—	—	—	—	—	—	—	—	—	3	100%
67	*Ph.D. (Edu.)	1	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	100%

* No class awarded. § With C Grade. † With B Grade. ‡ The result of one candidate is not still declared.
 £ Declared to have passed the whole examination in Second Class as the candidate has cleared Parts I and III earlier.

7. Finance of the University

(1) Endowments received during the year:

The Syndicate accepted the following donations:

(a) Professor C. M. Master Memorial Collection Fund:

Donation of Rs. 7,500 from Professor C. M. Master Memorial Fund Committee, Bombay for the purchase of books on architecture and allied subjects. The books will be kept in a special cupboard marked "Professor C. M. Master Memorial Collection" in the library of the Faculty of Technology and Engineering.

(b) Anyonya Sahayakari Mandali Ltd. Amrit Mahotsava Prize Fund:

Donation in the form of 390 Conversion Loan, 1946 of the face value of Rs. 5,000 from the President, Anyonya Sahayakari Mandali Ltd., Baroda for awarding cash prizes (1) of Rs. 100/- in Post-graduate Diploma in Co-operation Examination and (2) of Rs. 50/- in the subject of 'Co-operation' at the final year B.Com. Examination held by the University.

(c) Professor T.K.N. Menon Gold Medal in Education:

Donation of Rs. 5,000 in the form of 45 Second Preference Shares of Tata Iron & Steel Co. Ltd. from the Chairman, Professor T.K.N. Menon Education Fund Committee for the institution of a Gold Medal to be awarded at the Annual Convocation to a student who passes the full M.Ed. Examination held by the University at the first attempt with the highest number of marks in the four compulsory papers and obtains at least a Second Class. In the case of a tie, the medal shall be awarded to a student who has passed the B.Ed. or its equivalent examination obtaining the highest number of marks.

(d) Professor D. Subba Rao Memorial Trophy Prize Fund:

Donation of Rs. 2,500 in the form of 25 Second Preference Shares of Tata Iron & Steel Co. Ltd. from the Secretary, Late Professor D. Subba Rao Memorial Fund Committee, Faculty of Technology and Engineering for awarding annually three cash prizes not exceeding Rs. 50, Rs. 30 and Rs. 20 to the speakers adjudged as First, Second and Third respectively at the Professor D. Subba Rao Memorial Extempore Inter-Faculty Debating Contest to be held during University Week.

(e) Dr. Jyotindra M. Mehta Gold Medal Fund:

Donation of Rs. 6,330 in the form of 60 Second Preference Shares of Tata Iron & Steel Co. Ltd. from Dr. Jyotindra M. Mehta for the institution of two gold medals to be awarded annually to the candidates passing Degree and Diploma Engineering Examinations as under:

(1) to the candidate securing first class first at the first attempt in the B.E. (Mech.) Examination to be held by the University in April/May.

(2) to the candidate securing first class first at first attempt in the Diploma Examinations in Civil, Mechanical and Electrical Engineering to be held by the University in April/May in the following order:

- (a) D.C.E. Examination
- (b) D.M.E. Examination
- (c) D.E.E. Examination

the above Cycle (a), (b), (c) repeating in this order every three years.

In the case of a tie, the medals will be awarded on the basis of merits of the performance at the immediately preceding University Examination.

(f) Vakil Dahyabhai Maganlal Parikh Gold Medal in Law:

Donation of 30 Second Preference Shares of Tata Iron & Steel Co. Ltd. from Shri Dahyabhai Maganlal Parikh, B.A., LL.B. (Advocate), Baroda for the institution of a gold medal to be awarded at the Annual Convocation to the student obtaining the highest number of marks at the final LL.B. Examination held by the University in April at the first attempt provided the student has passed his Ist LL.B. Examination of the University at the first attempt.

In the case of a tie, the medal shall be awarded to the student obtaining the higher number of marks in the paper on the Law of Evidence, Limitation & Civil Procedure Code.

(g) Veda Shashtra Sampanna Laxminath Badrinath Shastri Memorial Fund:

Donation of Rs. 2,525 in the form of 25 Second Preference Shares of Tata Iron & Steel Co., Ltd. from the President, late Shri Laxminath Badrinath Shastri Memorial Committee for awarding a 'Mahavastra' of the value of not more than Rs. 150 and the rest in cash, at the Annual Convocation to the student who has secured a first class with the highest number of marks at the final year Acharya Examination in any branch of the Uttam Kaksha of Baroda Sanskrit Mahavidyalaya, held by the University.

(h) Shri Vakil Nanalal Mohanlal Parikh Fund:

Donation of 20 Second Preference Shares of Tata Iron & Steel Co., Ltd. from Shri Vakil Nanalal Mohanlal Parikh, B.A., LL.B., Baroda for awarding a 'Mahavastra' at the Annual Convocation to the student obtaining the highest number of marks at the Annual Shastri Examination of Uttam Kaksha held by the University. Provided further that if a Mahavastra is not available, the prize shall be awarded in cash.

(i) **Shri Pranjivandas Tribhovandas Shah Prize Fund:**

Donation of \$ 316 (App. Rs. 1,500) from Shri Gamanlal P. Shah, California for the award of a cash prize to the student passing the final B.Sc. Examination with Principal Statistics of the University obtaining the highest number of marks in Statistics and joining the Jr. M.Sc. Class with Statistics in the succeeding academic year.

(j) **Professor P. J. Madan Gold Medal Fund:**

Donation of Rs. 6,150 in form of 60 Second Preference Shares of Tata Iron Steel Co., Ltd. from Professor P. J. Madan for the institution of two gold medals to be awarded annually to the students passing Degree and Diploma Engineering Examinations as under:

(1) to the candidate securing first class first at the first attempt in the B.E. (Electrical) Examination held by the University in March/April of the year.

(2) to the candidate securing first class first at the first attempt in the Diploma Examination in Civil, Mechanical and Electrical Engineering held by the University in March/April of the year in the following order of rotation:

D.M.E. Examination

D.E.E. Examination

D.C.E. Examination

The above order of rotation is to be repeated from the Examinations of 1968 onwards.

In the case of a tie, the above medals will be awarded to the candidates whose results of the immediately preceding university examination are better than of the other candidate figuring in the tie.

(k) **Rao Bahadur Ramlalbai Hiralalbai Desai Memorial Gold Medal Fund:**

Donation of 30 Second Preference Shares of Tata Iron & Steel Co., Ltd. from Shri Ranchhodlal Ramlalbai Desai for the institution of a gold medal to be awarded at the Annual Convocation to the student standing first in order of merit at the M.S.W. Examination of March/April held by the University, securing atleast grade 'B' and standing first at the first attempt.

Provided further that if no M.S.W. student is eligible, the medal shall be awarded to the student passing the M.A. Examination with Sociology, obtaining the highest number of marks, with first class and at the first attempt.

In the case of a tie, the medal shall be awarded to the student adjudged to be the best considering his performance during the course of his study at the Faculty.

(1) **Sau. Laxmiben Narayan Phadke and Shriyut Narayan Ramchandra Phadke Prize Fund:**

Donation of Rs. 2,000 in form of 20 Second Preference Shares of Tata Iron & Steel Co., Ltd. from Sau. Laxmiben Narayan Phadke for awarding a prize in cash to the student obtaining the highest number of marks in Marathi (Major) of the Final Year B.A. Examination held by the University in March/April at the first attempt.

In case no student is eligible for the award in Marathi (Major), the prize shall be awarded to the student obtaining the highest number of marks in 'Sanskrit' (Major) at the Final Year B.A. Examination held by the University in March/April at the first attempt.

(2) *Capital Accounts:*

Receipts and Payments for the year ended 31st March, 1965 (i.e. from 1st April, 1964 to 31st March, 1965)

(Subject to Audit)

I—University General Fund

<i>Receipts</i>	<i>Rs. P.</i>	<i>Payment</i>	<i>Rs. P.</i>
Interest	41,186-00	Building Works:	
Grant from the State Government	1,24,582-10	Adjustment of Electric Bills	932-45
(a) 50% Grant for the Building of the 18th Gujarat Engineering Platoon	1,00,582-10	Constructing a Students' Common Room with an attached Canteen in the Faculty of Commerce	20,778-66
(b) Grant for the additional Building for the Faculty of Home Science	24,000-00	Extension of the Canteen on the North side of the Students' Common Room, Faculty of Science	3,959-40
Adjustment of Expenditure on Buildings	97-69	Cement concrete approach road for the entrance of new Extension of Science Building	947-33
Donations for Building and Equipment for increased seats in Preparatory Classes	33,500-00	Providing cycle stand for 100 cycles in the Faculty of Social Work	4,236-99

<i>Receipts (Contd.)</i>	<i>Rs. P.</i>	<i>Payments (Contd.)</i>	<i>Rs. P.</i>
Loan from the State Government for construction of Administrative Staff Quarters	1,18,000-00	Barbed wire fencing around the magazine room in 3rd Gujarat N.C.C. Battalion	1,012-69
Grant from Sir Sayajirao Diamond Jubilee and Memorial Trust, Baroda	3,00,000-00	Approach road to the main building of Polytechnic	—
Opening Balance	2,90,186-69	Erecting a coal storage behind the kitchen of Sardar Patel Hall	670-33
		Extension of the Dinning Hall of Non-Vegetarian Canteen behind Maharashi Arvind Hall	7,714-66
		Separate Gate with vicket gate for Halls of Residence for Women students along with side Compound Walls and Cabin near Sevanti Baug	3,655-16
		Constructing and incinerator near Smt. Hansa Mehta Hall	798-78
		Protection wall on the west side Nala of Adhyapak Kutirs	4,652-30
		Providing new wire fencing on east side of University Office Compound	2,896-93
		Additional Building for the Faculty of Home Science (Post-graduate Departments of Child Development and Foods and Nutrition)	1,82,765-51
Carried over	9,07,552-48	Servants Quarters for the Ford Foundations Staff	23,820-10

<i>Receipts (Contd.)</i>	<i>Rs. P.</i>	<i>Payments (Contd.)</i>	<i>Rs. P.</i>
Brought forward	9,07,552-48	Removing the asbestos corrugated sheet roof and finishing G.V.I. Sheet Roof in the Auditorium of the Faculty of Technology and Engineering	4,675-28
		Shed at Polytechnic	1-00
		Additional space on account of increased seats in the Preparatory Classes	1,24,229-55
		Wire fencing around the Adhyapak Kutir's Wall	1,037-24
		General Education Building (the excess over Ford Foundation's Grant is charged here)	93,441-38
		Construction of Buildings out of Loans	
		(a) Construction of Administrative Staff Quarters:	
		(a) A Block	32,515-82
		(b) B Block	38,644-74
		(c) C Block	1,90,091-52
		(b) Hostel for Chemical Engineering	41,610-54
		(c) Servants' Quarters	91-60
		Excess Expenditure on buildings constructed out of grants sanctioned by the University Grants Commission and/or the State Government to be charged to this Fund as per approval of the authorities	
		(a) Hall of Residence for Women Students (No. III)	
Carried over	9,07,552-48	Pandita Gargi Hall	3,887-42

<i>Receipts (Contd)</i>	<i>Rs. P.</i>	<i>Payments (Contd.)</i>	<i>Rs. P.</i>
Brought forward	9,07,552-48	(b) Construction of 4 Readers and 8 Lecturers Quarters	112-15
		(c) Non-Resident Students' Centre	76-80
		Total	7,89,256-33

Less: Adjustment of Expenditure charged to excess of expenditure over grants

(a) Construction of 13 Readers and 20 Lecturers Quarters	28,745-99
(b) Non-Resident Students' Centre	192-38
	28,938-37
Total (Expenditure Building Works)	7,60,317-96

Excess: Receipts over Disbursements i.e. Surplus 1,47,234-52

Grand Total 9,07,552-48

Grand Total 9,07,552-48

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

<i>Receipts</i>	<i>Rs. P.</i>	<i>Payments</i>	<i>Rs. P.</i>
Interest	38,757-80	Amount to be transferred for the excess recurring expenditure of the Unit over and above the State Government Grant	30,311-11
Gain on Maturity of Security	563-34		
Opening Balance	11,30,966-99	Closing Balance	11,39,977-02

Total 11,70,288-13

Total 11,70,288-13

III—Post-Graduate Instruction and Research Fund

<i>Receipts</i>	<i>Rs. P.</i>	<i>Payments</i>	<i>Rs. P.</i>
Interest	1,42,210-50	Expenditure on Research Grants	98,180-34
Recovery of last year expenditure	1,748-25	Contribution to Professor T. K. Gajjar Chair in Microbiology Fund	20,000-00
Opening Balance	44,47,489-21	Research Assistants	29,311-08
		Scholarships to Ph.D. Students	6,903-22
		Closing Balance	44,37,053-32

Total 45,91,447-96

Total 45,91,447-96

(3) Revenue Accounts:

Receipts and Expenditure for the year ended 31st March, 1965 (i.e. from the
1st April, 1964 to the 31st March, 1965)

(Subject to Audit)

Sr No	Receipts	Rs. P.	Sr. No.	Disbursements	Rs. P.
I	Tuition Fees and other Income from Faculties and Institutions:	24,53,092-65	I	University General Administration	3,15,589-11
(A)	Faculties:		II	Examination Charges	4,52,662-32
(a)	Faculty of Arts	3,47,804-75	III	Deadstock and Repairs	37,930-00
(b)	Faculty of Science	5,17,492-18	IV	Publications	19,391-23
(c)	Faculty of Education and Psychology	1,20,731-78	V	Information and Publicity	7,941-29
(d)	Faculty of Commerce	2,97,168-50	VI	Remuneration to Lecturers	1,000-00
(e)	(i) Faculty of Technology and Engineering		VII	Travelling Allowance	34,650-01
	(ii) Expansion Scheme of Degree courses	4,66,602-95	VIII	Printing and Stationery	41,635-65
	(iii) Expansion Scheme of Diploma courses (Polytechnic)	1,48,750-00	IX	Maintenance of Buildings and Roads and Temporary Establishment for Capital Works	1,04,667-74
(f)	Faculty of Law	1,81,577-42	X	Maintenance of Gardens	31,448-29
(g)	Faculty of Fine Arts	90,922-50	XI	Municipal Taxes and Law Charges	9,573-32
(h)	Faculty of Science	34,626-91	XII	(a) University Contribution to Provident Fund	16,326-19
(i)	Faculty of Social Work	1,84,653-68	(b)	Contribution to Gratuity Fund	9,623-00
		29,264-05	XIII	Miscellaneous	2,10,666-03
			XIV	Scheme of Teaching Hindi to University Employees	174-19
			XV	Health Centre	29,369-99

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Sr No.	Receipts	Rs. P.	Sr. No.	Disbursements	Rs. P.
(B)	Institutions:		XVI	University Guest House	8,408-03
(1)	College of Indian Music, Dance and Dramatics	31,880-00	XVII	50 % Expenditure of the University Grants Commission	8,159-95
(2)	Preparatory Classes Unit	1,602-37	XVIII	University Library	2,34,956-45
(3)	Sanskrit Mahavidyalaya	15-56	XIX	Physical Education Department	1,19,792-38
II	Examination Fees	6,02,133-49	XX	Faculties and Institutions	55,91,238-43
III	Other Fees	1,63,067-09	(A)	Faculties:	
IV	Income from Publications	37,751-41	(a)	Faculty of Arts	4,95,671-46
V-A	(1) Grant from the State Government (Block Grant)	33,50,372-00	(b)	Faculty of Science	10,75,347-32
(2)	Grant from the State Government (Additional Block Grant) for Expenditure on development Plans, Schemes which have completed 5 years period and hence become 100 % liability of the State Government		(c)	Faculty of Education and Psychology	4,03,064-25
V-B	Grant from the University Grants Commission and the State Government towards the increase in salary of the teaching staff due to Grade Revision	9,799-52	(d)	Faculty of Commerce	1,76,823-49
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		(e)	(i) Faculty of Technology and Engineering	11,22,823-54
VI	Interest on Cash Balance	10,418-59	(ii)	Expansion Scheme of Degree Course	3,08,102-77
			(iii)	Expansion Scheme of Diploma Courses (Polytechnic)	5,38,716-15
			(f)	Faculty of Law	76,011-08
			(g)	Faculty of Fine Arts	2,72,027-31
			(h)	Faculty of Home Science	4,91,200-98
			(i)	Faculty of Social Work	1,65,942-21

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Sr No	Receipts	Rs P	Sr. No.	Disbursements	Rs. P.
VII	Income from Halls of Residence for Students	4,08,007-30	(B)	Institutions:	
VIII	Income from use and of occupations of University Quarters and Bungalows including Furniture Rent	1,31,163-77	(1)	Oriental Institute	1,15,755-04
IX	Income from University Guest House	3,140-00	(2)	College of Indian Music, Dance and Dramatics	2,35,650-94
X	Miscellaneous Income	1,40,342-45	(3)	Preparatory Classes Unit	51,668-08
XI	Income from M. S. University of Baroda Press	3,09,703-28	(4)	Sanskrit Mahavidyalaya	62,433-81
XII	Income from M. S. University Stationery Unit	1,46,472-37	XXI	M. S. University of Baroda Press	3,15,899-34
XIII	Income from University Health Centre	2,714-96	XXII	M. S. University Stationery Unit	1,41,654-10
XV	Sheth U. P. Ayurvedic Research Unit	63,340-41	XXIII	M. S. University Publication Sales Unit	12,286-84
	Total Receipts	81,31,519-20	XXIV	Halls of Residence for Students	4,59,893-08
			XXV	Sheth U. P. Ayurvedic Research Unit	63,340-41
			XXVI	Development Schemes which have completed 5 years (from 1-4-'64 onwards)	1,54,552-74
Excess of Disbursements over Receipts i.e. (Deficit)					
(a)	Deficit on the normal recurring amount	3,01,310-91			
(b)	Deficit on the schemes which have completed Five Years period and for which additional (100%) grant is due from the State Government	1,46,758-17			
		1,54,552-74			
Grand Total		84,32,830-11	Grand Total		84,32,830-11

(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:

	<i>Amount Rs. P.</i>
1. University Grant Commission	25,80,784-53
2. Government of Gujarat (matching grant)	11,01,029-72
3. Council of Scientific and Industrial Research	47,799-11
4. Government of Gujarat (Research and other Schemes)	1,01,142-24
5. Planning Commission	5,500-00
6. Federation of Gujarat Mills and Industries	500-00
7. Ministry of Community Development and Co-operation	3,337-00
8. National Council of Educational Research	3,820-00
9. Lady Tata Memorial Trust	1,000-00
10. Government of India, Ministry of Education	1,62,401-39
11. Government of Gujarat, Department of Agricultural and Rural Development	33,300-61
12. Indian Council of Agricultural Research	3,000-00
13. Government of India, Community Project Administration	96,687-49
14. Government of India, Ministry of Scientific Research and Cultural Affairs	74,400-00
15. UNICEF	18,000-00
16. Muscular Dystrophy Association Inc. Zoology (America)	11,429-85
17. Disbursing office, American Embassy, New Delhi (U. S. Department of Agriculture) American P. L. 480 Programme	91,071-00
18. Archaeological Survey of India	4,000-00
Total	43,39,202-94

8. Construction Division

(1) Works completed:

The following works were completed during the year:

Description of the work	Expenditure on the work or building during the year		Total Expenditure on the building or work	
	Rs.	P.	Rs.	P.
I. University General Fund:				
(i) Constructing a student's common room with an attached Canteen in the Faculty of Commerce	20,778-66		20,778-66	
(ii) Extension of the Canteen on the North side of the Students' Common Room in the Faculty of Science	3,954-40		3,954-40	
(iii) Cement Concrete Approach Road for the entrance of New Extension of Science Building	947-33		947-33	
(iv) Providing Cycle stand for 100 cycles in the Faculty of Social Work	4,236-99		4,236-99	
(v) Barbed wire fencing around the Magazine Room in 3rd Gujarat N.C.C. Battalion	1,012-69		1,012-69	
(vi) Erecting a coal storage behind the kitchen of Sardar Patel Hall	670-33		670-33	
(vii) Separate gate with wicket gate for Halls of Residence for women students along with side compound walls and cabin near Shevanti Baug	3,655-16		3,655-16	
(viii) Constructing an incinerator near Shrimati Hansa Mehta Hall	798-78		798-78	
(ix) Protection wall on the West side Nala of Adhyapak Kutirs	4,652-30		4,652-30	
(x) Providing New Wire fencing on East side of University Office Compound	2,896-93		2,896-93	
(xi) Servants' Quarters for the Ford Foundation Staff	23,820-10		23,820-10	
(xii) Removing the asbestos corrugated sheet roof and finishing G.C.I. sheet roof in the Auditorium of the Faculty of Technology and Engineering	4,675-28		4,675-28	
(xiii) Wire fencing around the Adhyapak Kutir well	1,037-24		1,037-24	

Description of the work	Expenditure on the work or building during the year		Total Expenditure on the building or work	
	Rs.	P.	Rs.	P.
II. Construction of Buildings out of Loans:				
Construction of Administrative Staff Quarters				
A. Block	32,515-82		68,813-83	
B. Block	38,644-74		77,535-31	
C. Block	1,90,091-52		2,52,495-70	
III. Construction of Buildings from the Ford Foundation Grant				
General Education Centre Building	1,18,441-38		15,14,618-23	
IV. Works of Depreciation Grant:				
(i) Replacing the broken glazed shutters by new ones of windows on ground floor North side of Physics Department, Faculty of Science	2,281-34		2,281-34	
(ii) Providing compound light for Servants' Quarter behind Old University Office	375-81		375-81	
(iii) Replacing the wooden floor and stair of Verandah of the 17th Guj. Air Squadron N.C.C. Building in the compound of University Press	1,000-49		1,000-49	
V. Works of Grants:				
(i) Extension of the Physics Laboratory, Faculty of Science	48,607-79		78,036-72	
(ii) Building for the Botany Department of Faculty of Science	45,886-90		1,12,984-53	
(iii) Extension to the South Wing of Shrimati Hansa Mehta Hall	1,36,072-13		2,10,201-48	
(iv) Construction of 4 Lecturers' Quarters (Adhyapak Kutir 'L' Block)	77,117-48		77,140-80	
(v) Construction of 4 Lecturers' Quarters (Adhyapak Kutir "M" Block)	74,851-22		77,873-54	
(vi) Construction of 4 Professors' Quarters (Vikram-bag "C" Block)	1,28,466-09		1,63,135-06	
(vii) Development of Botanical Gardens	33,649-09		33,649-09	

(2) Works in Progress:

The following works were in progress during the year:

Description of the work	Expenditure on the work or building during the year		Total Expenditure on the building or work	
	Rs.	P.	Rs.	P.
I. University General Fund:				
(i) Water Supply Scheme in the University Campus	—		2,37,999	81
(ii) Provision for Adjustment for the Electric Bills. (This is in connection with the service connection taken from the Electric Department, Baroda Borough Municipality for the buildings completed in the previous years)	923	45	964	15
(iii) Extension of the Dining Hall of Non-Vegetarian Canteen behind Maharshi Arvind Hall	7,714	66	7,714	66
(iv) Additional Building for the Faculty of Home Science (Foods and Nutrition Department)	1,82,765	51	1,82,765	51
(v) Shed at Polytechnic	1	00	1	00
(vi) Additional space on account of increased seats in the Preparatory Classes (Building for Preparatory Science Unit)	1,24,229	25	1,24,229	25
II. Construction of Buildings out of Loans:				
Hostel for Chemical Engineering	41,636	14	41,636	14
III. Works of Grants:				
(i) Building for the Geology Department including Applied Geology, Faculty of Science	1,21,245	62	2,39,022	89
(ii) Construction of 8 Readers' Quarters (Vikrambag "J" and "K" Blocks)	1,41,706	71	1,92,631	62
(iii) Construction of 4 Lecturers' Quarters (Adhyapak Kutirs "N" Block)	64,330	35	67,348	67
(iv) Additional Building for the Faculty of Home Science (Child Development Department)	1,04,374	28	1,10,611	37
(v) Extension to the Chemistry Department, Faculty of Science	51,966	68	51,966	68
(vi) Extension to the Zoological Department, Faculty of Science	31,222	70	31,222	70

Description of the work	Expenditure on the work or building during the year		Total Expenditure on the building or work	
	Rs.	P.	Rs.	P.
(vii) Construction of one Hall of Residence for Women students	2,24,316	14	2,24,446	47
(viii) Centre of Advanced Study in Education	16,436	50	16,436	50
(ix) Building for the Department of Chemical Engineering	85,788	73	85,788	73
(x) One Teachers' Hostel for 24 Units	1,34,950	65	1,34,950	65

Some additional expenditure was incurred on the following works which were completed last year:

Works of Grants:

(i) Lecturers' Quarters 12 Nos. (Adhyapak Kutirs "I", "J" and "K" Blocks)	1,174	37	2,34,039	57
(ii) Readers' Quarters 8 Nos. (Vikrambag "H" and "I" Blocks)	13,783	57	2,50,702	18
(iii) Professors' Quarters 4 Nos. (Vikrambag "B" Block)	17,746	79	1,77,151	53

The total expenditure on Capital Works during the year was Rs. 23,67,451-09.

(3) Ordinary and Special Repairs:

The total expenditure on repair work during the year was Rs. 1,02,218-08 and Rs. 1,68,244-56 for Ordinary and Special Repairs respectively. Also expenditure amounting to Rs. 7,141-96 was incurred on immediate petty repairs to buildings.

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., Ph.D., Bar-at-Law continued to work as Honorary Vice-Chancellor under Statute 115 during the period from the 1st to 29th April, 1964.

Dr. C. S. Patel, B.A., M.Sc. (Bom.), Ph.D. (Leeds) who was elected as Vice-Chancellor, assumed office on the 30th April, 1964 and continued to work as Honorary Vice-Chancellor under Statute 115 upto the end of the year.

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

Professor P. J. Madan, B.Sc. (Eng.) (Edin.), M.Sc. (Eng.), D.I.C., M.Inst. H.E. (London), M.I.E. (India), who was elected as the Pro-Vice-Chancellor, assumed the office on the 7th December, 1964 and continued to work as the Pro-Vice-Chancellor under Statute 120.

(4) *Deans of Faculties:*

The following persons worked as Deans of the respective faculties:—

Faculty	Dean
Arts	Professor V. Y. Kantak
Science	Professor S. M. Sethna
Education and	Professor S. N. Mukerjee (Upto 13th January, 1965)
Psychology	Professor M. S. Patel (from 14th January, 1965)
Commerce	Professor B. G. Shah (Upto 30th June, 1964)
	Dr. K. N. Naik (from 1st July, 1964)
Medicine (Faculty)	Dr. T. V. Patel (from 29th June, 1964)
(College)	Dr. J. D. Pathak (upto 19th June, 1964)
	Dr. A. D. Joseph (from 20th June, 1964)
Technology and	Professor P. J. Madan (upto 6th December, 1964)
Engineering	Professor L. B. Shah (from 7th December, 1964)

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 the Librarian.

(7) *Other Officers:*

Name	Designation
(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
(iv) Shri A. J. Desai	Principal, University Experimental School

CHAPTER III—THE SYNDICATE AND THE SENATE

1. The Syndicate

The Syndicate consisted of 15 members. During the year the Syndicate held 11 meetings in which they considered and passed resolutions on 890 items. The following statement shows the attendance of the members at the ordinary and Special meetings of the Syndicate during the year:

Name	No. of meetings held	Class of meetings O—Ordinary S—Special	Pre-sent	Absent	Remarks
Dr. Jyotindra M. Mehta Vice-Chancellor	1	S.1	S.1	—	Ceased to be a member from 29-4-1964
Dr. C. S. Patel Vice-Chancellor	11	O.4 S.7	O.4 S.7	—	Became Vice-Chancellor from 30-4-1964
Professor P. J. Madan Pro-Vice-Chancellor	11	O.4 S.7	O.4 S.7	—	Became Pro-Vice-Chancellor from 22-11-1964
Director of Education or his nominee	11	O.4 S.7	O.1 S.6	O.1 S.1	
Shri J. S. Parikh	11	O.4 S.7	O.4 S.7	—	
Shri D. M. Parikh	11	O.4 S.7	O.4 S.7	—	
Dr. (Smt.) Hansa Mehta	3	O.1 S.2	—	O.1 S.2	Ceased to be a member from 28-7-1964
Dr. B. B. Yodh	11	O.4 S.7	O.1 S.2	O.3 S.5	
Shri N. D. Chokshi	11	O.4 S.7	O.3 S.7	O.1 —	
Shri C. C. Mehta	11	O.4 S.7	O.4 S.7	—	
Prof. B. G. Shah	2	— S.2	— S.2	—	Ceased to be a member from 1-7-1964



The Senate Procession

<i>Name</i>	<i>No. of meet- ings held</i>	<i>Class of meetings O-Ordinary S-Special</i>	<i>Pre- sent</i>	<i>Absent</i>	<i>Remarks</i>
Dr. T. V. Patel	11	O.4 S.7	O.3 S.7	O.1 —	
Prof. B. J. Sandesara	11	O.4 S.7	O.4 S.7	— —	
Professor S. M. Sethna	11	O.4 S.7	O.4 S.7	— —	
Smt. Ansuya I. Amin	11	O.4 S.7	O.2 S.4	O.2 S.3	
Shri P. C. Hathi	4	O.2 S.2	O.2 S.1	— S.1	Became a mem- ber from 22-11-1964
Professor N. S. Bendre	4	O.2 S.2	O.2 S.1	— S.1	Became a mem- ber from 22-11-1964

2. The Senate

The Senate consisted of 92 members in the beginning, Shrimati Mrunalini Sarabhai and Dr. C. B. Patel have been nominated to the Senate by the State Government. The number has now become 94. The changes in the membership during the year were as under:

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

Professor S. N. Mukerjee, Professor B. G. Shah, Dr. J. D. Pathak, Dr. M. C. Desai, Shri S. J. Coelho, Shrimati Renuka Mukerjee, Dr. R. K. Trivedi, and Shrimati Leenaben Mangaldas.

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

Dr. K. N. Naik, Dr. A. D. Joseph, Shri G. G. Dhanak, Shri R. L. Pathak, Shri S. M. Ghosh, Dr. C. B. Patel and Shrimati Mrunalini Sarabhai.

The Senate met twice during the year on the 22nd November, 1964 and the 28th March, 1965. 66 members attended the meeting held on the 22nd November, 1964 and 53 members on the 28th March, 1965.

First Meeting (22nd November, 1964)

The following business was transacted:

(i) Professor P. J. Madan was elected as Pro-Vice-Chancellor under section 12(1) of the Act.

(ii) Shri P. C. Hathi was elected as member of the Syndicate under section 23(2) (v) of the Act.

(iii) Professor N. S. Bendre was elected as member of the Syndicate under section 23(2) (vi) of the Act.

(iv) The following persons were elected on the Board of Accounts under Statute 103:

Shri Chandravadan Chimanlal, Shri B. G. Contractor and Shri S. S. Shukla.

(v) The following persons were elected on the Board of Extra Mural Studies under Ordinance (24) (6):

Shri D. K. Patel and Shri S. S. Shukla.

(vi) The following persons were elected to the Board of Visitors:

Name	Faculty
Dr. Kalyan Bagchi	Home Science
Shri C. C. Mehta	Social Work

(vii) Dr. T. V. Patel was elected member to the Medical Council.

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

Sr. No.	Name	Ex-officio/elected/ nominated	Faculty
1.	Dr. K. N. Naik	Ex-officio	Commerce
2.	Dr. A. D. Joseph	Ex-officio	Medicine
3.	Shri K. G. Badlani	Ex-officio	Arts, Law
4.	Shri S. M. Ghosh	Ex-officio	Commerce
5.	Shrimati Mrunalini Sarabhai	Ordinary	Fine Arts
6.	Dr. C. B. Patel	Ordinary	Technology and Engineering

(ix) Supplementary grants amounting to Rs. 2,54,673 in the Revenue Budget were sanctioned.

(x) Statutes 91, 119 and 155 were amended.

(xi) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 7 of the Hand Book Part II—1961 were passed.

(xii) (a) The Fifteenth Annual Report and the Fifteenth Annual Accounts of the University for the year 1963-64 were passed.

(b) The excess expenditure over the revised estimates for the year 1963-64 was also sanctioned.

(xiii) The proposal to institute the following new posts was considered and passed:

I Faculty of Science

1. Reader in Physics (Nuclear Physics)
2. Reader in Microbiology
3. Lecturer in Microbiology
4. Lecturer in Microbiology

II Faculty of Education and Psychology (General Education Department)

1. Reader in General Education (Co-ordinator)
2. Lecturer in General Education
3. Lecturer in General Education (Centre for Advanced Study in Education)
4. Reader in Curriculum (with retrospective effect from 24-8-1964)

III Faculty of Technology and Engineering

1. Professor of Physics
2. Reader in Physics
3. Professor in Chemistry
4. Reader in Chemistry
5. Professor of Mathematics
6. Reader in Mathematics
7. Reader in Civil Engineering
8. Reader in Civil Engineering
9. Reader in Applied Mechanics
10. Lecturer in Applied Mechanics
11. Reader in Mechanical Engineering
12. Reader in Electrical Engineering
13. Reader in Electrical Engineering
14. Lecturer in Electrical Engineering
15. Reader in English and Humanities
16. Reader in Geology

IV Polytechnic

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

(B) "That the designations of the following instituted posts in the Faculty of Education and Psychology be amended as mentioned against the posts:

<i>Present Designation</i>	<i>Proposed Designation</i>
1. Reader in Educational Psychology	1. Reader in Psychometrics
2. Reader in Educational Psychology	2. Reader in Language Learning".

Second Meeting (28th March, 1965)

The following business was transacted:

(i) Professor M. S. Patel was elected as a member of the Syndicate under section 23(2) (vi) of the Act.

(ii) Dr. Chamanlal M. Mehta was elected as a member on the Board of Visitors for the Faculty of Medicine.

(iii) Dr. T. V. Patel, Ex-officio Fellow was assigned to the Faculty of Medicine.

(iv) The Annual Financial Statement comprising of the revised estimates for the year 1964-65 and the estimates for the year 1965-66 was considered and passed.

(v) Amendments and additions made to Ordinances and Rules mentioned in Pamphlet No. 8 of the Hand Book Part II—1961 were considered and passed.

(vi) The proposal to institute the following new posts was considered and passed:

I Faculty of Arts

Lecturer in German

II Faculty of Home Science

Reader in Home Management

CHAPTER IV—OTHER AUTHORITIES OF THE UNIVERSITY

1. Council of Post-graduate Studies and Research

The Council of Post-graduate Studies and Research met thrice during the year on the 10th April, 1964, 10th August, 1964 and 1st February, 1965 and considered in all 76 items referred to it. The following are the main items considered and recommended by the Council and approved subsequently by the Syndicate.

(1) 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 1965-66. The names of the schemes are given in Chapter VI dealing with Research Work in the University.

(2) Recommended that (i) Atomic Energy Establishment, Bombay (Government of India) and (ii) All India Institute of Local Self-Government, Bombay be recognised for carrying on research by the students for the Ph.D. Degree of this University: it also recommended recognition of two members of the staff of the All India Institute of Local-Self-Government, Bombay; eight members of the staff of the Central Leather Research Institute, Madras for guiding research work.

(3) Recommended the recognition of 23 more teachers as Post-graduate teachers in different subjects.

(4) Recommended that the appointment of the Internal Referee be not made where these are submitted for the Ph.D. degree by candidates working independently and hence only two external referees be appointed. It also recommended that a Ph.D. student after completing four terms under a recognised teacher, shall be at liberty to submit his thesis independently in case the guide under whom he has worked leaves this University.

(5) Recommended that the amended O. Ph.D. 9 and new O. Ph.D. 10 be approved and that these be included in the Ph.D. Ordinances.

(6) Approved the procedure laid down for registering students for the Ph.D. of this University at the National Laboratories or Institutions recognised by the University for the purpose.

(7) Recommended that the Research Laboratories of the Alembic Chemical Works Ltd., Baroda, which has a well-qualified staff and adequate library and other facilities and is also situated within the territorial jurisdiction of this University be recognized to guide students who are eligible for enrolment for the

Ph.D. degree even though they be not deputed for such studies nor have passed the qualifying Master's Degree from this University.

All the above recommendations were subsequently approved by the Syndicate.

2. Faculties

The Faculty meetings were held during the year as shown below:

<i>Sr. No.</i>	<i>Name of the Faculty</i>	<i>Date of meetings</i>
(i)	Arts	20-12-1964
(ii)	Science	20-12-1964
(iii)	Commerce	20-12-1964
(iv)	Education and Psychology	20-12-1964
(v)	Medicine	22-11-1964
(vi)	Technology and Engineering	21-1-1965
(vii)	Fine Arts	7-3-1965
(viii)	Home Science	4-10-1964
(ix)	Social Work	21-9-1964
(x)	Law	28-2-1965
(xi)	Joint meeting of the Faculties of Arts, Science and Commerce	20-12-1964

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

(1) Faculty of Arts:

- (i) Approved the modified O. A. 18 as under:

O. A. 18: Candidates who have passed at the B.A. Examination with one set of subjects will be allowed to appear again after keeping two additional terms provided that the new optionals offered by them as Minor and Major subjects are not the same as those with which they have passed the examination.

Such students shall be eligible to claim exemption in the compulsory paper in English of the S.Y.B.A. course and they shall be entitled to earn a class subject to the provisions of para three of the O. A. 20.

- (ii) Approved that the special Diploma course in German Language for Technicians and Scientists be introduced as and when staff is available.
- (iii) Approved the syllabi etc. for the Certificate and Diploma courses in Russian and French.

- (iv) Approved that the course in Indian Philosophy (Entire) be instituted at M.A. in the Faculty of Arts and also approved the syllabi and Book-lists for the course.

- (v) Approved the syllabus for the newly introduced course in B.A. Major in Linguistics.

(2) Faculty of Science:

- (i) Approved the syllabus for proposed optional group of Nuclear Physics at the M.Sc. (Final) Physics Examination to be introduced next year.
- (ii) Approved the syllabus for the subject of Material Science at the M.E. Examination.
- (iii) Approved the revised syllabus for the subject of Modern Physics at the M.E. (Electrical Engineering)—Part I in light of the course in Material Science.
- (iv) Decided to introduce a paper in ' Advanced Nutrition ' as an optional paper and also to retain the paper on ' Fermentation Chemistry ' as an optional one.
- (v) Approved new syllabi for M.Sc. degree course in Bio-chemistry.
- (vi) Approved the syllabi for M.Sc. (Geology) and M.Sc. (Applied Geology) courses.
- (vii) Approved the new ordinances for M.Sc. (Previous) and M.Sc. (Final) Examinations.

(3) Faculty of Commerce:

- (i) Approved the syllabus in the subject of Transport to be introduced as an Optional group in the B.Com. degree course.

(4) Faculty of Education and Psychology:

- (i) Approved to allow B.Ed. students to answer their question papers in any of the four languages viz. English, Hindi, Marathi or Gujarati with effect from March 1966 examinations.

(5) Faculty of Medicine:

- (i) Approved the post-graduate degree course in Pediatrics (M.D. Pediatrics)
- (ii) Recommended that the present Ordinance M. 75 be amended so that the degree holders of B.Pharm and B.V.Sc. & A.M. examinations be considered eligible for admission to M.Sc. Pharmacology course.

- (iii) Recommended that the resolution contained in the letter No. MCI-7(33)/64-Med./17788 dated the 19th October, 1964 from the Secretary, Medical Council of India, New Delhi regarding the migration of students during M.B.B.S. course be accepted provided seats are available and similar facilities are extended to our students.

(6) *Faculty of Technology and Engineering:*

- (i) Recommended that students who have passed the B.E. (Mech.) examination be also considered eligible for admission to the M.Text. (Eng.) Degree course.
- (ii) Recommended that the present Diploma course in Textile Chemistry of Three Years' duration after S.S.C. be converted into two years degree course after B.Sc. leading to the degree of B.Sc. (Tech.) Textile Chemistry.
- (iii) Made a provision that the students who have passed the Diploma Examination in Textile Technology of this University held in 1957 and subsequent years in First Class be considered eligible for admission to the Third Year Textile Technology degree course subject to certain conditions.
- (iv) Approved the Transitory Ordinances for the degree course in Architecture.
- (v) Recommended that one year practical experience certificate be not insisted upon for conferring the degree of Bachelor of Architecture to successful candidates and the provisions of O. TE 120 be deleted.
- (vi) Recommended the introduction of a post-graduate course in Urban Design from the academic year 1965-66.
- (vii) Recommended to include the proposals of instituting (1) the two years Diploma course in Building Trades and (2) the post-graduate course in Product Design (related to Building) in its IVth Five Year Plan period.
- (viii) Recommended that the existing Four Year Part-time Diploma Courses in CME be renamed as "Extended Diploma Courses" with a view to distinguish them from the full time three year diploma courses in CME.
- (ix) Approved Ordinances, syllabi, scheme of examinations etc. consequent upon switching over from the 4 years to 5 years integrated degree courses in CME.
- (x) Approved Ordinances, syllabi, scheme of examinations relating to the Special Degree Course for the benefit of Diploma holders in the corresponding branches.

- (xi) Approved Ordinances, syllabi, scheme of examinations etc. for the post B.Sc. (Physics) Degree Course of 3 years duration in Electronic Engineering.
- (xii) Recommended that the Ordinances, scheme of examinations, syllabi etc. for the I B.E. and II B.E. examinations of the proposed Five Year Integrated Degree Course in Metallurgy be same as those of the I B.E. and II B.E. examinations of the Five Year Integrated Degree Course in Civil, Mechanical, Electrical and Chemical Engineering.
- (xiii) Approved the schemes of working and examination, syllabi, standard of passing, etc. of one year Post-graduate Diploma Course in Refrigeration and Air-conditioning.

(7) *Faculty of Fine Arts:*

- (i) Approved the new syllabus of European Art.
- (ii) Approved to institute the Ph.D. degrees in the Faculty of Fine Arts.
- (iii) Approved to provide instruction in Degree Course in Sarangi.
- (iv) Approved to introduce the subject of 'Art of Production' only on the pattern of General Education in the second and third year Degree Courses in Dance.
- (v) Approved to restore (a) the old degree course post S.S.C. leading to B.Mus. (4 years) and M.Mus. (2 years), (b) post-graduate course in Dramatics, (c) three year diploma course in Dramatics; also approved the institution of the Ph.D. Degree Course in Dramatics from 1965-66 and the scheme of examination of the new course leading to Diploma in Dramatics.

(8) *Faculty of Home Science:*

- (i) Approved the outlines of the syllabi and the introduction of the new courses in the various semesters of the B.Sc. (Home) and M.Sc. (Home) examinations.
- (ii) Approved that the students who have passed (1) higher examinations or obtained a Diploma in Home Science, (2) 1st year of the three year Degree Course examinations in Arts and Science or Final Year B.A. or B.Sc. degree examination or any equivalent examinations be taken in the first instance in the first year class but be exempted from courses which they have passed in the previous course of study.
- (iii) Approved to reduce credits from 60 to 55 and also the distribution of these credits in the M.Sc. (Home) programme.

(9) Faculty of Social Work:

- (i) Amended Ordinances Nos. O. S.W. 5(ii)(1)(C) and O. S.W. 12 relating to the M.S.W. Course.

(10) Faculty of Law:

- (i) Formulated the views of the Faculty on each of the proposals of the Bar Council of India in the matter of reorganising legal education.

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

- (i) Approved the syllabus for the Paper III and IV in Industrial Statistics and Advanced Design of Experiments for M.Sc. (Final) examination in Statistics.
- (ii) Approved the recommendation of the Inter-University Board of India regarding introduction of Post-graduate Diploma Course in Geographical Cartography. Also approved the scheme for Post-graduate Diploma in Geographical Cartography.
- (iii) Decided that the revised syllabi in Geography be made effective at all levels of the three year degree course from the year shown against each of them as under:

Sr. No.	Name of Examination	Year of Examination
1.	F.Y.B.A. & F.Y.B.Sc.	From 1965 Examination
2.	S.Y.B.A. & S.Y.B.Sc.	From 1965 Examination
3.	T.Y.B.A. & T.Y.B.Sc.	From 1966 Examination

- (iv) Recommended that the provisions regarding eligibility of B.A. passed students with Geography or Mathematics for admission to the M.Sc. Course in the respective subjects be deleted and status quo be maintained.

3. Board of Studies

Sr. No.	Name of the Board	Dates of the meetings
(i)	Sanskrit, Pali and Ardha-Magadhi Languages and Literature	24-8-1964
(ii)	Persian, Urdu and other Asian Languages and Literature	29-8-1964
(iii)	Hindi Language and Literature	28-9-1964
(iv)	Gujarati Language and Literature	31-8-1964
(v)	Marathi Language and Literature	31-8-1964
(vi)	English Language and Literature	1-10-1964

Sr. No.	Name of the Board	Dates of the meetings
(vii)	Modern and Ancient European Languages and Literature	2-9-1964
(viii)	Sociology	21-9-1964
(ix)	History, Archaeology and Ancient Indian Culture	15-9-1964
(x)	Philosophy	24-8-1964
(xi)	Linguistics	5-9-1964
(xii)	Library Science	17-8-1964
(xiii)	Law	12-9-1964
(xiv)	Physics and Meteorology	11-9-1964
(xv)	Chemistry	23-9-1964
(xvi)	Botany	12-10-1964
(xvii)	Zoology	5-9-1964
(xviii)	Bio-chemistry	26-9-1964
(xix)	Education	28-9-1964
(xx)	Psychology	28-9-1964
(xxi)	Banking and Business Finance	29-8-1964
(xxii)	Accounts	26-9-1964
(xxiii)	Co-operation	10-9-1964
(xxiv)	Commerce including Business Administration	14-9-1964
(xxv)	Anatomy and Physiology	19-9-1964
(xxvi)	Pharmacology and Pathology	8-10-1964
(xxvii)	Medicine, Surgery, Midwifery, etc.	26-9-1964
(xxviii)	Technology (Textile)	29-9-1964
(xxix)	Engineering	3-10-1964
(xxx)	Painting, Sculpture and Applied Arts	25-9-1964
(xxxi)	Architecture	4-10-1964
(xxxii)	Music, Dance and Dramatics	30-9-1964
(xxxiii)	Museology	21-9-1964
(xxxiv)	Home Science	3-10-1964
(xxxv)	Social Work	21-9-1964
(xxxvi)	Mathematics	6-10-1964
(xxxvii)	Statistics and Actuarial Science	27-9-1964
(xxxviii)	Geography	3-10-1964
(xxxix)	Economics	30-9-1964
(xl)	Politics and Administration	29-8-1964
(xli)	Geology	18-11-1964

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

A meeting of the Board of Sports was held on the 29th August, 1964. The Board amended O. 260N regarding payment of T.A., H.A., etc to participants in tournaments, matches and competitions outside Baroda. The Board approved selection of teams in Cricket, Tennis, Hockey, Foot ball, Volley ball, Basket ball, Badminton, Table Tennis, Athletics, Swimming and Diving, Wrestling, Boxing, etc. to be sent to participate in the Inter-University tournaments. The Board appointed Committees to select the teams for participation in the All India tournaments.

The following coaches were appointed:

- | | |
|------------------------------|---------------------------|
| (i) Shri J. M. Ghorpade | Cricket and Tennis |
| (ii) Shri C. S. Dubey | Hockey (Men) |
| (iii) Shri Longi Fernandes | Hockey (Women) |
| (iv) Shri Yogesh S. Yadav | Kho-Kho (Men and Women) |

The Board conducted the All India Cricket tournament (Inter-University Semi Finals and All India Finals).

2. Students Welfare Board

Two meetings of the Students' Welfare Board were held on the 24th December, 1964 and the 27th March, 1965. The Board proposed to erect milk booths in the premises of the Polytechnic and the Halls of Residence for Women. The Board considered the letter of the Dy. Minister of Education, Ministry of Education, Government of India, regarding the organisation of a Labour and Social Service Camp and recommended that social service activities may be made a part of the N.C.C. Camps.

3. Publication Board

The Publication Board met on the 11th August, 1964. The Board considered and recommended the publication of "Aspect of Indian Dance with particular reference to Bharat Natyam" by Shrimati Mrunalini Sarabhai at an estimated cost of Rs. 5,000/-; two Ph.D. theses (1) Truth and Beauty: A Study in Co-relation by Dr. S. L. Bhyarappa (Philosophy) and (2) "Flora of

Pavagarh". The Board approved the programme of publications of nine works under Gaekwad Oriental Series and also the publication of Vagbhatalankar Balavadha of Marushundar Upadhyaya under Prachin Gurjar Granthmala.

4. Board of Extra Mural Studies

The Board of Extra Mural Studies met on the 20th August, 1964 and recommended a programme of extension lectures by the University teachers and outside experts. An amount of Rs. 8950/- was sanctioned for this purpose.

5. Library Committee

The Committee met on the 22nd March, 1965. It approved vendors for purchase of books, etc. for the year 1965-66 and the allocation of grants 1,07,000 for the purchase of books and periodicals on various subjects.

6. Building and Planning Committee and University Building Committee

A meeting of the University Building and Planning Committee was held on the 10th November, 1964. It recommended the programme of new construction works, and of ordinary and special repairs to the various buildings of the University to be carried out during the next year. A provision of Rs. 30,000/- was recommended in the next year's budget for water supply arrangements in the hostels area.

7. 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 it to the local as well as out-station students on request. The Bureau addressed 270 letters to different Universities and Educational Institutions in India, U.K., U.S.A. etc. and requested the said bodies to arrange to send the latest literature pertaining to the various courses run by them for guiding the students concerned. 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 572 persons who called at this Office personally during the period under report and replied 234 postal queries received from outstation students. The Bureau forwarded during the year twenty two applications for admissions to Universities and Institutions in U.K.; out of these ten applicants have already been granted admission, one is likely to be admitted; four applications have been rejected and the remaining seven applications are under consideration. The Secretary of the Bureau attended the first National Seminar held at Calcutta from the 8th to 13th February, 1965, and steps are being taken to develop the Bureau on the lines recommended at the Seminar.

8. Standing Committee on Equivalence of Examinations

The Committee met on the 10th April, 1964, the 10th July, 1964 and the 1st February, 1965. It considered in all 55 items regarding equivalence of various examinations and cases of eligibility of students concerned referred to it. It recommended recognition of a number of examinations of other Universities and bodies. It recommended the recognition of the B.Ed. and the M.Ed. examinations of the S.N.D.T. Women's University, Bombay on reciprocal basis. It also recommended that the School Certificate Examination of Cambridge University or General Certificate of Education (Ordinary level) of the Cambridge University or other recognised examining bodies in U.K. be recognised as equivalent to the corresponding Preparatory Examinations in Arts, Science and Commerce for purposes of admission to higher courses of studies in this University, subject to certain conditions.

9. Board of Visitors

Meetings of the Boards of Visitors for the Faculties of Education and Psychology, Commerce, Law and Social Work were held during the year. The recommendations and the reports of the meetings 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 Education and Psychology*: The Board met on the 22nd February, 1965 and recommended that (i) the new courses in M.Ed. in Curriculum be instituted, (ii) the proposal to add an optional group at M.A. in Psychology of Industrial Psychology, with emphasis on studies of industrial efficiency and human engineering, personnel selection and training marketing, advertising and consumer research, etc. be approved, (iii) additional posts be created as and when necessary, subject to financial provision being available, (iv) the possibility of adding equipments in the Science and Psychology Laboratories from the funds of the Centre for Advanced Study in Education be explored.

(2) *Faculty of Commerce*: The Board met on the 2nd March, 1965. It recommended that (i) the Post of Professor of Business Administration be advertised and filled as soon as possible; (ii) the courses at M.Com. be so revised so as to include more subjects under Business Administration such as Personnel Management; (iii) research work in the Faculty be encouraged; (iv) the Dean be requested to carefully watch the professional career and achievements of some first class or high second class M.Com. students with the intention of evaluating the usefulness of the training received by the students of the Faculty.

(3) *Faculty of Law*: The Board met on the 3rd October, 1964. It recommended that (i) a new building for the Library and the office of Faculty of Law be provided in the Fourth Five Year Plan; (ii) the teachers in the Faculty

be encouraged to do research work, (iii) the instruction in post-graduate courses be reviewed and admission be regulated and restricted according to the resources and personnel available, (iv) the present Library grant be substantially increased.

(4) *Faculty of Social Work*: The Board met on the 21st December, 1964. It recommended that (i) the income and expenditure per student for the Faculty of Social Work as well as for other Institutions teaching Social Work e.g. the Tata Institute of Social Sciences, the Delhi School of Social Work and the Kashi Vidyapeeth be worked out; (ii) figures and details of use of Library facilities by the staff and students in statistical form be given; (iii) a subjectwise classified list (with short summary) of the dissertations prepared by the students in part fulfilment of M.S.W. be prepared; (iv) a copy of each of the Faculty publications be sent to the members of the Board, (v) a 16 mm. projector and a Computing machine be purchased from Obsolescence Fund of the Faculty.

10. Committee to Select Wardens

The Committee held its meeting on the 20th March, 1965 and recommended continuation of 8 teachers as Wardens of different Halls and appointment of Shri C. J. Shah, as Warden of Dr. K. M. Munshi Hall till 30th April 1967.

11. Wardens' Committee

There were in all 5 meetings of the Wardens' Committee held during the year on the 18th March, 3rd July, 8th October, 8th December, 1964 and 22nd February, 1965. The allocation of seats for men and women students of the different institutions in the Halls of Residence were made. The revised Budget for the year 1964-65 and the budget for the year 1965-66 were prepared.

12. Advisory Committee for the Halls of Residence

The Committee met once during the year on the 24th March, 1965. It noted that the Diamond Jubilee and Memorial Trust had decided to construct two Halls of Residence for 150 Men and 100 Women students to commemorate the birth centenary of Maharaja Sir Sayajirao Gaekwad in the University Campus and the necessary land will be given by the University on lease to the Trust.

13. 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 regard-

ing 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 23rd January, 1965. It submitted to the Syndicate the revised estimates for the year 1964-65 and the estimates for the year 1965-66 after scrutinising various proposals received from the Faculties, Institutions and Offices of the University.

14. Investment Committee

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

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

The Committee met on the 17th April, 1964. It recommended the changes of Syllabus and Text-Books in (1) General English Paper V, (2) Hindi (Higher Level) Paper II—Section II Gujarati, Marathi and Sindhi, (3) Prep. Science—Physics Paper IV, (4) Prep. Commerce—Book-keeping Paper VI, (5) Prep. Arts—Commerce—Geography Paper VII, (6) Social Studies—Section II.

The Committee also recommended the appointments of Sub-committees for admission to the Preparatory Courses in Arts, Science and Commerce and the admission procedure for the year 1964-65.

16. Selection Committees

During the period from 1st April, 1964 to the 31st March, 1965 there were twenty four meetings. Selection Committees appointed under Section 48(2) of the Act and they recommended twenty one candidates for appointments to the posts of Professors and Readers in various Faculties and Institutions of the University. There were eighty nine meetings of the Standing Selection Committees for Junior Posts and fifteen meetings of the Standing Selection Committee for Class III posts and 216 and 66 candidates respectively were recommended by these committees for appointment to different posts in the University.

17. Shri Sayaji Sahityamala Publication Committee

The Committee met on the 7th August, 1964 and recommended “જાત-મંડળના વાઘેર” by Shri Kalyanray N. Joshi for publication. The Committee also approved the following works for publication:

1. ઉડાણનો તાર
2. પંચદશી તાત્પર્ય
3. ગુજરાત એક દર્શન

by Shri Chhotubhai Suthar

by Swami Shri Pranavatirth

by Shri Shiva Prasad Rajgor

The Committee recommended that all the booklets published under Shishujnanmala be sold reducing the price by Rs. 0-25 paise each, in order to make them popular and easily available to children.

18. Press Supervisory Committee

There were nine meetings of the Committee on the 16th April, 22nd June, 12th August, 18th September, 18th November and 16th December, 1964, 13th January, 16th February and 18th March, 1965. 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, equipment, etc.

19. Sheth Ujamshi Pitambardas Ayurvedic Research Committee

The meeting of the Special Committee was held on the 26th September, 1964 and the Committee recommended that the pay scale of the post of Statistician be upgraded to Rs. 250-20-500.

20. N.C.C. Senior Division Advisory Committee

The Committee met on the 30th July, 1964. It was decided that no leaving certificate for Inter-Faculty transfer or Inter-University transfer be issued by the Head of the Institution unless the student produces clearance certificate from the N.C.C. Unit concerned. The Committee suggested a new column to be inserted in the Identity card which would show the N.C.C. Unit in which the students are enrolled. It recommended that the Central Trophies be instituted for Inter-Unit competitions.

21. Advisory Committee for the Health Centre

The Committee met on the 27th June, 1964. It approved the appointment of a full time nurse.

22. Sir Sayajirao III Memorial Research Prize Fund Committee

The meeting of the Committee was held on the 3rd September, 1964. The Committee accepted the essay વૈજ્ઞાનિક દૃષ્ટિ (Scientific outlook) written by Professor K. N. Chokshi for the award of prize and also selected ગુજરાત રાજ્યમાં સ્થાનિક સંપત્તિ ઉપર આધારિત ઉદ્યોગો (Industries based on mineral resources in the Gujarat State) as a subject for the essay for the year 1964-65.

23. M. S. University Students Aid Fund Committee

The Committee met on the 3rd October, 1964. 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. 19,383-77 for tuition fees, examination fees, books, etc.

24. Deans' Meetings

Two meetings of the Deans of Faculties and Heads of Institutions were held on the 20th August, 1964 and 4th March, 1965.

At the first meeting the Committee recommended a change in the system of the Caution Money. At the second meeting it recommended that the following elucidation be printed below the University Crest along with the University song in the Prospectuses of the Faculties and Institutions: "The full-blown lotus growing out of the lake symbolises the emergence of mind and its triumph over matter. The flame rising from the centre of the lotus is the flame of human knowledge, spreading light and learning for the coming generations. The motto inscribed below the lotus defines the purpose and existence of life which is love of beauty, goodness and intellectual curiosity." It was also recommended to hold the seminar on Students Personnel Services in the University on the 17th March, 1965.

CHAPTER VI—RESEARCH WORK IN THE UNIVERSITY

During the year, post-graduate and research work was done in almost all faculties and institutions of the University. 265 students, who were registered for the Ph.D. degree in previous years, continued the research work on their theses. 35 new students (11 in Faculty of Arts, 12 in Faculty of Science, 1 in Faculty of Commerce, 1 in Faculty of Law, 2 in Faculty of Home Science, 4 in Faculty of Education and Psychology and 4 in Faculty of Medicine) were registered for the Ph.D. degree.

2. Research Schemes sponsored by the University

On the recommendations of the Council of Post-graduate Studies and Research, the University approved the continuation or implementation of the following research schemes. The expenditure on these schemes is borne by the University from its own funds. An amount of Rs. 70,000 was sanctioned by the University for this purpose during the year.

<i>Faculty/Department</i>	<i>Research Scheme</i>
Faculty of Arts	
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
Faculty of Science	
Botany	(i) Studies on the Isolation of suitable Algae for Sewage purification (ii) Study of the effect of some growth regulating substances on cotton, sorghum, wheat etc. (iii) Studies on the patterns of growth and cell division in suspension cultures derived from the roots of higher plants (iv) The cytology of certain monocotyledons, especially the general scripus, kyllinga anthurium and arisdema and a few important crop plants of Gujarat

<i>Faculty/Department</i>	<i>Research Scheme</i>
Chemistry	(i) Mesomorphism and Chemical constitution (ii) Metal Chelates of Oximes (iii) Synthesis of ion exchange compounds (iv) Studies in the synthesis of Furocoumarins
Microbiology	Studies on the Enzyme Induction and Reversible Mutation in Molds
Zoology	Studies on the salivary glands of the House Swift (Apus Affinis)
Biochemistry	Studies on Nicotinic Acid Metabolism in Fenugreek (Methi)
Geology	Geological Investigations of the marine cretaceous rocks (Baghbeds) of Lower Narmada River Valley

Faculty of Education and Psychology

Psychology	Living Conditions of the M. S. University of Baroda students
Education	A Research Project on a Linguistic Cultural Comparison of English and Gujarati
Educational Administration	A Survey and Evaluation of Administration of School Systems in India

Faculty of Medicine

Biochemistry	Inquiry into the investigations on the effect of different foods etc.
Medicine	Investigation of various Types of Nutritional anaemias in Humans and Animals
Pathology	Molluscan Semivivarium in the rabbits
Venereology	Scheme for providing grant for the Histopathology and Mycology Laboratory

Faculty of Technology and Engineering

Applied Mechanics	Swelling Pressure in Expansive Soils
Civil Engineering Department	(i) Comparison of flow patterns in semicircular and trapezoidal open channels (ii) Study of weirs with convex and concave upstream faces.

Faculty of Home Science

<i>Faculty/Department</i>	<i>Research Scheme</i>
Child Development	A Survey of Pre-School Institutions in Baroda

3. Research Schemes sponsored by outside agencies

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 Sponsoring Agency</i>
Faculty of Arts		
Agricultural Economics	Implementation of Tenancy Abolition —Emerging pattern of land rights and agricultural production	Planning Commission
Sociology	(i) Functional and Dysfunctional aspects of the working of the C.D.P. in Gujarat (ii) Saurashtra Community Development Research Project	Central Institute of Studies and Research, Government of India, Mussorie United States Educational Foundation in India, New Delhi

Faculty of Science

Biochemistry	(i) Studies on Pyridinonucleotide metabolism in normal tissues and crown gall tumor a <i>Aethaea rofes</i> (ii) Sewage purification (iii) Effect of Protein malnutrition and of different protein food on learning performance (iv) Ascorbic acid secretion during lactation	American PL/480 American PL/480 American PL/480 American PL/480
Botany	Flora of Gujarat State	Government of Gujarat, Industries Department

<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Sponsoring Agency</i>
Chemistry	(i) Separation of Alkaloids	Government of Gujarat, Industries Department
	(ii) Effect of structure on the transition temperature of mixed liquid crystals	Council of Scientific and Industrial Research, New Delhi
Microbiology	The mechanism of Carotene biosynthesis in mangoes and carrots	Scientific and Industrial Research, New Delhi
Physics	(i) Optical studies of etched surfaces on metal crystals	Council of Scientific and Industrial Research, New Delhi
	(ii) Optical and Related properties of luminiscent materials	
	(iii) Study of the molecular spectra of the fifth group diatomic molecules	Council of Scientific and Industrial Research, New Delhi
Zoology	(i) Histophysiological studies on the red and white muscles of fishes	Council of Scientific and Industrial Research, New Delhi
	(ii) Studies on the effect of induced atrophy on the red and white fibres of the pectoralis muscle and blood in the pigeon	U.S.A. Muscular Dystrophy Association
	(iii) Physiology of the Khapra beetle, <i>Trogoderma Granarium</i>	American PL/480
Faculty of Education and Psychology		
Psychology	A Study of Conformity and Deviation among the Adolescents from Socio-Psychological Stand point	National Council of Educational Research and Training, New Delhi
Education	Behaviour Problems of Normal School-going children ages 7, 8, 9, 10	University Grants Commission

Faculty of Medicine		
<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Sponsoring Agency</i>
Pathology	Immunochemical Study of experimentally produced amyloid	University Grants Commission
Faculty of Technology and Engineering		
Architecture	Socio Architectural Survey of existing towns in the region of Kutch	University Grants Commission
Faculty of Fine Arts		
Fine Arts	Survey of Indian Painting in the 20th Century	University Grants Commission
Faculty of Home Science		
Child Development	(i) A Study of Motor and Mental abilities of Indian Infants	University Grants Commission
	(ii) A Study of Caste and Cultural change in a Gujarat Village through an analysis of Child rearing practices	Planning Commission
Foods and Nutrition	(i) Effect of protein malnutrition and of different protein foods of learning performance and brain biochemistry in the Rat	American PL/480
	(ii) Ascorbic acid metabolism during lactation	American PL/480
	(iii) Effect of School lunch programme on growth rate, physical activity and psychological performance of school going children in a village	Ford Foundation and Applied Nutrition Programme
	(iv) Studies on Hybrids of Bajra	Indian Council of Agricultural Research, New Delhi
Faculty of Social Work		
Social Work	A Study of the conflicts of the young adult students in relation to parental	Department of Health, Education

<i>Faculty/Department</i>	<i>Research Scheme</i>	<i>Name of the Sponsoring Agency</i>
	norms and behavioural manifestation of these	and Welfare, Welfare Administration, Government of United States, Washington D.C.
College of Indian Music, Dance and Dramatics		
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:

Archaeology

<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
1. Dr. R. N. Mehta	(i) Excavation at Nagara, Cambay
2. Dr. A. C. Patel	(ii) Explorations at Dholka and Sabarmati
3. Shri B. Suryavanshi	Working on the Pleistocene Chronology of Gujarat
4. Dr. S. N. Chowdhary	A Survey of the Social Life and Culture of the Ahirs
5. Shri K. T. M. Hegde	Excavations at Nagara, Cambay
5. Dr. (Smt.) D. R. Shah	Quantitative Estimation of Humus in the different layers of the archaeological mound excavated by the Department at Nagara, Cambay
	Systematic study of the following material was carried out from excavated sites:
	(1) Shells from Chandoli
	(2) Bones from Kaundinyapura
	(3) Bones from Atranjikhera
	(4) Bones from Nagara (Mound I)
	(5) Shells from Nagara (Mound I)
7. Dr. Y. A. Raikar	Hemadpanti style of temple architecture

Agricultural Economics	
<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
8. Shri R. S. Mehta	Finance, Farm Resources and Organisation—An analytical study of decade of the impact of reorganised credit on agriculture with reference to a district in Gujarat
Economics	
9. Shri N. M. Pandya	Changing Indian Agrarian pattern with reference to Gujarat
10. Shri B. B. Patel	The Urban growth and agricultural development
11. Professor I. S. Gulati	(i) Report on Tax Reform in Trinidad and Tobago
	(ii) Techniques of Revenue Forecasting for the United Nations Workshop
12. Dr. L. S. Venkatraman	The Theory of General Economics Equilibrium
13. Dr. J. C. Sandesara	Size, Technology and Economics—A Study of Indian Industry
14. Dr. V. N. Kothari	Some aspects of Economics of Education
Sanskrit	
15. Dr. A. N. Jani	Preparation of the critical edition of the Vidyadhari, the earliest commentary on the Naisadhiyacarita of Sriharsa
16. Dr. S. G. Kantawala	Linguistic aspect of Matsyapurana
17. Dr. (Kum.) S. H. Trivedi	Contribution of the Puranas to Dharmasastra
Hindi	
18. Professor C. P. Singh	Madhyakalin Natya Parampara Tatha Rang Manch Ki Mimansa
19. Dr. M. G. Chaturvedi	Gujarat Ke Hindi Kavyaparam Para Tatha Acharya Kavi Govind Gillabhai
Gujarati	
20. Shri H. M. Trivedi	Professor B. K. Thakor—his Life and Works
21. Shri N. C. Desai	A Critical Edition of Sadavant Savlinga Chopai in Old Gujarati

Philosophy

<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
22. Dr. A. G. Javadekar	Axiology and Methodology

Sociology

23. Kumari B. S. Desai	Migration and Social mobility in a Rural Community in Gujarat—India under impact of Capitalisation and Democracy
24. Dr. T. N. Valunjkar	Revised the Ph.D. Thesis entitled 'Social Organisation and Migration Pattern of a Village Community' for Publication

History

25. Dr. V. K. Chavda	Preparation of a Selected Bibliography for the History of Gujarat under the East India Company
26. Shri M. M. Shah	Relation of the Peshwa and the Gaekwads: 1707 to 1830

Political Science

27. Shri K. S. Desai	Intergovernmental Relations in the field of Agriculture: India and U.S.A.
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Faculty of Science**Bio-chemistry**

1. Professor C. V. Ramkrishnan	(i) Studies on Mold Metabolism (ii) Bio-Chemical Characterisation of different Plant and Animal Tissue in Vitro (iii) Brain Bio-Chemistry
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Botany

2. Professor A. R. Chavan	Agrostology, Ecology and Floristics
3. Dr. C. H. Pathak	Agronomy, Physiology and Cytogenetics
4. Dr. A. R. Mehta	Grass systematics, Morphogenesis and Physiology
5. Shri L. K. Gaekwad	Palynology
6. Shri Y. S. Deshmukh	Embryology and Floral Anatomy
7. Shri S. N. Padate	Floristics and Taxonomy
8. Shri S. D. Subnis	Floristics and Taxonomy
9. Shri R. P. Bhatt	Anatomy and Cytology

Geography

<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
10. Professor (Smt.) V. A. Janaki	(i) Atlas of Gujarat (ii) The Functional Classification of Towns in Gujarat

Microbiology

11. Dr. V. V. Modi	(i) Biotin and fatty acid metabolism in mold (ii) Riboflavin metabolism in yeast (iii) Nitrogen fixation by bacteria
12. Dr. V. K. Shah	Acid metabolism in Molds

Physics

13. Professor N. S. Pandya	Solid State Physics
14. Dr. R. V. Joshi	Solid State Physics
15. Dr. M. M. Patel	Rotation Vibration Analysis of Spectra
16. Dr. J. R. Pandya	Optical study of crystal surfaces
17. Shri V. R. Mathrubhuteshwaran	Structure Analysis by X-Rays
18. Dr. S. K. Shah	Theoretical Nuclear Physics

Statistics

19. Professor N. M. Bhatt	(i) Studies on transformations of normal variate (ii) Some problems in Mathematical Statistics
20. Smt. Indira Bhanot	(i) Statistical Summaries of Medical Inspection Reports (ii) Studies on Wastage and Stagnation in Indian Universities
21. Dr. M. S. Patel	Problems in Design of Experiments

Zoology

22. Professor J. C. George	(i) Developmental Physiology (ii) Structure and Physiology of muscle (iii) Comparative Physiology (iv) Neuroendocrinology (v) Reproduction Physiology
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<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
23. Dr. R. V. Shah	(i) Reptilian Anatomy and Physiology (ii) Vertebrate embryology
24. Dr. R. M. Naik	(i) Anatomy, Physiology and Ecology of birds (ii) Animal Behaviour
Chemistry	
25. Professor S. M. Sethna	Studies in coumarins, chromones and flavones
26. Dr. J. S. Dave	Liquid Crystals
27. Dr. S. L. Bafna	Studies on Ion-exchange
28. Dr. K. N. Trivedi	Studies in Coumarins
Mathematics	
29. Professor U. N. Singh	(i) Topological Vector Spaces (ii) Branch Algebras (iii) Harmonic Analysis
30. Shri B. S. Yadav	Absolute Convergence of Fourier Series
31. Shri O. P. Goyal	Problems in the Theory of Trigonometric Series
32. Shri V. M. Shah	Summability Problems in the theory of Trigonometric series
33. Shri G. V. Shah	Functional Analysis
34. Shri S. R. Agrawal	Fourier Analysis in Groups

Faculty of Education and Psychology

Psychology

1. Professor L. J. Bhatt
Milieu Influences in Pupils concept of Misconduct
2. Dr. (Kumari) P. Pasricha
Adjustment Inventory for College Students (study of adjustment problems of students and plotting of Normal Profiles for comparative study of problems of counselling cases)

Centre of Advanced Study in Education

3. Dr. A. S. Patel
(i) Rational, Construction and Try-out of Scales to assess some personality traits.
I. Extrovert-Introvert Scale

<i>Name of the Teacher and Department</i>	<i>Subject of Research</i>
	(ii) Conservative-Reformist Scale
	(iii) Influence of Motivation, Orientation and Anxiety on Learning and Retention
	(iv) Comparative Study of Adjustment and Character Traits of Delinquent and Non-delinquent children

Educational Administration

4. Dr. D. M. Desai
Problems of Administration and Control of Secondary Education in India—Normative Study—1964-65

Faculty of Home Science

Education and Extension

1. Dr. Mattie Pattison
Annotated bibliography of research done in India related to Home Science
2. Smt. Arvinda Chandra
Professional Problems of Home Science teachers in degree—granting Home Science Colleges of India
3. Smt. Dhruti Chaudhari
(i) Opinion of the graduates of the Faculty of Home Science, M. S. University of Baroda about the adequacy of curriculum they have had in relation to their present occupation
(ii) Survey of the leisure time activities of adult women of some selected communities of Baroda City
(iii) Reasons given by adult women for attending adult classes conducted in the year 1964-65
4. Smt. Arvinda Chandra and Smt. Dhruti Chaudhari
Survey of the objectives of the Home Science College in India
5. Kumari Anupama Jaituni
Survey of the text books used by the degree granting Home Science Colleges in India

Clothing and Textiles

6. Miss E. Tarpley,
Kumari Minaxi Dighe and
Kumari Sudha Jaradi
Development of testing techniques that will produce repeatable result for predicting the performance of textile fabrics using low cost equipment

Name of the Teacher and Department	Subject of Research
7. Kumari Saroj Rana, Kumari Saroj Patel and Kumari Savitri Pandit	Body measurements of University women students for garment and pattern construction in India
8. Miss E. Tarpley, Kumari Savitri Pandit, Smt. S. Shinde, Kumari Minaxi Dighe, Kumari Sudha Jaradi and Kumari Saroj Patel	A text book of Clothing and Textiles
9. Kumari Elizebeth Tarpley, and Kumari Savitri Pandit	A Study of the Indian-made Sewing Machines

Sanskrit Mahavidyalaya

1. Shri H. C. Mehta (i) Kavya Mimansa of Rajashekhar with translation, introduction and critical notes in Gujarati
2. Shri S. V. Bhattbhatt (ii) Critical Study of Jagannath Arthasangra of Laugakshi Bhaskar with commentary and introduction

5. Examination Reform and Research Unit

During the year the Examination Reform and Research Unit did further work on standardization of a Scholastic Aptitude Test for admission to Preparatory Courses in Science. On the basis of statistical analysis of the try out data of the tests administered to Preparatory Science Students in 1963-64, the composite Scholastic Aptitude Test was prepared.

The Scholastic Aptitude Test (SAT) so continued, is a multiple choice test divided into three components—(i) English Test, (ii) Numerical Ability Test and (iii) Abstract Reasoning Test.

This SAT was administered to the students admitted to Preparatory Course in Science during June, 1964. Five hundred students continued a sample for statistical analysis. Most of the statistical measures have been computed. For validity, prediction etc., the Unit will take into consideration the final examination results of the Preparatory students who served as a sample for the project.

CHAPTER VII—LECTURES AND DEPUTATIONS

1. University Extension and Other Lectures

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

(1) Maharaja Sayajirao Memorial Lectures

Name of the Lecturer	Date	Subject
1. Dr. S. Husain Zaheer, Director General, Council of Scientific and Indus- trial Research and Ex- officio Secretary to the Government of India, Ministry of Education, New Delhi	23-2-1965 24-2-1965	Recent Trends in the work of the Council of Scientific and Industrial Research Importance of Ocean Research to India

(2) Lectures under Extra Mural Scheme of the University and/or University Grants Commission's Scheme of Exchange of Professors

Faculty of Arts

1. Dr. K. D. Bajpai, Head, Department of Arch- aeology, Saugar Univer- sity, Saugar	17-8-1964	Excavations at Eran
2. Professor N. V. Joshi Head, Department of Philosophy, Ram Narain Ruia College, Bombay	28-1-1965 29-1-1965 30-1-1965	Social and Political Philosophy (3 Lectures for Philosophy De- partment under the University Grants Commission's Scheme of exchange of teachers)
3. Professor Upendra C. Pandya, Dharmendrasinhji College, Rajkot	1-2-1965 2-2-1965	सरस्वतीचंद्रमां राष्ट्रीयतानी भावना काव्यमीमांसा—१७ क अच्छी तुलना
4. Professor Devendra Nath Sharma, Head, Depart- ment of Hindi, Patna University, Patna	2-3-1965 3-3-1965	Some problems of the Alankar Shastra

Sr. No.	Name of the Lecturer	Date	Subject
5.	Professor G. C. Jhala, St. Xavier's College, Bombay	6-2-1965	Bhavbhuti and His contemporary detractors
6.	Shri S. M. Dudani, I.A.S., Secretary to Government of Gujarat, Revenue and Agriculture Department, Ahmedabad	10-2-1965 11-2-1965	Union State Relations in the Field of Agriculture
7.	Shri H. M. Patel, Chair- man, Gujarat Electricity Board, President, Charotar Vidya Mandal, Vallabh Vidyanagar	15-2-1965	Working of the Cabinet System
8.	Professor K. J. Shah, Karnatak College, Dharwar	16-2-1965	Pleas for Philosophy
9.	Dr. G. B. Gramopadhye, Bombay	1-3-1965 2-3-1965 3-3-1965	Philosophy

Faculty of Science

Biochemistry

1.	Professor A. P. Kenny, W.H.O. Visiting Professor at Medical College, Baroda	10-9-1964	Clinical Bio-chemistry
2.	Professor E.R.B. Shanmugasundaram, Biochemical Laboratory, University of Madras	20-1-1965	Proteases
3.	Professor J. V. Bhatt, Indian Institute of Science, Bangalore	8-3-1965	Soil Microbiology
4.	Professor J. Ganguly, Indian Institute of Science, Bangalore	8-3-1965	Vitamin A Metabolism
5.	Professor P. M. Bhargava, Regional Research, Laboratory, Hyderabad-9	8-3-1965 to 14-3-1965	Protein Chemistry and Metabolism

Sr. No.	Name of the Lecturer	Date	Subject
Botany			
6.	Professor Chinnaveeraiah, Karnatak University, Dharwar	12-10-1964	Illustrated Account of the Inter- national Genetical Congress, Montreal, Canada
7.	Dr. V. P. Bhide, Agricultural University, Poona	15-12-1964	Nitrogen fixing Bacteria
8.	Dr. Issac, Swansea University, Wales, U.K.	16-12-1964	Vascular Wilts with special re- ference to Verticillium
9.	Dr. John Paul, University of Glasgow, U.K.	26-1-1965	Prominent tissue culturist demon- strated a hanging drop culture method
10.	Dr. Katshuta, University of Tokyo, Japan	30-1-1965	Cell Division
Chemistry			
11.	Dr. Tobias, Professor of Inorganic Chemistry, University of Minnesota, U.S.A.	3-7-1964	Raman, Infra Red and N. M. R. Spectroscopic studies on Organo- tin compounds
12.	Professor Kulkarni Jatkar, Retired Professor of Chemistry, Poona University	8-7-1964	Molecular Structure
13.	Professor R. D. Desai, Principal, M. G. Science Institute, Ahmedabad	17-9-1964	Reactive Dyes
14.	Dr. A. M. Trivedi, School of Sciences, Gujarat University	17-9-1964	Formation of Usa (Soda) de- posits in Alkaline Soils
15.	Professor R. D. Patel, Head, Chemistry Depart- ment, Sardar Vallabhbhai Vidyapeeth	17-9-1964	High Polymer Solutions

<i>Sr.No.</i>	<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
16.	Professor B. C. Haldar, Institute of Science, Bombay	17-9-1964	Isotope exchange reaction between acetyl chloride and some soluble and insoluble chlorides
17.	Dr. V. M. Thakor, Chemistry Department, Gujarat College, Ahmedabad	30-9-1964	Studies in coumarins
18.	Professor S. S. Deshpande, Emeritus Professor, Holkar Science College, Indore	10-11-1964	Indian Essential Oils and their Terpenes
19.	Dr. R. N. Chakravarti, Professor of Chemistry, School of Tropical Medicine, Calcutta	28-11-1964 29-11-1964	Effects of Substituents on the course of Dieckmann Cyclisation Researches leading to the de- velopment of Indian Dioscorea Industry

Mathematics

20.	Professor Mickel, Chicago State University, U.S.A.	10-7-1964	Theory of Measure
21.	Professor Niemann, and Professor Bosely, U S.A.	21-7-1964	Teaching of Elementary Geometry

Geology

22.	Dr. S. K. Agrawal, Reader in Palaeontology, University of Rajasthan, Udaipur	21-9-1964	Methods and Techniques of Palaeontological Research
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Microbiology

23.	Professor A. P. Kenny, W.H.O. Visiting Professor at Medical College, Baroda	10-9-1964	Colorimetric determination of ionised calcium in serum
24.	Dr. P. T. Acharya, Department of Pathology, Medical College, Baroda	28-9-1964	Use of Serum agglutination tests in diagnostic bacteriology and Immunology

<i>Sr. No.</i>	<i>Name of the Lecturer</i>	<i>Date</i>	<i>Subject</i>
25.	Dr. V. P. Bhide, Bacteriologist, Agricultural College, Poona	14-12-1964 15-12-1964 16-12-1964	Soil Microbiology
26.	Professor G. Montgomery, W.H.O. Visiting Professor, Medical College, Baroda	18-12-1964	Modification of functions of reti- culoendothelial system by clinical agents
27.	Dr. S. S. Rao, Head, Immunology Division, Haffkins Institute, Bombay	18-1-1965 19-1-1965 20-1-1965	Immunology, Immuno-chemistry and immuno-pathology
28.	Dr. M. K. Subramaniam, Head, Department of Cytogenetics Indian Institute of Science, Bangalore	25-1-1965 to 30-1-1965	Cytology
29.	Dr. M.R.S. Iyengar, Chief, Antibiotic Plant and Microbiological Research Laboratory, Alembic Chemical Works, Baroda	2-2-1965	Mycology
Physics			
30.	Professor P. G. Deo, Head of Department of Applied Sciences, Punjab Engineering College, Punjab	1-7-1964	Defects—Solid State
31.	Professor Phillips Jastram, Professor of Physics, Ohio University, U.S.A.	28-7-1964	The four forces of nature
32.	Dr. Y. G. Naik, Gujarat University, Ahmedabad	11-9-1964	Thin Metallic Films
33.	Dr. K. R. Dixit, Indian Institute of Technology, Bombay	15-12-1964	Life on other Worlds
34.	Dr. V. G. Bhide, Indian Institute of Science, Bombay	26-2-1965	Mossbauer effect

Sr. No.	Name of the Lecturer	Date	Subject
Statistics			
35.	Shri S. R. Thakore, Computer Section, Physical Research Laboratory, Ahmedabad	22-9-1964	Programming on Electronic Computers
36.	Shri D. C. Mehta, Officer-in-Charge, Statistics Division, Public Health Laboratory, Ahmedabad	21-12-1964 22-12-1964	Demography and Vital Statistics
37.	Professor A. S. Patel, Co-ordinator, CASE, M. S. University, Baroda	8-2-1965	Application of Statistics on Social Sciences
38.	Professor M. C. Chakravarty, Head, Department of Statistics, Bombay University, Bombay	27-2-1965	Linear Programming
Zoology			
39.	Dr. A. J. Berger, Full Bright Professor, M. S. University, Baroda	11-3-1965	Breeding Biology of some American Birds

Faculty of Education and Psychology

1.	Rev. Professor J. Filella S. J., M.A., Ph.D. Professor of Psychology, St. X'avier College, Bombay	18-1-1965 to 25-1-1965	Psychology
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Faculty of Technology and Engineering

1.	Dr. B. S. Cooper, Engineering Consultant, Bombay	22-1-1965 23-1-1965	Production Engineering and its application to the Indian Automobile Industry
2.	Mr. Charles Correa, Architect, Bombay	16-1-1965	Modern Architecture and Criticism
3.	Shri S. B. Brahme, Landscape Arch. Architect, C/o. Gokhale Institute of Research, Poona	17-1-1965 4-2-1965	Landscape Architecture

Sr. No.	Name of the Lecturer	Date	Subject
4.	Shri L. M. Contractor, Municipal Engineer, Baroda Borough Municipality, Baroda	23-2-1965	Traffic Engineering and Traffic problems of the Baroda City increasing the capacity etc.
5.	Shri S. C. Desai, C.W.P.R.S., Poona	26-2-1965	Design of Overflow spillways and energy dissipation devices
6.	Dr. R. W. Vakil, Structural Engineer, School of Architecture, Ahmedabad	27-2-1965 28-2-1965	Civil Engineering and Architectural Practice
7.	Shri H. P. Oza, Director, Engineering Research Institute, Baroda	1-3-1965 2-3-1965	Some cases of Foundation Failures or uneven settlement and slip failures
8.	Professor I. J. Nagrah, Professor of Electrical Engineering, Birla Engineering, College, Pilani	2-3-1965 3-3-1965 4-3-1965 5-3-1965	Principles of Electro-magnetic energy conversion Application of Relays to transmission and Distribution systems
9.	Shri M. T. Amin, Highway Engineers, Ganpule Building, Baroda	3-3-1965 4-3-1965	Architecture and Building Construction
10.	Shri G. N. Desai, Head, Applied Mechanics Department, S. V. Regional College of Engineering, Surat	4-3-1965 5-3-1965	Choice of Structural materials Requirements of a Structure
11.	Shri S. J. Arciwala, V.J.T.I., Bombay	6-3-1965	Sewage Treatment Works
12.	Shri S. K. Chatterjee, Assistant Professor, Indian Institute of Science, Bangalore	8-3-1965 9-3-1965	Fundamental Principles of Master Fundamental Principles of Microwave Electronics

Faculty of Fine Arts

1.	Dr. Mulk Raj Anand Tagore, Professor, Punjab University, Chandigarh	7-9-1964	Seven little known birds or Inner eye or how to eat a Picture
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Sr. No.	Name of the Lecturer	Date	Subject
2.	Mr. Isamu Akino, Well-known Japanese Origum	28-9-1964	Paper Fold Sculpture
3.	Shri Haku Shah, Research Scholar, Gujarat University Library, Ahmedabad	13-3-1965	Folk Art

Faculty of Home Science

1.	Miss Maher Contractor, Ahmedabad	22-8-1964	Puppetry in Education
2.	Dr. E.R.B. Shanmuga- sundaram, Madras	26-9-1964	Biosynthesis of Riboflavin
3.	Mr. M. R. Pai, Bombay	27-9-1964	Techniques of Writing Journal- istic trends and Techniques
4.	Professor Kalyan Bagchi, Calcutta	2-10-1964 3-10-1964	Worm Infestation
5.	Mr. S. K. Mitra, Delhi	8-2-1965 to 13-2-1965	Position of Psychological and Social Research in India with reference to Child Development Projective Techniques Administration and use of Tests with Children
6.	Mr. K. K. Karia, Bombay	10-2-1965	Cost of Planning for Interiors Client dealings and problems of Furniture Manufacturers
7.	Dr. Murrey Straus, Bombay	12-3-1965	Laboratory Techniques in the study of the Family

Faculty of Social Work

1.	Shri P. R. Chauhan, Director, Social Welfare Department, Government of Gujarat, Ahmedabad	4-9-1964	Social Welfare Services in Gujarat State
2.	Shri P. Kodanda Rao, Bangalore	21-12-1964	University Education

Sr. No.	Name of the Lecturer	Date	Subject
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Sanskrit Mahavidyalaya

1.	Shri Chimanlal J. Pandya, Vyakaranacharya, Adhyapak Sanskrit Patha Shala, Bramchhari Wadi, Ahmedabad	11-1-1965	Vyaparmukhyavisheshyak Shabdabodha
2.	Shri Kalyan Datta Sharma, Supervisor, Astronomical Observatory, Jaipur	25-1-1965	Jyotishastre Yantrashastra Upayogita
3.	Shri R. V. Kaundinya, Principal, Jamnagar Sanskrit Mahavidyalaya, Jamnagar	5-2-1965	Alankarshastre Rasagangadharasya Vaishistyam

2. Deputation to Conferences

The following members of the University staff were deputed to attend the Conferences, Seminars etc. shown against their names as delegates of the University during the period from the 1st April, 1964 to the 31st March, 1965.

Name of the members of the Staff	Name, Place and Dates of the Conference, Seminars etc.
Professor P. J. Madan Professor S. M. Sen (Faculty of Technology and Engineering)	Symposium on " Science and the Nation during III Five Year Plan " in March-April, 1964 at Delhi
Professor N. S. Pandya (Faculty of Science)	A Symposium on Solid State Physics held in the first week of April, 1964 at New Delhi
Shri H. R. Chaturvedi (Faculty of Social Work)	Seminar on Social Policy Instruction in School of Social Work on the 13th and 14th April, 1964 at Bombay
Dr. C. P. Shukla (Smt. Hansa Mehta Library)	Fourteenth All India Library Conference and Seminar on Model Public Libraries held from the 11th to 15th April, 1964 at the Selha Library, Patna
Shri V. B. Shah (Faculty of Social Work)	Seminar in Medical Social Work with Special Reference to ' Rehabilitation ' of the Ortho- paedically handicapped for Trained Social Workers from the 4th to the 9th May, 1964 at Bombay

*Name of the members
of the Staff*

Kumari I. M. Patel
Shri S. K. Majmudar
(Faculty of Social Work)

Professor C. H. Khadilkar
(Polytechnic)

Professor U. N. Singh
Professor N. M. Bhatt
Shrimati Indira Bhanot
Shri Raojibhai C. Patel
(Faculty of Science)
Shri C. C. Shah
(Faculty of Technology and
Engineering)

Shrimati V. V. Pawar
Shri S. H. Shah
(S.E.O. Training Centre)
Professor R. C. Mehta
(College of Indian Music,
Dance and Dramatics)

Dr. Y. J. Tripathi
(Faculty of Arts)

Dr. A. G. Javadekar
(Faculty of Arts)

Shri K. P. Desai
(Faculty of Technology and
Engineering)

Kumari Pampa I. Parikh
(S.E.O. Training Centre)
Kumari Savitri Pandit
Shrimati Shashikala Shinde
Shrimati Anjali Mehta
(Faculty of Home Science)

*Name, Place and Dates of the
Conference, Seminars etc.*

Seminar on " Field Work in Social Work
Education " sponsored by the Association of
Schools of Social Work in India, Waltair from
the 11th May to 17th May, 1964

Congress of the International Association of
water works at Stockholm and Visit to impor-
tant Centres of Public Health Engineering in
foreign countries from the 15th June to the
10th July, 1964

First All Gujarat Mathematics Conference,
on the 22nd and 23rd August, 1964 at Bhavnagar

Workshop on Revitalisation of training pro-
gramme from the 5th to 11th October, 1964 at
Udaipur

5th All India Music Teachers Conference from
the 8th to 11th October, 1964 at Jaipur

Seventh All India Writers' Conference of
P.E.N. All India Centre from the 9th to 12th
October, 1964 at Lucknow

Akhil Bharatiya Darshan Parishad from the
15th to 18th October, 1964 at Rajasthan Uni-
versity, Jaipur

13th Town and Country Planning Seminar
from the 17th to the 21st October, 1964 at
Ahmedabad

7th Biennial Conference of the Home Science
Association of India, from the 19th to the 22nd
October, 1964 at Bombay

*Name of the members
of the Staff*

Dr. R. N. Mehta
(Faculty of Arts)

Shri I. A. Dave
(Faculty of Arts)

Professor (Shrimati) Amita
Verma

Shrimati Arvinda Chandra

Kumari Anupama Jaituni

Kumari Nalini Ogale

Kumari Freny Debu

Kumari Benlah Ravoori

Shrimati Dhruti Chowdhari
(Faculty of Home Science)

Professor C. H. Khadilkar
Shri M. R. Thakkar
(Faculty of Technology and
Engineering)

Professor L. J. Bhatt
Dr. H. J. X. Fernandes
(Faculty of Education and
Psychology)

Dr. S. C. Misra
(Faculty of Arts)

Dr. T. V. Patel
Dr. M. A. Patel
Dr. S. H. Shah
Dr. B. S. Verma
(Faculty of Medicine)

Professor O. H. Patel
(Faculty of Technology and
Engineering)

Professor S. S. Merh
(Faculty of Science)

Shri S. D. Desai
(Faculty of Technology and
Engineering)

*Name, Place and Dates of the
Conference, Seminars etc.*

Camp on Indian Paintings from the 19th to
the 31st October, 1964 at Banaras

17th Conference of " Gujarati Adhyapak
Sangh " on the 22nd and 23rd October, 1964 at
Talod

Home Science Curriculum Seminar from the
22nd to the 24th October, 1964 at Bombay

Symposium at the Central Public Health
Engineering Institute from the 28th to the
31st October, 1964 at Nagpur

All India Educational and Vocational Guidance
Association—Annual Conference from the 5th
to 7th November, 1964 at Shantiniketan

Seminar at the Department of History, Uni-
versity of Delhi, from the 11th to the 16th
November, 1964 at Delhi

Medical Council of India Conference on
Medical Education from the 23rd to the 27th
November, 1964 at New Delhi

28th Annual Session of Indian Road Congress
from the 28th November to 7th December,
1964 at Jaipur

International Geological Congress, from the
14th to the 22nd December, 1964 at New Delhi

International Mineralogical Congress, from the
14th to the 22nd December, 1964 at Delhi

<i>Name of the members of the Staff</i>	<i>Name, Place and Dates of the Conference, Seminars etc.</i>
Shri N. B. Chhadua (Faculty of Technology and Engineering)	8th Convention of National Association of Students of Architecture from the 17th to the 21st December, 1964 at New Delhi
Professor N. Y. Hiriyur (Faculty of Technology and Engineering)	Symposium on Puzzolanas—their survey manufacture and utilization from the 18th to the 20th December, 1964 at New Delhi
Shrimati Kusum Pandya (Faculty of Home Science)	2nd Annual Convention of the National Parent Teacher Association of India, from the 18th to the 21st December, 1964 at Hyderabad
Dr. O. D. Gulati (Faculty of Medicine)	Annual Conference of the Association of Physiologists and Pharmacologists, from the 23rd to the 26th December, 1964 at Bombay
Professor G. G. Dadlani (Faculty of Social Work)	Seminars of the Association of School of Social Work, from the 23rd to the 28th December, 1964 at Varanasi
Shri B. L. Shanbhogue (Oriental Institute)	All India Educational Conference, from the 27th to the 31st December, 1964 at Indore
Dr. B. P. Lulla (Faculty of Education and Psychology)	
Professor A. R. Chavan Professor N. M. Bhatt Dr. J. S. Dave Dr. M. S. Patel (Faculty of Science) Dr. A. S. Patel (Faculty of Education and Psychology)	Indian Science Congress, from the 31st December, 1964 to the 6th January, 1965 at Calcutta
Shri M. L. Rehman (Faculty of Arts)	All India Islamic Studies Conference Fourth Session, from the 25th to the 27th December, 1964 at the Osmania University, Hyderabad
Professor C. V. Ramkrishnan (Faculty of Science) Dr. A. M. Talati (Faculty of Technology and Engineering)	Indian Chemical Society Annual Convention, from the 26th to the 29th December, 1964 at Allahabad

<i>Name of the members of the Staff</i>	<i>Name, Place and Dates of the Conference, Seminars etc.</i>
Dr. S. C. Misra (Faculty of Arts)	Indian History Congress, from the 27th to the 29th December, 1964 at Ranchi (Bihar)
Professor U. N. Singh (Faculty of Science)	30th Annual Conference of the Indian Mathematical Society, from the 27th to the 29th December, 1964 at Dharwar
Professor (Mrs.) Amita Verma (Faculty of Home Science)	39th Session of the All India Educational Conference, from the 27th to the 31st December, 1964 at Indore
Shri C. K. Sheshadri (Faculty of Arts)	All India English Teachers' Conference, from the 28th to the 30th December, 1964 at Aligarh.
Professor V. Y. Kantak (Faculty of Arts)	
Dr. M. M. Patel (Faculty of Science)	Eighth Annual Symposium in Spectroscopy on the 30th and 31st December, 1964 at Calcutta.
Shri J. J. Patel (Faculty of Education and Psychology)	All India Science Teachers Conference, from the 31st December, 1964 to the 2nd January, 1965 at Nagpur
Dr. H. C. Srivastava (Faculty of Medicine)	13th Annual Conference of the Anatomical Society of India, from the 30th December, 1964 to the 1st January, 1965 at Nagpur
Dr. B. G. Desai (General Education Department)	The Indian Philosophical Congress, Madras
Professor B. J. Sandesara Dr. U. P. Shah (Oriental Institute)	All India Oriental Conference in December, 1964 at Gauhati
Dr. R. N. Mehta (Faculty of Arts)	Symposium on Recent Archaeological Discoveries, in December, 1964 at Patna
Dr. H. B. Desai (Faculty of Commerce)	XVIII Session of the All India Commerce Conference, from the 1st to the 4th January, 1965 at Poona
Shri I. P. Vyas (Faculty of Commerce) Shri M. D. Pandya Shri R. K. Parmoo (Faculty of Fine Arts)	India Committee of Management Development Conference, 2nd January, 1965 at Poona Artists Conference, from the 12th to the 14th January, 1965 at Hyderabad

<i>Name of the members of the Staff</i>	<i>Name, Place and Dates of the Conference, Seminars etc.</i>
Professor C. H. Khadilkar (Polytechnic)	24th Annual Conference of the A.P.T.I. (I), from the 1st to the 4th February, 1965 at Jamshedpur
Professor N. S. Pandya (Faculty of Science)	Nuclear Physics and Solid State Physics Symposium, from the 8th to the 12th February, 1965 at Calcutta
Shri G. G. Parmar (Asstt. Registrar & Secretary, Students' Advisory Bureau)	Seminar of the Students' Advisory Bureaux, from the 8th to the 13th February, 1965 at Calcutta
Professor M. B. Achwal Shri S. L. Patel (Faculty of Technology and Engineering)	Seminar on "the Architect and the Community", from the 14th to the 20th February, 1965 at New Delhi
Dr. C. H. Pathak (Faculty of Science)	Symposium on "The impact of Mancelism on Agriculture, Biology and Medicine, from 15th to the 20th February, 1965 at New Delhi
Professor O. H. Patel Shri J. G. Advani (Faculty of Technology and Engineering)	45th Annual Session of Institution of Engineering (India), from the 19th to the 25th February, 1965 at Lucknow
Shri M. K. Bramabhatt (Sheth U.P.A.R. Unit)	Mehsana District Vaidya Sammelan on the 14th March, 1965 at Unjha

3. U.G.C. Travel Grants

The University Grants Commission have allocated an amount of Rs. 8,000 to this University for purposes of deputing teachers, research scholars and technical staff of the University for research, higher training, acquisition of technical knowledge at various research centres, laboratories, Centres, Universities etc. The University awarded the travel grants to the teachers and scholars as shown below.

<i>Sr. No.</i>	<i>Name and Designation of the person</i>	<i>Place and purpose of the award</i>	<i>Number of Days</i>
1.	Dr. A. N. Jani, Reader and Head, Sanskrit Department	Faculty of Art To consult manuscripts at the B. J. Institute of Learning and Research, Ahmedabad	30

<i>Sr. No.</i>	<i>Name and Designation of the person</i>	<i>Place and purpose of the award</i>	<i>Number of Days</i>
2.	Shri K. S. Desai, Reader in Political Science	To study the problem of Federalism and Industrial Development at the Ministry of Industry, Government of India, New Delhi	15
3.	Dr. V. K. Chavda, Lecturer in History	To work on original material at the National Archives, New Delhi	13
4.	Shri B. S. Suryavanshi, Lecturer in Ancient Indian Culture	To study the traditions of Abhiras in the areas of near about Lucknow, Lucknow University	20
5.	Shri R. A. Vakil, Lecturer in Political Science	Research work at the Indian Institute of Public Administration, New Delhi	25
6.	Kumari M. G. Jani, U.G.C. Scholar in Sanskrit	Research work on Suddhadvaita conception of Brahma as in Anubhashya with reference to Srutis and Smrutis interpreted therein at Bombay University, Bombay and at Gujarat University, Ahmedabad	20
7.	Shri V. B. Joshi, U.G.C. Scholar in Hindi	Research work on Mahakavi Nirala—his Philosophy and Art at Delhi University, Sagar University, Allahabad University and Hindi Nagari Pracharini Sabha Banaras, Lucknow and Agra	30
Faculty of Science			
8.	Dr. M. M. Patel, Reader in Physics	To take some high dispersion spectra of halides of cadmium at the Institute of Science, Bombay	30
9.	Dr. A. R. Mehta, Reader in Botany	To study the Plant Physiology with Tissue Culture Techniques at the Department of Botany, University of Delhi, Delhi	8
10.	Shri R. P. Bhatt, Lecturer, Department of Botany	To work in the Department of Botany, Karnatak University, Dharwar	45

Sr. No.	Name of the Designation of the person	Place and purpose of the award	Number of Days
11.	Shri L. K. Gaekwad, Lecturer in Botany	To acquaint himself with the routine work of the Section of Plant Pathology and Bacteriology at the College of Agriculture Poona and to study the techniques of east infections, Mahabaleshwar	24
12.	Shri Y. S. Deshmukh, Lecturer in Botany	Research work in plant Embryology at the University of Delhi, Delhi	31
13.	Shri O. P. Goyal	To consult some research journals in Mathematics at the Indian Mathematical Association Society Library, Madras	30
14.	Shri G. V. Shah, Lecturers in Mathematics		
15.	Shri A. G. Phatak, Lecturer in Statistics	To attend the Intensive course on Computation on I.B.M. Computer at the Indian Institute of Technology, Kanpur	14

Faculty of Commerce

16.	Shri R. N. Reddy, Lecturer in Economics	Collection of date and discussion with research staff of R.I.B. at Reserve Bank of India, Bombay	20
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Faculty of Technology and Engineering

17.	Shri N. C. Shah, Lecturer in Civil Engineering	Practical Training at Central Water and Power Research Station, Poona	45
18.	Shri V. S. Shah, Lecturer in Structural Engineering	Study of Laboratory Equipment at The Indian Institute of Science, Bangalore	45
19.	Shri D. T. Brambhatt, Lecturer in Geology	Training in various laboratories of Oil and Natural Gas Commission, Dehradun	30
20.	Shri O. K. Shah, Lecturer in Geology	Training in various laboratories at the Central Fuel Research Institute, Dhanbad	30

CHAPTER VIII—FACULTY OF ARTS

1. Courses of Study

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, Geography, Gujarati, Hindi, History, Marathi, Philosophy, Political Science, Psychology, Sanskrit and Sociology
(2) B.A. and M.A.	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	German and Russian Languages
(7) Certificate courses	French, German and Russian Languages

A certificate course in French was introduced from June, 1964.

2. Number of Students

The number of students enrolled in the various classes at the commencement of the year 1964-65 was as under:

Class	Men	Women	Total
1. Certificate course in German Language	73	5	78
2. Certificate course in French	41	5	46
3. Certificate course in Russian	21	6	27
4. Diploma course in German	10	2	12
5. Diploma course in Russian	2	2	4
6. F.Y.B.A.	234	243	477
7. S.Y.B.A.	183	176	359
8. T.Y.B.A.	164	111	275
9. Diploma in Library Science	8	7	15
10. Jr. M.A.	74	51	125
11. Sr. M.A.	65	26	91
12. Ph.D.	7	3	10
Total	882	637	1519

3. Staff

During the year the staff of the Faculty consisted of 7 Professors, 18 Readers, 53 Lecturers, 6 Tutors, 3 Part-time Teachers, 1 Curator, 1 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 and staff of the Faculty make use of the Shrimati Hansa Mehta Library, which is on the premises. The Faculty Central Hall is currently being used as an annexe of 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 1-4-1964 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment as on 31-3-1965 Rs.
(1)	Museum	4,533-98	—	—	4,533-98
(2)	Studio	15,320-40	—	—	15,320-40
(3)	Excavation equipment	1,622-05	—	—	1,622-05
(4)	Drawing equipments	1,806-75	—	—	1,806-75
(5)	Deadstock	51,909-33	—	664-91	52,574-24
(6)	U.G.C. (N.R.) equipments	77,834-57	—	—	77,834-57
	Total	1,53,027-08	—	664-91	1,53,691-99

6. Publications by the Members of the Staff

The following were the publications by the members of the staff of the Faculty during the year 1964-65:

(1) Books

Sr. No.	Name	Title	Name of the Publishers
1.	Dr. G. J. Wainwright	The Pleistocene deposits of the lower Narmada river and an early stone age industry from the river Chambal	M. S. University, Archaeology and Ancient History Series No. 7, September, 1964

Sr. No.	Name	Title	Name of the Publishers
2.	Dr. S. G. Kantawala	Cultural History from the Matsya Purana	M. S. University of Baroda, January, 1965
3.	Dr. S. C. Misra	Muslim Communities in Gujarat	Asia Publishing House, Bombay, September, 1964
4.	Dr. S. H. Joshi	Janantike— (Literary Essays)	February, 1965, Swati Prakashan, Samuel Street, Bombay
5.	Shri D. D. Mahulkar	A Prism of Prose	Orient Longmans, 1964
6.	Professor A. H. Somjee	Politics of Peri-Urban Community	Asia Publishing House, October, 1964
7.	Professor I. P. Desai	(i) Some aspects of Family in Mahuva (ii) Pattern of Migration and occupation in South Gujarat Village	Asia Publishing House, Bombay, 1964 Deccan College, Poona, 1964

(2) Articles or Papers

Sr. No.	Name	Title	Name of the Journal wherein published
1.	Dr. R. N. Mehta	"Dehgam—Ek Prachin Vasahat"	Vidyapeeth, Ahmedabad, March-April, 1964
2.	Shri K. T. M. Hegde	(i) Treatment of a Metal Casket containing Relics of the Lord Buddha (ii) Metallographic studies in Chalcolithic Objects "	Journal of the International Institute for Conservation London No. 2 Vol. 9, May, 1964 Journal of the Oriental Institute, Baroda, No. 1, Vol. XIV, September, 1964
3.	Shri A. J. Patel	(i) Earthenware and Potters of Gujarat (ii) Pottery Industry in Gujarat	Journal of the M. S. University, Baroda, April, 1964 Ceramics, Madras State, May, 1964

Sr. No.	Name	Title	Name of the Journal wherein published
4.	Professor M. B. Desai and Shri R. S. Mehta	(i) Rural Reconstruction in Baroda—A Historical Perspective (ii) Change and its agencies in Community Development—Reflections from the study of Community Development block in Gujarat	Journal of the M. S. University, Baroda, Social Science, Vol. XIII, No. 2, July, 1964 Silver Jubilee number of the Indian Journal of Ag. Economic, Vol. XIX, Nos. 3 and 4, July, December, 1964
5.	Professor I. S. Gulati	(i) Income Vs. Price subsidies to exports (ii) Income distribution and Savings in India (iii) Rediscovering Kaldor (iv) Time for Tax Reform	Journal of Banco Exterior of Mexico <i>Mercurio of Rome, Italy</i> The Economic Weekly of Bombay The Economic Weekly of Bomay
6.	Dr. J. C. Sandesara	Migration and Metropolitan Living—A study of Indian critics	The Economic Weekly, May 1964 A summary of this paper appeared in the International Development Review June, 1964
7.	Dr. V. N. Kothari	Relative earnings in India—Research Paper (Micrographed)	Department of Economics, University of Chicago, Chicago
8.	Dr. A. N. Jani	The evolution of northern music as found in Sanskrit works	Journal of the M. S. University, Baroda, Vol. 1, April, 1964
9.	Dr. S. G. Kantawala	(i) Matsyapurana and Vasudevahindi (ii) Some Geographical and Ethnic data of the Matsyapurana	Journal of the M. S. University, Baroda, Vol. No. 1, April, 1964 "Purana" Bulletin, Banaras, Vol. VI, No. 2, July, 1964

Sr. No.	Name	Title	Name of the Journal wherein published
10.	Dr. S. C. Mishra	Edited the Journal of the M. S. University of Baroda Humanities Number	
11.	Professor V. Y. Kantak	(i) Wither Literary Research? (ii) The Poor player, stage image in Shakespeare (iii) Shakespeare's Men and Women	The Indian Journal of English studies, December, 1964 Shakespeare comes to India, ed. C.D. Narshimahaiah, Mysore, 1964 The Aryan Path, November and December, 1964
12.	Shri R. N. Mehta	"The Grandissimes—A Minor Master piece"	The literary criterion summer, 1964
13.	Dr. Y. J. Tripathi	Jeevan Deep—Ek Parichaya	Prabhat-Navsaurashtra Deepotsavi, November, 1964
14.	Dr. S. H. Joshi	(i) Man in Western Fiction (ii) Eliot's Concept of Kshitij Poetry	Granth—January, 1965 Granth—January, 1965
15.	Kumari P. M. Parikh	Segmental Phonemics of Gujarati	Journal of the M. S. University, Baroda, Vol. XIII-1
16.	Shri D. D. Mahulkar	Linguistics and Literary Criticism	Indian Linguistics, 1964
17.	Shri R. A. Vakil	Union state relation in India with Special reference to C.D. Programme	Journal of the M. S. University, Baroda (Social Science), Vol. XIII, No. 2, July, 1964
18.	Dr. A. G. Javadekar	(i) Constructive re-interpretation of Vedanta (ii) Vyakti Aur Rajya (iii) Advaita Vedantat Jagache Kharepan	Philosophical Quarterly, Amalner, April, 1964 Darshanik Quarterly, October, 1964 Jeevan Vikas, Nagpur, November, 1964

7. Co-curricular Activities

(1) Tours:

The Department of Gujarati arranged a tour of students to Galteshvara on the 4th October, 1964. The Department of History organised the tour of students to Kashmir and Northern India during October, 1964. The Department of Sanskrit and the Sanskrit Literary Society arranged a trip to Kabirvad on the 22nd November, 1964. The Department of German went on an excursion to Pavagadh on the 24th January, 1965.

(2) Debates:

Dr. A. G. Javadekar acted as the convener of the Speaker's Club and guided the students in the art of elocution. The students represented the faculty at the various University Union Debates as well as those conducted by other Universities

(3) 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) Philosophical Society, (k) Hindi Sahitya Samiti, (l) The Speaker's 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 the discussions were held with both the students and the teachers participating in them. The Shakespeare Society presented two plays—Tennessee William's 'The Long Good-Bye' and Norman Holland's 'On the Frontier' on the 27th February, 1965 in the Auditorium of the General Education Centre.

The German Language Society arranged film shows, held discussion evenings meant for the Diploma class students for practising the talking of the German language and organised exhibitions on Modern German Graphic Arts and Photographic studies of Calcutta and its environs.

(4) Celebrations:

Important national days were observed and anniversaries of men of letters in Hindi literature were also celebrated by arranging lectures befitting the occasion.

(5) Planning Forum:

Shri N. M. Pandya, Lecturer in Economics was in charge of the University Planning Forum during the year. The University Planning Forum carried out

various activities like holding a debate, essay competitions, extension lectures by teachers, study tour, etc. during celebrations of the National Plan Week.

(6) Other Important Events:

(i) Shri Balwantrao Mehta, Chief Minister, Gujarat State, Shri Kanaiyalal M. Munshi, the well-known writer and social worker, Dr. V. K. R. V. Rao, member of the Planning Commission and Shri Bhaktadarshan, Deputy Minister for Education, Government of India visited the Department of Archaeology and Ancient History

(ii) The Forty-Seventh All India Economic and the Eighteenth All India Labour Economics Conferences were held under the auspices of this University in December, 1964. Professor M. B. Desai was the Honorary Local Secretary of the Conferences.

(iii) Professor M. B. Desai has been associated as a Director on the Board of Directors of the State Bank of India, Ahmedabad Circle, as a Chairman of the Advisory Committee for the fixation of minimum wages in Agriculture, Government of Gujarat, etc.

(iv) Professor I. S. Gulati was invited by the United Nations to go on U.N. Mission to Trinidad to advise on 'Tax Policy' from February to September, 1964.

(v) Professor V. Y. Kantak was invited to deliver a series of lectures on "Tennyson and his age" to the post-graduate students of the Marathawada University, Aurangabad, in February, 1965. He gave extension lectures on Shakespearean themes to the post-graduate students of the Punjabi University and the Delhi University in February-March, 1965.

(vi) Dr. S. M. Katre, Director, Deccan College, Poona gave a talk on "Etymologies" on the 22nd February, 1965.

(vii) Dr. A. G. Javadekar was elected as Vice-President of the Akhil Bharatiya Darshan Parishad in its 10th Session held at Jaipur in October, 1964 and also as Joint Secretary of Indian Philosophical Congress at the Madras Session in 1964.

(viii) The Sanskrit Department organised a function on the 31st August, 1964 to felicitate Professor G. H. Bhatt on being awarded the certificate of National award.

(ix) Professor I. P. Desai participated in the seminar organised by the Tata Institute of Social Sciences at Bombay under the auspices of the Education Commission.

(x) Nine students of this Faculty qualified for the award of the Ph.D. degree in this academic year.

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 and Microbiology
- (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, 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 Ph.D. degree is by research only and of two years duration after M.Sc.

The Department of Microbiology was started from June, 1964 in the Faculty.

2. Number of Students

The number of students on roll in the various classes in the year 1964-65 was as under:

Class	Men	Women	Total
Pre-Medical	106	19	125
F.Y.B.Sc.	124	49	173
S.Y.B.Sc.	140	50	190
T.Y. B.Sc.	126	34	160
Junior M.Sc.	104	25	129
Senior M.Sc.	114	16	130
Ph.D.	55	5	60
3. Staff	Total 769	198	967

During the year the staff of the Faculty consisted of 9 Professors, 19 Readers, 54 Lecturers, 54 Demonstrators and Tutors, 77 Class III and 58 Class IV servants. 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, helping the General

Education Department. Dr. A. G. Berger joined as Fulbright Visiting Professor to teach Avian Biology to the post-graduate students of the Zoology Department. 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. Some teachers and experts were also invited under the U.G.C. scheme of Exchange of Professors and Experts from other Universities and Research Institutes to deliver lectures and provide guidance for research work in the departments of Bio-Chemistry, Geology, Microbiology, Physics and Statistics.

4. Library

There is no separate library or reading room for the Faculty of Science, as the University Library—Shrimati Hansa Mehta Library—is situated just near the buildings of the Faculty of Science. Some departments however maintain small departmental libraries with books loaned from the University Library.

The amounts spent during the year for science books and periodicals etc. were: (i) Rs. 10,000/- from Science Faculty Budget, (ii) Rs. 42,000/- 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. The Microbiology Department which was started in June, 1964 has spent Rs. 3,500/- on books and periodicals.

5. Museum, Laboratories and Workshop

The Museums of the Botany, Geography, Geology and Zoology Departments were enriched by the addition of specimens and other articles. Considerable 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 in training Physics post-graduate students in workshop practice etc.

Substantial additions of scientific apparatus and equipment were made during the year to the laboratories of the Faculty. The following table gives the cost of equipment in the different laboratories added during the year 1964-65 and the total cost as on 31-3-1965.

Laboratory	Cost of equipment as on 1-4-1964	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1965
1	2	3	4	5
	Rs.	Rs.	Rs.	Rs.
Bio-Chemistry	3,38,056	—	41,543	3,79,599

1	2	3	4	5
	Rs.	Rs-	Rs.	Rs.
Botany	3,54,365	—	31,727	3,86,092
Chemistry	4,36,128	—	66,437	5,02,565
Geography	1,71,417	—	19,417	1,90,834
Microbiology	—	—	30,000	30,000
Physics (including workshop)	4,96,429	—	75,804	5,72,233
Statistics	91,890	—	3,090	94,980
Zoology	2,72,774	987	54,386	3,26,173
Total	21,61,059	987	3,22,404	24,82,476

The Geology Department housed in the Faculty of Technology and Engineering during the year under review has spent Rs. 1,16,352-62 for the purchase of equipment in the year 1964-65 through this Faculty.

6. Publications of the Members of the Staff and Students

Sr. No	Author	Title	Name of Journal wherein published
1.	R. Rajalakshmi, C. V. Ramakrishnan, K. D. Mainigi, B. M. Gokhani, V. G. Patel and T. V. Patel	(i) Studies on normal and cancerous human cervix tissue cultivated <i>in vitro</i> in synthetic medium	Oncologia; 18, 300-310, 1964
		(ii) Abnormal biochemical behaviour of five normal human cervix tissues cultivated <i>in vitro</i>	Oncologia, 19, 67, 1965
2.	R. Rajalakshmi, C. V. Ramakrishnan and A. D. Deodhar	Studies on Human Lactation Part V	Acta Paediat, 1965
3.	R. Rajalakshmi and G. Subbalakshmi	Effect of Fenugreek Supplementation on the Biological value of Rice and Blackgram diet-R	Ind. Journal of Biochem., 1, 104, 1964

Sr. No.	Author	Title	Name of Journal wherein published
4.	R. Rajalakshmi and Bhanu B. Kothari	Ascorbic Acid intake of Poor families in Baroda with particular reference to Vegetable used and cooking procedures	J. Ind. Dietetic Assoc., 2: 1, 1964
5.	R. Rajalakshmi, Kalindi Nanavati and Asha Gumashta	(i) Effect of Cooking procedures on the free and total niacin content of certain foodstuffs (ii) Ascorbic acid content of tissues in rats fed different protein diets	J. Nut. and Diet, 1: 276, 1964 Ind. J. Exptl. Bio. Vol. 2, 238, 1964
6.	R. Rajalakshmi, K. V. Govindrajan and C. V. Ramakrishnan	Effect of Dietary protein content on visual discrimination learning and Brain Biochemistry in the albinorat	Indian Journal of Experimental Biology 12, 261
7.	A. R. Chavan and Y. S. Deshmukh	(i) Studies in Organogeny and Ontogeny—IV. A study of Floral Organogeny and Ontogeny of extra-floral genus <i>Clerodendron</i> (ii) Studies in Organogeny and Ontogeny—V. A study of floral Organogeny and Ontogeny of extra-floral nectaries in <i>Petrea volubilis</i> Linn	M. S. Univ. Jour. Vol. 13, No. 3, October, 1964 Ibid. Vol. 13, No. 3, October, 1964
8.	A. R. Chavan and R. P. Bhatt	Some observations on the behaviour of tendril in the family, <i>Cucurbitaceae</i>	Ibid. Vol. 13, No. 3, October, 1964
9.	A. R. Chavan and S. J. Bedi	New Plant Records from Earstwhile Bombay State	J.B.N.H.S. December, 1964
10.	A. R. Mehta	Recent advances in Free Cell Culture of Plants	Tissue Culture Seminar, 1965
11.	R. H. Mehta and Suresh Sethna	Beckmann Rearrangement of the oximes of some C-Acylcoumarins	J. Indian Chem. Soc., 1964, 41, 122

<i>Sr. No.</i>	<i>Author</i>	<i>Title</i>	<i>Name of Journal wherein published</i>
12.	K. P. Mathi and Suresh Sethna	Chromones and Flavones Part V, Synthesis of some 3', 3'' and 6', 6'' biflavonyls	J. Indian Chem. Soc., 1964, 41 , 347
13.	M. J. S. Dewar and A. M. Talati	(i) A new organometallic semi conductor (ii) Organometallic semi-conductors. I. Derivatives of oximes of 1, 5-diacyl 2, 6-dihydroxy naphthalenos	J. Amer. Chem. Soc. 1963, 85 , 1874 J. Amer. Chem. Soc., 1964, 86 , 1832
14.	A. M. Talati and T. I. Patel	Ultraviolet absorption spectra of the derivatives of isonitroso cyanoacetic acid	J. Indian Chem. Soc. 1964, 41 , 602
15.	R. H. Mehta	Syntheses of some Mannich Bases from coumarin derivatives	Indian J. Chem., 2 , 336, 1964
16.	J. S. Dave and P. R. Patel	Liquid Crystal behaviour in homologous series of Schiff's base compounds	Indian Journal of Chemistry, 1964, 2 , 194
17.	Smt. V. A. Janaki	Indo-China—A Study in Political Geography	Faculty of Science Magazine No. 12, March, 1965 (1964-65)
18.	N. S. Pandya and A. S. Thattey	Growth and etch spirals on Cadmium single crystals	Ind. J. Pure and Applied Phys. 2 , 233, 1964
19.	R. V. Joshi and A. K. Menon	(i) Trap distribution changes in quenched KCl by heating or pressure (ii) Electron traps in KCl quenched from the melt (iii) Speculations on the nature of emitters in quenched KCl	Z. Physik, 178 , 375, 1964 Phy. Letters 10 , 262, 1964 J. Phys. Soc. Japan 20 , 457, 1965
20.	S. Sankaranarayanan, P. S. Narayana and M. M. Patel	Emission spectrum of bismuth monofluoride Bif—'A' System	Proc. Ind. Acad. Sc. 59 , 378, 1964

<i>Sr. No.</i>	<i>Author</i>	<i>Title</i>	<i>Name of Journal wherein published</i>
21.	N. M. Bhatt and P. H. Dave	A note on the Correlation between polynomial transformations of normal variates	J.I.S.A., Vol. II Nos. 2 and 3, 1964 pp. 177-181
22.	M. H. Tailor, J. V. Patel, N. M. Bhatt and B. T. Dave	Roentgenographic appearances of the normal chest	Journal of Association of Physicians of India June 1964, Vol. XII No. 6, pp. 437-464
23.	S. C. Jaiswal and M. C. Jaiswal	Employment and wages in Indian Industries	J.M.S.U.B. Vol. XII No. 2 July 1964, pp. 73-79
24.	N. M. Bhatt	(i) The growth and Development of the Maharaja Sayajirao University of Baroda 1949-64 (ii) Mark and Grade Systems (in Gujarati) (iii) Reciprocal of the Variance matrix of quantiles	Souvenir of 47th All India Economic Conference and Eighth All India Labour Economic Conference, Baroda 1964 Nootan Shikshan Jan. 1965. pp. 269-273 J.M.S.U.B., Vol. XIII, No. 3, November, 1964
25.	A. G. Phatak	A simple table for M.L.E. of parameters of singly truncated Normal distribution	J.M.S.U.B., Vol. XIII, No. 3 November, 1964
26.	B. K. Shah and C. G. Khatri	A method of filling the regression curve E (y)	Technometrics, Vol. VII, No. 1 February, 1965, pp. 59-65
27.	Indira Bhanot, R. C. Patel and T. V. Patel	Statistical Summary of Medical Examination Reports of the students of M. S. University of Baroda, No. 7	Published by Statistical Service Unit, M. S. University of Baroda, August, 1964

Sr. No.	Author	Title	Name of Journal wherein published
28.	J. C. George and N. J. Chinoy	(i) Cellular organisation and certain histophysiological features of the avian abdominal musculature (ii) Cytochemical evidence for nuclear origin of lipids in cultured muscle cells. A basis for a concept of genetic control in lipid synthesis	<i>Pavo</i> , 2 : 1, pp. 12-25 <i>J. Anim. Morphol. Physiol.</i> , 11 : 1, pp. 105-118
29.	J. C. George and N. V. Vallyathan	(i) Lipase and succinic dehydrogenase activity of the migratory starling, <i>Sturnus roseus</i> in the pre-migratory and Post-migratory periods (ii) Capacity for fatty acid oxidation by the breast muscle of the starling, (<i>Sturnus roseus</i>) in the pre-and post-migratory periods (iii) Effect of exercise on free fatty acid levels in the pigeon (iv) Effect of exercise on phosphorylase and succinic dehydrogenase levels in pigeon breast muscle	<i>J. Cell. and Comp. Physiol.</i> , 63 : 3, pp. 381-392 <i>Canadian J. Physiol. Pharmacol.</i> V. 42, 1964 <i>J. Appl. Physiol.</i> 19: 4, pp. 619-622 <i>J. Anim. Morphol. Physiol.</i> , 11 : 1, pp. 186-191
30.	N. V. Vallyathan and J. C. George	Glycogen content and phosphorylase activity in the breast muscle of the migratory starling, <i>Sturnus roseus</i> , (Linnaeus)	<i>Pavo</i> , 2 : 1 pp. 55-60
31.	J. C. George and D. A. Chandra Bose	Studies on the Structure and Physiology of the flight muscles of birds. 11. Cellular organization and distribution of fat and succinic dehydrogenase in the pectoralis of some passerines	<i>J. Anim. Morphol. Physiol.</i> 11 : 1, pp. 90-96

Sr. No.	Author	Title	Name of Journal wherein published
32.	D. A. Chandra-Bose and J. C. George	Studies on the structure and physiology of the flight muscles of birds. 12. Observations on the structure of the pectoralis and supracoracoideus of the ruby-throated unhumming-bird	<i>Pavo</i> , 2: 2 pp. 111-114
33.	J. C. George, N. J. Chinoy and D. A. Chandra Bose	Studies on the structure and physiology of the flight muscles of birds	<i>Pavo</i> , 2: 1, pp. 61-64
34.	J. C. George and D. V. Naik	(i) Cyclic changes in the thyroid of the migratory starling, <i>Sturnus roseus</i> , (Linnaeus) (ii) Certain cyclic histological changes in the testis of the migratory starling, <i>Sturnus roseus</i> , (Linnaeus) (iii) Cyclic histological and histochemical changes in the pancreas in relation to blood glucose levels in the migratory starling, <i>Sturnus roseus</i> (Linnaeus)	<i>Pavo</i> , 2: 1, pp. 37-47 <i>Pavo</i> , 2: 1, pp. 48-54 <i>Pavo</i> , 2: 2, pp. 88-95
35.	J. C. George and A. K. Susheela	Fatty acid oxidation by rat diaphragm	<i>J. Anim. Morphol. Physiol.</i> , 11: 1, pp. 180-185
36.	A. K. Susheela and J. C. George	Lipase activity in the bat diaphragm	<i>J. Anim. Morphol. Physiol.</i> , 11: 2, pp. 276-279
37.	J. C. George, A. K. Susheela and N. V. Vallyathan	Histochemical evidence for biochemical differentiation and regional specialization in the pectoralis muscle of the house sparrow	<i>Pavo</i> , 2: 2, pp. 115-119
38.	J. C. George and K. S. S. Nair	(i) A histological and histochemical study of the larval fat body of	<i>J. Insect Physiol.</i> 10: pp. 509-517

Sr. No.	Author	Title	Name of Journal wherein published
		<i>Anthrenus vorax</i> waterhouse (Dermestidae, cole-optera)	
		(ii) A quantitative study of changes in fat and glycogen during metamorphosis of the dermestid beetle, <i>Anthrenus vorax</i> waterhouse	J. Anim. Morphol. Physiol. 11 : 1, pp. 162-172
39.	J. C. George and F. D. Bokdawala	Cellular organization and fat utilization in fish muscle	J. Anim. Morphol. Physiol. 11 : 1 pp. 124-132
40.	J. C. George and P. Thomas Iype	Fatty acid oxidation by breast muscle homogenates of a migratory and non-migratory starling	<i>Pavo</i> , 2 : 2, pp. 84-87
41.	R. M. Naik and Shashi Naik	Rete-type vascularity of the buccopharyngeal walle in the House Swift	<i>Pavo</i> , 2 : 2, pp. 105-110
42.	R. V. Shah and V. B. Patel	Myology of the Chelonian pectoral appendage	J. Anim. Morphol. Physiol. 11 : 1, pp. 58-84
43.	J. C. George	(i) Muscle Lipase	J. Anim. Morphol. Physiol. 11 : 1, pp. 233-243
		(ii) Change of mate in the Indian Robin <i>Saxicoloides fulcata</i> (Linnaeus)	<i>Pavo</i> , 2 : 2, pp. 120-122
44.	R. M. Naik	Breeding season of the Indian Robin, <i>saxicoloides Fulcata</i> (Linnaeus) within the Baroda University Campus	<i>Pavo</i> , 2 : 1 pp. 65-66
45.	A. R. K. Das	The breeding biology of <i>nectarania asiatica</i> (Latham)	<i>Pavo</i> , 2 : 2, pp. 71-83
46.	A. G. Berger	The breeding seasons of Indian birds	<i>Pavo</i> , 2 : 2, pp. 120-122
47.	N. M. G. Bhakthan	Certain biochemical properties of insect muscle lipase	J. Anim. Morphol. Physiol. 11 : 2, pp. 285-292

Sr. No.	Author	Title	Name of Journal wherein published
48.	B. M. Hegdekar	Lipase activity in the fat body of a few orthopteran insects	J. Anim. Morphol. Physiol., 11 : 2, 1964
49.	P. M. Ambadkar	Histochemical localization of certain oxidative enzymes in the rat testis	J. Histochem. and Cytochem. 12 : 8, pp. 587-590, 1964

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) Study Tours:

Senior students of the Botany, Geography and Geology Departments went with their teachers on several study tours to make field studies and collect materials for their Museums.

(3) Film Shows:

Film shows were arranged to supplement class room teaching and promote general education. A good 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. Other Important Events

(1) The following Seminars and Schools were organised during the year under the auspices of the University Grants Commission and the University:

- (a) Tissue Culture Seminar—Director, Professor C. V. Ramakrishnan
- (b) Summer School in Advanced Statistics—Director, Professor N. M. Bhatt
- (c) Summer School in Mathematics for School Teachers at Mount Abu—Director, Shrimati Indira Bhanot
- (d) Winter School in Statistical Methods for Research Workers in Natural and Social Sciences—Director, Shrimati Indira Bhanot.

(2) Scholarships:

- (i) Five Post-graduate Research Scholarships. Two in Chemistry Department, one each in Geology, Physics and Zoology Departments are awarded by the University Grants Commission.

- (ii) One Post-graduate National Merit Scholarship is awarded by the Government of India in the Physics Department.
- (iii) One Post-graduate Research Scholarship is awarded by the University.
- (iv) Ten Junior Research Fellowships awarded by the Council of Scientific and Industrial Research are continued (Two in Mathematics, Two in Chemistry, Two in Zoology, Three in Physics and one in Geology).
- (v) One Post-graduate Scholarship each in Chemistry, Physics and Zoology and one undergraduate Scholarship in Physics and Chemistry and awarded by the Atomic Energy Establishment of the Government of India. One Post-graduate Scholarship in Zoology is renewed for the year 1964-65.

(3) The theses of six students—two each in Chemistry and Zoology and one each in Botany and Physics were accepted for the award of the Ph.D. Degree during the year under report.

CHAPTER X—FACULTY OF EDUCATION AND PSYCHOLOGY

1. Courses of Studies

There is a provision for the following courses:

- (1) B.A., M.A., Ph.D. : Psychology
- (2) B.Ed., M.Ed., Ph.D. : Education and Educational Administration
- (3) Post-graduate Diploma : (i) Educational Administration
(ii) Guidance and Counselling
- (4) Undergraduate Diploma : Education—T.D.
Early Childhood Education

2. Number of Students

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

	<i>Students</i>		
	<i>Men</i>	<i>Women</i>	<i>Total</i>
<i>(a) Undergraduate Diploma:</i>			
(1) T.D.	19	11	30
(2) Diploma in Early Childhood Education	2	3	5
Total	21	14	35
<i>(b) Degree:</i>			
(1) B.Ed.	71	43	114
(2) S.Y.B.A. (Psychology)	3	39	42
(3) T.Y.B.A. (Psychology)	7	22	29
Total	81	104	185
<i>(c) Post-graduate Diploma:</i>			
(1) Junior Diploma in Guidance and Counselling	1	—	1
(2) Senior Diploma in Guidance and Counselling	2	1	3
(3) Junior Diploma in Educational Administration	1	—	1
(4) Senior Diploma in Educational Administration	4	—	4
Total	8	1	9

(d) Post-graduate Degree:

Students

	Men	Women	Total
(1) Jr. M.Ed. (by papers and dissertation)	13	6	19
(2) Sr. M.Ed. (by papers and dissertation)	15	4	19
(3) Jr. M.A. (Psychology)	4	5	9
(4) Sr. M.A. (Psychology)	3	3	6

Total	35	18	53
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(e) Ph.D. (Registered during the year)

2	1	3
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3. Staff

Grand Total	147	138	285
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During the year the staff of the Faculty consisted of 3 Professors, 6 Readers, 15 Lecturers, 2 Tutors and 2 Demonstrators and 12 Class III and 7 Class IV Servants. In addition to the above, a Co-ordinator was in charge of the Department of Extension Programme in Secondary Education.

The University of Frankfurt has agreed to take one of the staff members of this Faculty for advanced studies and research. Shri P. K. Dongre, M.A., M.Ed. is at present studying at Frankfurt under this scheme.

4. Library

The Faculty library was amalgamated with Shrimati Hansa Mehta Library and the students make use of this library. The Faculty also maintains small Departmental libraries. The reading room which is retained, provides facilities for general reading. There is a separate library now being built up for the staff and post-graduate students in the Centre for Advanced Study and Research with a provision of one lakh of rupees for the purchase of books. So far 2410 books have been purchased at the cost of Rs. 38,814-07. The library is subscribing to 47 educational journals.

5. Museum, Laboratory, etc.

(1) Museum:

The Faculty museum consists of a number of teaching aids for various school subjects. Each candidate of the B.Ed. and T.D. classes prepares one "Teaching Aid" once a year on one of the subjects of specialization.

Sr. No.	Item	Cost of equipments as on 1-4-1964 Rs.	Cost of equipments written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment as on 31-3-1965 Rs.
1.	Museum	12,032-79	—	—	12,032-79
2.	Teaching aids	900-00	—	609-86	1,509-86

(2) The Psychological Laboratory:

The laboratory is equipped with 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 from the University Grants Commission, new additions were made to the apparatus.

The cost of the equipment of the laboratory is given below:

Sr. No.	Item	Cost of equipments as on 1-4-1964 Rs.	Cost of equipments written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment as on 31-3-1965 Rs.
1.	Laboratory	55,002-33	—	1,528-00	56,530-33

(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 with 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 1-4-1964 Rs.	Cost of equipment written off during the year Rs.	Cost of equipment added during the year Rs.	Cost of equipment as on 31-3-1965 Rs.
1.	Audio-Visual Aid	17,359-60	—	1,474-25	18,833-85

6. Publications.

(A) Books:

The following were the main publications of the members of the staff during the year 1964-65:

Sr. No.	Name	Title	Name of the publishers with month of publication
1	2	3	4
1	Professor M. S. Patel	The Teaching of English as a foreign Language (3rd edition)	Acharya Book Depot, Baroda 1964
2	Professor L. J. Bhatt	આવ મનોવિજ્ઞાન 2nd (revised) edition	Popular Book Stores
3	Dr. D. M. Desai and Dr. G. B. Shah	Modern Philosophies of Education (Gujarati)	A. R. Sheth & Co. Bombay, March 1965
4	Dr. (Kumari) P. Pasricha	Chapters— (i) Development of Preception and concept formation (ii) Educating the gifted child	University Publishers, Delhi, Ambala Cantonment, June, 1964
5	Shri J. J. Mody	(i) Principles of Education (Gujarati) (ii) Gujarati Swarvyajanmala	Do M. S. University, Baroda Faculty Publication
6	Dr. G. B. Shah	(i) Modern Philosophies of Education (Gujarati) (ii) Manual and Test: (Shah's Non-Verbal Group Test) of Intelligence	A. R. Sheth & Co., March 1965 Balgovind Kuberdas and Co., Ahmedabad, July, 1965
7	Shri N. C. Soni	An Investigation into English Composition work of Secondary School Children	M. S. University, Baroda, March, 1965
8	Shri J. J. Patel	Supplementary Activities in General Science	A. R. Sheth and Co., Bombay, April, 1964

(B) Brochures :

1	2	3	4
1.	Dr. D. M. Desai	(i) Organised Better School Examination (Education)	Extension Services, Faculty of Education and Psychology, September, 1964
		(ii) Organising Home work Programme in School (Education)	Extension Services, Faculty of Education and Psychology, September, 1964
		(iii) Developing Concepts and Terms in Educational Administration	Extension Services, Faculty of Education and Psychology, September, 1964
		(iv) Outlines of Educational Administration in India	A. R. Sheth and Co., Bombay, August, 1964
		(v) Essentials of Evaluation and Measurement for Teachers	A. R. Sheth and Co., Bombay, October, 1964
2.	Dr. (Kumari) P. Pasricha	Counselling Services for the University Students in U.S.A.	Students Counselling Centre, M. S. University of Baroda, December, 1964
3.	Shri J. J. Patel	(i) Annotated Bibliography in Science	Department of Extension Services, M. B. Patel College of Education, V. V. August, 1964
		(ii) Using Graphic Aids in Class-rooms	Department of Extension, Faculty of Education and Psychology, September, 1964

1	2	3	4
(C) Articles and Papers :			
1. Professor M. S. Patel	(i) Educational Research in Gujarat	Journal of Education and Psychology, October, 1964	
	(ii) Why Examination Reform ?	Nootan Shikshan, January, 1965	
	(iii) Problems of Indian Education	Loksatta, October, 1964	
	(iv) Teacher Education—A challenge and an opportunity	Kaira District Secondary Teachers' Association Silver Jubilee Volume, January, 1965	
2. Professor L. J. Bhatt	Pertinent Problems of Guidance residential addressed to AIEVG Associations	Journal of Vocational Educational Guidance, January, 1965	
3. Dr. A. S. Patel	(i) Problems of Curricular organisation in Higher Secondary Schools	Seminar Paper, December, 1964	
	(ii) Psychological Approach to Language Development	Seminar Paper, January, 1965	
	(iii) Psychological Tests: Advantages and Limitations: (in Gujarati)	Nootan Shikshan, January, 1965	
4. Dr. D. M. Desai	(i) Evaluation in Social Studies	Teacher Education, Delhi, October, 1964	
	(ii) Essentials of good Examination (Gujarati)	Nootan Shikshan, Surat, January, 1965	
	(iii) Secondary School Examination in U. K. (Gujarati)	Nootan Shikshan, Surat, January, 1965	
	(iv) Examination in the Secondary School in U.S.A. (Gujarati)	Nootan Shikshan, Surat, January, 1965	

1	2	3	4
	(v) Some Problems of Low Achievers in Secondary Schools (Gujarati)	Saraswat, Navsari, February, 1965	
5. Dr. (Kumari) P. Pasricha	(i) A Survey of the Problems of the University Students	Social Work Review, Faculty of Social Work, M. S. University, Volume XI, 1964	
	(ii) Sex Difference in the problems of the first year College Students	Journal of M. S. University of Baroda, Social Sciences, Volume XIII, No. 2, July, 1964	
6. Dr. M. A. Quraishi	(i) Al Ghazzal's Philosophy of Education	M. S. University Journal, Humanities, April, 1964	
	(ii) Education in Gujarat under the Muslim Rule	Education and Psychology Review, January, 1965	
7. Dr. B. P. Lulla	(i) New Tasks of Educational Leadership in India	Journal of M. S. University of Baroda, Volume XIII, No. 2, July, 1964	
	(ii) Educational Leadership in India	Indian Education, October, 1964	
	(iii) National Integration through Social Studies	Nootan Shikshan, November, 1964	
	(iv) Purpose of Examinations in our Democracy	Nootan Shikshan, January, 1965	
	(v) Qualities of the Head-Master	Educational Herald, February, 1965	
	(vi) Problems of Curricular Organization in Multipurpose School	Indian Education, March, 1965	
8. Dr. M. M. Shah	(i) Current Problems of Indian Education	Loksatta, October, 1964	
	(ii) Diagnosis and Improvement in Teaching	Nootan Shikshan, January, 1965	

1	2	3	4
9. Dr. G. B. Shah	(i) Psychological Foundations of Social Studies	Teacher Education, DEPSE, 1964	October,
	(ii) Bricks and Buildings of Schools in India	Nootan Shikshan, October, 1964	
	(iii) Our Language Problem	Loksatta, 13-10-1964	
	(iv) Essence of Education and Mechanics of Examination	Nootan Shikshan, Surat, January, 1965	
	(v) Research in Curriculum	Indian Education, AIFEA, Delhi, February, 1965	
	(vi) The New Dimensions of Teaching Geometry	"Suganitam" Gujarat University, March, 1965	
	(vii) An attempt in Remedial Teaching	Experiments in Secondary Education, Extension Services Department, M. B. Patel College of Education, Vallabh Vidyanagar, Anand, March, 1965	
10. Shri R. S. Thakar	(i) Educational Guidance for Multipurpose School	Nootan Shikshan, Surat, July, 1964	
	(ii) C. R. C. for Schools	Nootan Shikshan, August, 1964	
	(iii) Guidance for Multipurpose School	Teaching, September, 1964	
	(iv) C. R. C. in Evaluation	Nootan Shikshan, January, 1965	
11. Shri N. C. Soni	Paper in English According to me (Gujarati)	Nootan Shikshan, January, 1965	
12. Shri J. J. Patel	(i) વિજ્ઞાન શિક્ષણ અંગે અમું અસાધ્ય છે ?	Nootan Shikshan, September, 1964	

1	2	3	4
	(ii) કેળવણીમાં સમાજમાંના સાધનોનો ઉપયોગ	Jivan Shikshan, November, 1964	
	(iii) Community Resources in Education	Progress of Education, February, 1965	
	(iv) અદલાતી શિક્ષણ પદ્ધતિ અદલાતી મૂલ્યાંકન પદ્ધતિ	Nootan Shikshan, March, 1965	
13. Shri D. R. Darji	(i) A Critical analysis of Question papers of Gujarat S.S.C. Examination Board in Social Studies	Nootan Shikshan, August, September, 1964	
	(ii) National Integration and Social Studies	Nootan Shikshan, November, 1964	
	(iii) Design of Action Research	Extension Monograph Department of Extension Services, M. S. University of Baroda	
	(iv) Potentialities of Integrated Teaching of Social Studies	Social Studies Teacher, January, 1965	
14. Kumari N. L. Pandya	(i) Internal Examination and its improvement	Nootan Shikshan, January, 1965	

(D) Journals:

The Faculty continued to publish its quarterly "Education and Psychology Review". It deals with recent researches in Education and Psychology. The Faculty also published Bulletin and "An Abstract of Summaries of Theses and Dissertations" submitted by Ph.D., M.A. (Psy.) and M.Ed. students.

The Faculty has also continued to publish another quarterly "Social Studies Teacher". It discusses day-to-day problems of the teaching of history, geography, civics and other subjects. This quarterly is financed by the union Ministry of Education.

7. Centre for Advanced Studies in Education (Case)

(a) This Centre was established in 1964 under a scheme sponsored by the University Grants Commission to encourage post-graduate teaching and

research of high quality in the field of education. The Centre has four units, viz., Psychometrics and Testing, Curriculum Development, Language Learning, Guidance and Counselling. The Research programme of each unit is outlined below:

(1) *Psychometrics and Testing Construction Unit:*

- (i) Restandardisation of: (i) Teaching aptitude test (for Secondary School teachers), (ii) An Inventory for Predicting Teacher-Efficiency (for primary school teachers) with a view to setting up the norms for different population.
- (ii) Construction and standardization of University entrance test.
- (iii) A small scale investigation to study "The problems of Social adjustment in Co-educational Secondary Schools".

(2) *Curriculum Development Unit:*

- (i) Academic causes of general backwardness at the elementary level.
- (ii) Academic causes of backwardness in mathematics at the elementary level.
- (iii) Academic causes of backwardness in Social Studies (History, Civics and Geography) at the elementary level.

(3) *Language Learning Unit:*

- (i) The causes of backwardness in Gujarati (as a mother tongue) in the Primary Schools of Gujarat.
- (ii) The causes of backwardness in Hindi with reference to bilingual children—Gujarati speaking children of standards V to VII.

(4) *Guidance and Counselling:*

- (i) Administration of the Differential Aptitude Test (D.A.T.) to the Preparatory Unit.
- (ii) Desirable characteristics of students as seen by the teaching staff in the various Faculties of the University.

(b) *Publications:*

1. Pasricha P. and Schreck, T.C. A Handbook for Developing Guidance Services in Secondary Schools
2. Corey, Stephen M. Some Thoughts about Educational Research
3. Patel A. S. and Lulla B. P. Essentials of Writing Research Report
4. Shah G. B. New Dimensions in the Teaching of Mathematics
5. Stoulorow, Lawrence Shaping the New Education: Programme Instruction and Teaching Machine

6. Pasricha P., Pagedar Rajani and Gajjar J. J. Adjustment Inventory and College Students
7. Patel A. S. Research Abstracts (1964)
8. Patel A. S. and Lulla B. P. Curriculum Improvement in Secondary Education
9. Patel A. S., Desai D. M. and Mody J. J. Teaching of Primary and Secondary Languages

(c) *Seminars:*

- (i) A Small Scale Seminar of experienced primary teachers and headmasters of Baroda City to discuss the problems of backwardness at elementary level on the 20th and 21st October, 1964.
- (ii) All India Seminar of Curriculum Improvement in Secondary Education from the 8th to the 12th December, 1964.
- (iii) All India Seminar on Teaching of Primary and Secondary Language from the 25th to the 29th January, 1965.
- (iv) A Local Seminar on Student Personnel Services in Collaboration with U.S. Foundation in India with a view to organizing better student personnel programme in the University from the 17th to the 20th March, 1965.

(d) *Research Colloquy:*

A weekly colloquy was organised by the Centre for inservice growth of staff. Teachers with different specializations were called upon to lead the discussion on research problems in different areas.

(e) *Research Consultation Service:*

- (i) Research Seminar was held weekly for the post-graduate students of the Faculty of Education and Psychology to help them in designing their research work undertaken for their respective degrees.
- (ii) Students of the other Faculties and Departments who experienced difficulties in their research work were advised by the staff of the Centre whenever their guides directed their cases to them.

8. **Literary, Cultural and Other Activities**

(1) *Department of Extension Services:*

The Extension Department launched new activities such as building up intensive study of groups of teachers, school improvement, publication of source books, social studies teacher (quarterly magazine) and school improvement monographs, over and above its normal programmes such as seminars, work-

shops, summer schools, science fairs, school visits and lending books for organizing miniature libraries, teaching aids etc. The Department organized nine School Group meets at Kathor, Kosamba, Halol, Dohad, Derol, Billimora, Pardi, Bular and Dabhoi. The Department has also continued to send its different publications to the schools under its jurisdiction.

Out of 310 schools under the Centre, 15 schools have been selected for intensive school improvement programme and 15 for semi-intensive programmes. 25 schools have launched a programme of "Experimental Projects" with the help of the Department and grants from the Department of Extension Programmes for Secondary Education.

The following seminars and workshops were conducted by the Department:

- (i) A seminar on Examination Reforms in September, 1964
- (ii) A Seminar on Bulletin Board display in January, 1965 at Baroda
- (iii) One day workshop on intensive school programmes at Halol.

The Department organised Science Fairs at the district and region level. The Department brought out ten useful educational monographs and published ten booklets and distributed them to the schools.

(2) *The Secondary School Counselling Centre:*

This Centre undertook the following activities:

- (i) The career talks on the following were given during the off-campus programme:
 - (1) Wireman, (2) Electrical Engineering, (3) Careers in Municipalities, (4) Radio Technician, (5) Architecture, (6) Teachers, (7) Doctor, (8) Social Work, (9) Civil Engineering, (10) Agriculture, (11) Careers for Women.
- (ii) Short case studies of 28 school pupils were undertaken by the B.Ed. candidates. Their findings were given to the School-teachers concerned.
- (iii) A talk on "Why guidance and Counselling for Secondary Schools Pupils?" by Shri R. C. Parikh, the member in charge of the Centre, was given at the M. C. Modi High School, Devgad Baria, on 5th January, 1965.

(3) *Rural Education:*

During the year 1964-65, Waghodia was continued as one of the centres for the activities of the Rural Education batch of students. In order to expand the activities, one more Centre viz. Jarod was added. The usual practice and activities of the rural education group were conducted at both the places during the year.

(4) *University Student Counselling Centre:*

The Student Counselling Centre continued to render service to the students on educational and vocational guidance and personal counselling. 186 students came to the Centre during the year.

The Centre has undertaken a few research projects among which are, 'Occupational World as presented through Language Text-Books', "Adjustment Inventory for B.Ed. students", "Desirable characteristics of students as seen by the teaching staff in the various Faculties of the M. S. University of Baroda" and "Translation and Adaptation of Minnesota Counselling Inventory".

Besides individual services, the Centre organised orientation programmes, and helped some of the schools in initiating and developing Guidance Service.

The Centre organized a seminar on "Student Personnel Services" in co-operation with the United States Educational Foundation in India. The seminar brought together the staff members of the University who are engaged in the field of student services and made some useful recommendations.

The Counselling Centre also runs a post-graduate Diploma course in Guidance and Counselling. This is at present a two-year part-time course.

(5) *Baroda-Michigan Project:*

Under this project Dr. R. X. Fox, Professor of Education, Michigan University worked in this Faculty as Visiting Professor from October, 1964 to March, 1965 and Mr. E. Sullivan, a Ph.D. student of the same University carried out his field work in connection with his Doctorate Degree. A number of seminars were organised under this project with a view to improving the quality of teaching and research in the Faculty.

9. Co-curricular Activities

(1) *English Teachers' Training Course:*

Consequent upon the completion of the English Teachers' Training course for Std. IX during the previous year, the Government of Gujarat sanctioned the scheme for training the teachers of English for Std. X in the Faculty. Teachers from three districts viz. Baroda, Broach and Panchmahals joined the courses. 45 teachers attended the first course, 42 attended the second course and there were 53 teachers in the third course. The training consisted of orientation in phonetics, teaching of the syllabus, methods of teaching and evaluation techniques.

A follow-up programme of visiting schools was undertaken to collect information from teachers concerned and to discuss classroom problems faced by them in teaching English.

(2) *Faculty Clubs:*

Almost all the students' activities in the Faculty are centred round the Faculty Club which is a representative association of the Faculty students with some staff members to guide.

These activities are spread over a variety of items broadly in the following sections:

- (i) Cultural Programmes;
- (ii) Debates and meetings; and
- (iii) Excursions, games and sports.

(3) *Off-Campus Programme:*

The off-campus programme was held at the following centres:

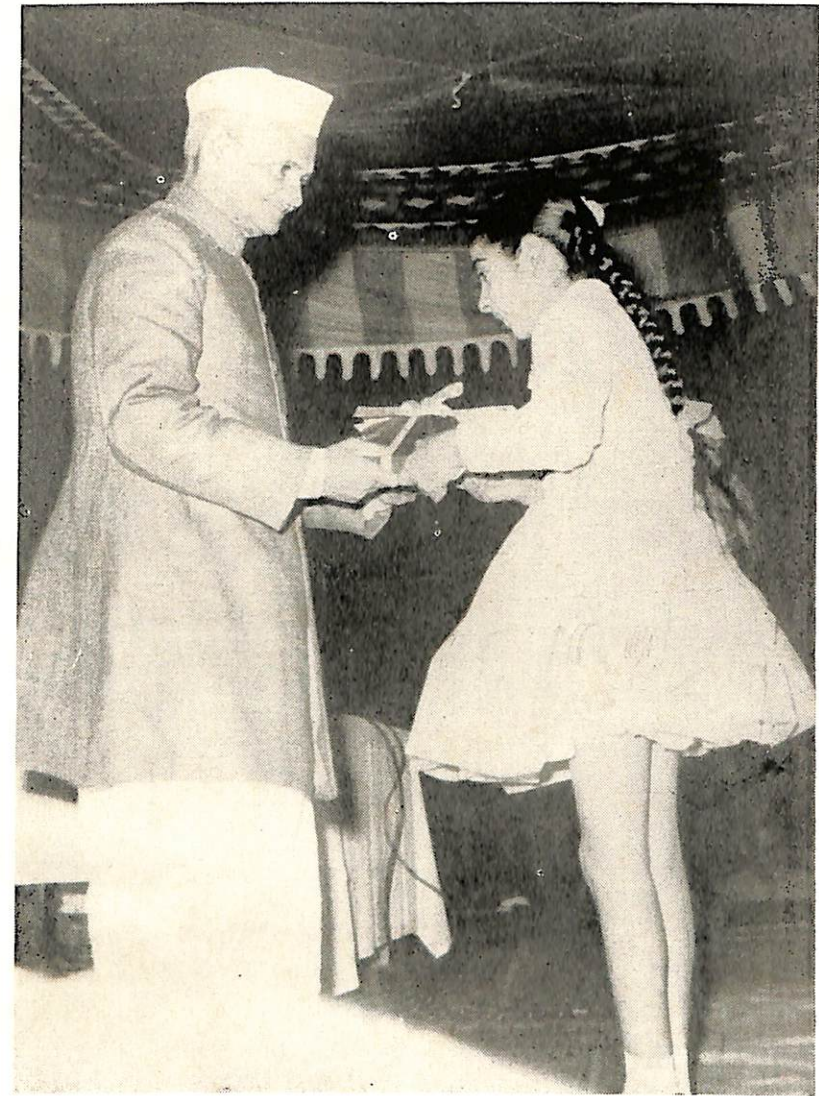
Ajarpura, Vaso, Dharmaj, Kapadwanj, Valia, Rajpipla, Chhota-Udepur, Kathlal, Karvan, Mehsana, Sayan, Billimora and Navsari.

10. **Other Important Events**

(1) One of the alumni, Shri Chhotubhai G. Bhatt, received a State Award from the Government of Gujarat in appreciation of his conscientious service as a teacher.

(2) Among the distinguished visitors to the Faculty during the current year, were the following:

<i>Sr. No.</i>	<i>Name</i>	<i>Position</i>	<i>Date</i>
1.	Prof. G. D. Boaz	Head, Department of Psychology, University of Madras	19-8-1964
2.	Mrs. Edith Berger	University Teacher at Eastern Mich. Ypsilanti, Mich.	10-9-1964
3.	Mr. F. Nissen	Asstt. Regional Representative, British Council, Bombay	21-9-1964 & 22-9-1964
4.	Dr. L. A. Hill	—	9-10-1964
5.	F. Ola Aina	Professor, Faculty of Education, University of Lagos, Lagos.	10-10-1964
6.	Dr. C. A. Eggertson	Director of Baroda-Michigan Project	30-10-1964
7.	Dr. Reid	British Council Office, New Delhi	14-11-1964
8.	Dr. Theodore Rice and Dr. (Mrs.) Chandos Rice	Professor of Education in Wayone State University	4-12-1964 and 5-12-1964



Kumari Parul Hathi receiving Gold Medal from the Prime Minister Shri Lal Bahadur Shastri.

<i>Sr. No.</i>	<i>Name</i>	<i>Position</i>	<i>Date</i>
9.	Dr. Marguerite Scruggs	Professor and Head, Home Economics, Education Department, College of Economics, Iowa State University, Ames Iowa, U.S.A.	17-12-1964
10.	Dr. Matties	Project Chairman Visiting Professor	17-12-1964
11.	Professor & Mrs. O. F. Mathiasen	—	21-1-1965 to 24-1-1965
12.	Mrs. Dorothy Heathcote	Staff Tutor in Drama Durham, U.K.	23-1-1965
13.	Shri Manubhai Pancholi	Social Worker	29-2-1965
14.	Dr. John P. Lipkin	Professor, Michigan University	23-4-1965

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

1. Courses of Study

The school continued to follow the syllabi and the courses prescribed by the Department of Education, Gujarat State and the courses and syllabi of the S.S.C. Examination Board, Gujarat State. The courses provided this year in the S.S.C. Examination Class were Gujarati, Hindi, English, Music, Sanskrit, General Science, Social Studies, Algebra-Geometry, Physics and Chemistry, Physiology and Hygiene and Geography.

2. Number of Students

	Boys	Girls	Total
Primary : I to IV	77	65	142
Secondary : V to XI	161	130	291
Total	238	195	433

3. Staff

The school had 10 graduate trained teachers, 2 under-graduate teachers in the Secondary section and 4 special teachers, one each for Music, Art, Physical Education and Library and 4 undergraduate teachers in the Primary section. The office had one Senior Clerk and 2 Clerks and 1 Laboratory Assistant. The number of Class IV servants was 2 for the Primary section and 5 for the Secondary section.

4. Library

The Library provision is adequate considering the present needs of the school though there is room for improvement. To the existing stock of 12,000 books in the library, 300 books costing Rs. 1300/- were added during the year. The school has continued to subscribe to 29 magazines and periodicals of proved educational merit. This year "Experiment in Education", "Jankalyan", "Purodha" and "Vigyan Bandhu" were added to the original list of periodicals.

5. School Laboratory

The details are as under:

Sr. No.	Item	Cost of equipment as on 1-4-1965	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1965
		Rs.	Rs.	Rs.	Rs.
1.	Laboratory	8,843-80	—	146-58	8,990-38

6. Publications by the Members of the Staff and Students

Sr. No.	Article	Written by	Magazine
1.	Experiment in English Teaching	Kumari R. M. Tachakra	'Experiments in Education'
2.	ભાગ્ય તે ભાગ્ય-લેખક : ૩ :	Shri M. M. Chokshi	Nutan Shikshan
3.	Space travel and its problems	Chi. Kiran Parikh of Std. X	Vigyan Bandhu
4.	Chemistry in Service of Humanity	Chi. Kiran Parikh of Std. X	Vigyan Bandhu

7. Experiments and Activities

(1) Project Studies:

The teachers of the School carried out twelve project studies on different subject in different classes during the year.

(2) Current Topic Discussions:

The students collected material from Newspapers, periodicals, persons etc. and prepared reports, charts etc. Reports on two topics were discussed in the school assembly.

(3) Science Club:

The Science club participated in the science fairs organised at Dabhoi by the Department of Education and at Baroda by the Department of Extension Services, Faculty of Education and Psychology and won prizes for models, essays and debates.

(4) Art (Literary Writing):

A new hobby, literary writing, was introduced this year to provide opportunities for literary expression and to discover budding talent.

(5) Extra Examinations:

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 obtained good results at the examinations. They participated in various Painting and Art and other competitions and exhibitions, and got prizes for group songs, recitations, debates, etc.

(6) Tours:

Students of different classes were taken on tour to various places such as

Dabhoi, Dakor, Galteshwar, Shuklatirth and Kabirwad, Pavagadh, Chandod-Karnali, Dabhoi, Ankleshwar Oil Field-Bardoli and Kakrapar.

8. Other Activities

(i) 10 children accompanied by Sarvashri M. M. Chokshi and S. R. Patel participated in 14th Annual Conference (for the United Nations) and All India School Festival held in October, 1964 at New Delhi. The school secured a trophy.

(ii) School children gave a programme in the children section "Rang Rang Vadalia" of AIR on 18-10-1964.

(iii) The School N.C.C. participated in the camp at Gurukul Supa.

(iv) Children presented a cultural programme at the All India Economic Conference.

9. Other Important Events and Achievements

(1) Chi. Aparna M. Patel stood first among the successful candidates at the S.S.C. Examination of March, 1964, Gujarat State.

(2) The Experimental School stood first in the group dance item of the cultural programme given at the 14th Annual Conference and All India School Festival organized by the United Schools Organisation of India (United Nations) at New Delhi. Schools from 14 States of India participated.

(3) In the School Children Art Exhibition organised by UNESCO and held at Tokyo, Chi. Parul Hathi was one of the two children who secured gold medals won by India.

(4) In 'Shreya Sadhak Mitra Mandal' elocution art competition Chi. Vibhuti Desai of Class IX secured the trophy by securing the first prize for three consecutive years.

(5) Chi. Nikhil Dalal secured the first prize in the essay competition (વર્ણન પ્રર્ણ) organised by the State Government Forest Department.

(6) The School celebrated Parichay Din, Physical Education Day, Tilak Anivarsary, Shardostav, Gandhi Jayanti, Childrens' Day, National Days, Annual Day, etc.

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 under:

Class	Men	Women	Total
Diploma in Co-operation (Under-graduate)	—	3*	3
F.Y.B.Com.	332	25	357
S.Y.B.Com.	376	11	387
T.Y.B.Com.	349	14	363
Post-graduate Diploma in Banking	17	2	19
Post-graduate Diploma in Co-operation	4	1	5
Junior M.Com.	32	1	33
Senior M.Com.	23	—	23
Ph.D.	1	1	2
Total	1134	58	1192

* This excludes 8 men students and 2 women students of S.Y.B.Com. Class who have been permitted to join the Under-graduate Diploma course in Co-operation also.

3. Staff

During the year, the staff of the Faculty consisted of 8 Readers, 13 Lecturers, 3 Part-time Professors and 3 Part-time Lecturers, 6 Class III and 11 Class IV Servants. The teaching work in the subjects of English, Mercantile Law, Mathematics and Statistics was looked after by the English, Law, Mathematics and Statistics Departments respectively. Some teachers of this Faculty were taking periods in the Faculty of Technology and Engineering and Polytechnic.

4. Publications by the Members of the Staff

Articles:

Sr. No.	Name	Subject of the Article	Name of the journal wherein published with month of publication
1	2	3	4
1.	Dr. D. K. Shukla	An Analytical Study of Inflationary Pressure in India	Journal of the M. S. University of Baroda, July, 1964
2.	Dr. H. P. Chokshi	(i) Concept of Corporation	Journal of the M. S. University of Baroda, July, 1964
		(ii) Problem of Black Money- Part I	Financial Express, 15th October, 1964
		(iii) Problem of Black Money- Part II	Financial Express, 15th October, 1964
3.	Shri J. Y. Diwanji (jointly with Professor B. G. Shah of Management Institute, Ahmedabad)	(i) Capital Issues Control in India, 1943-62	Journal of the M. S. University of Baroda, July, 1964
		(ii) Branch expansion of Banks in India 1951-60	Journal of Indian Commerce, September, 1964

5. Literary, Cultural and Other Activities

Under the programme of the extension work by the University teachers, the following members of the staff gave the extension lectures during the year:

	Name of the teacher	Subject	Place
i.	Shri K. R. Shah	Our Five Year Plan	Bharti Vidyalaya
ii.	Shri C. S. Rathod	Co-operative Marketing in India	Gramsevika Training Centre
iii.	Shri C. D. Amin	Our Taxation Policy	Dandia Bazar

6. Co-curricular Activities

Besides the Faculty Students Association, the students of this Faculty organised the following associations and societies. They arranged talks, debates and essay competitions.

(i) Economic Students' Association, (ii) Banking Students' Association, (iii) Accountancy Students' Association, (iv) Co-operation Students' Association, (v) Commerce Society and (vi) Business Administration Students' Association.

7. Other Important Events

The Dena Bank Trophy Debate was held on the 25th September, 1964 under the Chairmanship of the Vice-Chancellor, Dr. C. S. Patel. Sir K. P. College of Commerce, Surat, carried away the trophy.

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

(3) The Faculty participated in the Drama and Garba competitions for the 14th University Youth Festival and won the third prize in Drama. The Faculty Team was the Inter-Faculty Champion in Cricket for the year 1964-65.

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

	Subject
M.D.	Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Pharmacology, Physiology
M.S.	Anatomy, E.N.T., Orthopaedics, Surgery
Ph.D.	Biochemistry, Pathology, Pharmacology, Physiology
M.Sc.	Anatomy, Biochemistry, Pathology, Pharmacology Physiology

(2) Diploma

	Subject
D.G.O.	Diploma in Obstetrics and Gynaecology
D.O.	Diploma in Ophthalmology
D.A.	Diploma in Anaesthetics
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 Electrolgy
D.Ped.	Diploma in Paediatrics

Most of these have been inspected and recognised by the Medical Council of India. The new Psychiatric Department has been started in February, 1965. The hospital has several units with a total bed strength of 700, for purposes of providing clinical instruction to students.

2. Number of Students

(1) Degree—M.B.B.S.

	Men	Women	Total
1st Year			120
2nd Year	96	24	131
3rd Year	101	30	76
4th Year	62	14	52
5th Year	42	10	82
	66	16	
Total	367	94	461

(2) Post-graduate Degrees

	Men	Women	Total
M.D. (Medicine)	33	1	34
M.D. (Path.)	2	1	3
M.D. (Pharma)	—	1	1
M.D. (O.G.)	18	13	31
M.S. (Sur.)	30	—	30
M.S. (Ortho.)	3	—	3
M.Sc. (Pharma.)	19	4	23
M.Sc. (Physio.)			
M.Sc. (Patho.)			
Ph.D.	3	—	3
Total	108	20	128

(3) Post-graduate Diplomas

	Men	Women	Total
D.L. & O.	9	—	9
D.V. & D.	1	—	1
T.D.D.	3	—	3
D.C.P.	6	—	6
D.G.O.	8	10	18
D.O.	3	—	3
D.A.	4	1	5
D.Ped.	10	3	13
D.M. & R.E.	1	—	1
Total	45	14	59
Grand Total	520	128	648

3. Staff

The staff of the College and Hospital consists of a Dean, 13 Professors, 8 Assistant Professors, 35 Senior Lecturers, 28 Junior Lecturers, 11 Honoraries, 15 Assistant Honoraries, 7 Full Time Specialists, 1 Matron, 1 Full Time Medical Officer, 1 Resident Medical Officer, 2 G.M.S. Class II, 33 Class III and 47 Class IV Servants.

4. Library

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

Sr.No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals as on 1-4-1964)	10,121	1,64,290=22
(2)	Books written off during the year	—	—
(3)	Books added during the year	301	4,905=97
(4)	Books as on 31-3-1965	10,422	1,69,196=19
(5)	Journals subscribed during the year	131	9,746=20
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for Library and/or Reading Room during the year	—	14,652=17

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

Sr. No.	Item	Cost of equipment as on 1-4-1964	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on 31-3-1965
		Rs.	Rs.	Rs.	Rs.
1.	Museum	3,24,093	141	—	3,23,952
2.	Laboratories	8,46,913	5,816	77,094	9,18,191
3.	Studios	13,483	—	—	13,483
	Total	11,84,489	5,957	77,094	12,55,626

6. Publications

Twenty two articles have been published by teachers of this College and attached Shree Sayaji General Hospital, Baroda. Several departments have various research schemes under them in progress. Besides, 12 Research Fellows are working under various teachers of the College and Hospital, under the scheme of award of Research Fellowship by Government. Research schemes sponsored by the M. S. University, Indian Council of Medical Research, Council of Scientific and Industrial Research, University Grants Commission etc., are also under progress.

7. Literary, Cultural and Other Activities

(1) The Medical College participated in the University Week Celebrations in December, 1964 and one of its students obtained the first prize in indi-

vidual acting. The college also participated in the Inter-Faculty tournaments and won prizes.

(2) Three students of this college were selected to represent the University in the Inter-University Youth Festival at Delhi.

(3) The College students won the M. N. Wadia Trophy Debate.

8. Other Important Events

(1) The inspectors of the Medical Council of India, New Delhi inspected the post-graduate examination in Orthopaedics held in October, 1964.

(2) The quinquennial inspection of examinations of M.B.B.S. was done during October, 1964 by the Inspectors of the Medical Council of India, New Delhi and Inspectors from Gujarat Council, Ahmedabad.

(3) The Symposia on the following subjects were arranged during the year:

(i) Abdominal Pain (Department of Surgery)

(ii) Jaundice (Department of Medicine)

(4) Following two lectures were delivered:

(i) Dr. S. J. Mehta 11-10-1964 Some Aspects of Biliary Diseases

(ii) Dr. E. B. Borges 12-10-1964 Pitfalls in Diagnosis of Cancer

(5) The following Medical Officers of the College were deputed to Edinburgh on W.H.O. Fellowship for higher training and post-graduate studies:

(i) Dr. G. L. Purohit of the Physiology Department

(ii) Dr. P. M. Trivedi of the Surgery Department

(iii) Dr. R. V. Bhatt of the Obstetrics and Gynaecology Department.

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, one Chemist, one Statistician, one Research Assistant in Chemistry, four class III and seven Class IV servants. Dr. A. D. Joseph, Dean of the Medical College, Baroda, worked 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 Rasa-shala 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 21 new books have been added bringing the total to 2618 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 of Charaka are arranged in this Museum. Specimens of minerals and other useful drugs have also been kept. A section of collected literature-cum-publications of the Unit and a section of Ayurvedic Pharmacopoeial medicines is also arranged. There are about 1000 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 30,807 patients attended the Unit for treatment.

(2) In-patient Departments:

Clinical research: 24 patients were admitted and studied during the year.

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

(i) Amavata-Sandhivata: Under this scheme a study of the treatment of Rheumatoid Arthritis with pure Guggul alone, was carried out. 15 cases were

studied particularly for observing the Anti-inflammatory and Analgesic effect of Guggul on the affected joints. It has been observed that Guggul is a slow acting drug and the Anti-inflammatory as well as the Analgesic effect of the drug starts after 15 days of administration of the drug. A detailed paper on these cases has been prepared and is ready for publication.

(ii) Effect of Bharanga-mools of Kasa=(Bronchitis) as respiratory sedative: 300 cases were studied and the paper incorporating these observations has been prepared and is ready for publication. As suggested in the sub-committee, 31 cases are further studied with placebo. The work is in progress.

(B) Research in the Fundamental theories of Ayurveda:

(i) The work of Vipaka-experiments is completed. A research paper on Vipaka-experiments has been prepared and is ready for publication.

(ii) The work of Prakriti Vinischaya is in progress. 5 individuals are examined and studied under this scheme.

(C) Pharmacological Research:

(i) Antidiabetic Activity of "Salabcein":

With low doses (50 mg. 80 mg./kg.) alloxan did not produce hyperglycemia (200 mg./100 ml.) and with higher doses (90-115 mg./kg.) recommended in literature, there was a high rate of mortality in albino rats ($n = 118$). The programme of assessing the anti-diabetic activity of "Salobcein Tablets" in alloxan diabetic rats was, therefore, given up. Work with dogs rendered diabetic with alloxan (reversible type of diabetes) is in progress.

(ii) Chemistry of *Mimosa Pudica* Linn:

Using separation method of Rogar Adams (J. Am. Chem. Soc. 67 89-92 1945) for leucenol, presence of momosine in absolute alcohol extract of dry roots of *Minosa Pudica* Linn. could not be established. The dry water extract of plant contained sodium 2.9% potassium and calcium 1.6%. The plants also contain tennins and saponins. Pharmacological work with the plant extract is to be started.

The investigation of the Antipyretic and analgesic activities of *Aconitum spicatum*, *Staps* and *cassia fistula* Linn. was completed and the paper is accepted by Archint. Pharmacodyn for publication.

6. Garden

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

7. Publications

Sr. No.	Name of the contributors	Title of the paper	Name of the journal wherein published
1.	Vaidya M. K. Brahmbhatt	(i) कासमर्द	वैद्य कल्पतरु
		(ii) श्वासनी शोधन चिकित्सा	वैद्य कल्पतरु
		(iii) ज्वरनी पथ्यानचिकित्सा (आयुर्वेद अने आधुनिक द्रष्ट्या)	आयुर्वेद जगत
		(iv) Evaluation of leech application in joint pains	Nagarjun
		(v) Evaluation of leech application in anaesthetic patches of Leprosy	Nagarjun
		(vi) Cancer of the Rectum	Nagarjun
		(vii) गृध्रसी मे जलौकावचारण का मुल्यांकन	आयुर्वेद महासंमेलन पत्रिका
		(viii) प्लीहादर-उपद्रव रक्तपित्त जलोदर	वैद्य कल्पतरु
		(ix) ग्रहणी रोग वातज	आयुर्वेद जगत
2.	Vaidya D. K. Pathak	प्रवाहिकानी संप्राप्ति अने वदवच्छेदक निदान	आयुर्वेद जगत

CHAPTER XIII—FACULTY OF TECHNOLOGY AND ENGINEERING

1. Courses of Studies

The Faculty provides for the following courses:

- (i) M.E. Civil, Mechanical and Electrical Engineering
- (ii) B.E. in Civil, Mechanical and Electrical and Chemical Engineering
- (iii) M.Textile Engineering and B. Textile Engineering and Textile Technology
- (iv) B.Arch. in Architecture
- (v) Diploma in Textile Chemistry and Textile Technology

The post-graduate degree courses in Production Engineering, Structural Engineering and Textile Engineering and the Five Year Integrated Degree course in Civil, Mechanical and Electrical Engineering were started during the year 1964-65

2. Number of students

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

(1) Diploma:

Year/Class	Men Students	Women Students	Total
Textile Chemistry I Year	39	—	39
Textile Chemistry II Year	37	—	37
Textile Chemistry III Year	52	—	52
Pre-Textile Technology	27	—	27
Textile Technology Ist Year	40	—	40
Textile Technology IInd Year	30	—	30
Textile Technology IIInd Year	30	—	30
Total	255	—	255

(2) Degree:

B.E. (Civil)	122	1	123
F.E. (Mechanical)	99	—	99
F.E. (Electrical)	99	—	99
F. Text. Engg.	30	—	30
F. Text. Tech.	30	—	30

Year/Class	Men Students	Women Students	Total
S.E. (Civil)	132	—	132
S.E. (Mechanical)	87	—	87
S.E. (Electrical)	99	—	99
S. Text. (Engg.)	17	—	17
S. Text. Tech.	13	—	13
T.E. (Civil)	117	2	119
T.E. (Mechanical)	103	—	103
T.E. (Electrical)	71	—	71
T. Text. Engg.	17	—	17
T. Text. Tech.	9	—	9
B.E. (Civil)	113	2	115
B.E. (Mechanical)	170	—	170
B.E. (Electrical)	79	—	79
B.Text. Engg.	17	—	17
B. Text. Tech.	9	—	9
B. Chem. Engg. I Year	40	—	40
B. Chem. Engg. II Year	40	—	40
B. Arch. I Year	39	4	43
B. Arch. II Year	49	6	55
B. Arch. III Year	44	6	50
B. Arch. IV Year	49	3	52
B. Arch. V Year	39	4	43
Total	1733	28	1761

(3) *Post-graduate Degree:*

M.E. (Civil) Advanced Irrigation and Hydraulic	2	—	2
M.E. (Civil) Highway and Bridge	1	—	1
M.E. (Civil) Public Health Engg.	3	—	3
M.E. (Civil) Soil Mechanics and Foundation Engg.	7	—	7
M.E. (Civil) Structural Engg.	7	—	7
M.E. (Mechanical)	18	—	18
M.E. (Electrical)	11	—	11
M. Text. Engineering	3	—	3
Total	52	—	52

(4) *Government of India Technical**Teachers Trainees:*

Year/Class	Men Student	Women Student	Total
Civil	6	—	6
Mechanical	7	—	7
Electrical	4	—	4
Total	17	—	17
Grand Total	2057	28	2085

3. **Staff**

During the year the staff of the Faculty consisted of 11 Professors, 25 Readers, 60 Lecturers, 2 Part-time Lecturers, 35 Senior Instructors, 3 Junior Instructors, 18 Demonstrators, 5 Tutors, 115 Class III and 76 Class IV Servants.

4. **Library**

Several books have been acquired by the Library during the year 1964-65 and the total value of the books and periodicals is Rs. 3,77,580-42 upto the end of March, 1965.

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

Sr. No.	Item	Cost of equipment etc. as on 1-4-1964	Cost of equipment written off during the year	Cost of equipment etc. added during the year	Cost of equipment etc. as on 31-3-1965
		Rs.	Rs.	Rs.	Rs.
1.	Laboratories, Work-shops, Studios, etc.	36,14,278-36	3,981-44	72,833-00	36,83,129-92

6. **Publications by the members of the Staff :—**

	Name	Title	Name of the publishers with month of publication
1	R. C. Patel and A. D. Pandya	Machine Design Sixth edition in M.K.S. Units	Acharya Book Depot, Baroda, February, 1965
2	R. M. Dave	Hydraulics & Fluid Mechanics Part I (M.K.S. Units)	Acharya Book Depot, Baroda, January, 1965
3	T. N. Joshi and R. T. Shah	Design of Machine Elements	M. C. Kothari August, 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 were arranged. Students of this Faculty took part in various Inter-Faculty, Inter-University and other debating and elocution contests. Apart from the usual activities, Citizen Debate, Mock Parliament, Mushaira, etc. were also arranged from time to time. During the last year the following laurels were won by the students of this Faculty in Inter-University and other national contests.

- (i) First and Second Prizes at the Gujarat State Arts Exhibition.
- (ii) First and Third Prizes and Trophy at the Inter-University Debate in English held at Pilani.
- (iii) Trophy in the Inter-University Debate in Hindi held at Delhi.
- (iv) Four stars in competitions held at the 8th convention of National Association of students of Architecture at New Delhi.

The Students' Chapter of the Institution of Engineers India was also active. During the academic year, the Chapter arranged an educational tour to visit the Koyali Refinery. The students also organised an Essay competition for the B.E. (CME) students and six prizes were given to students standing first and second in each branch of engineering.

8. Co-curricular Activities

(1) *Excursions and tours:*

The students of M.E., the final year Engineering and Textile Degree and Diploma classes, second, third and fourth year of Architecture degree classes were sent out on educational tours of their respective interest.

(2) *Exhibition of Educational Films:*

The Faculty has a stock of 23 films on various subjects of educational interest and also 14 strips of 35 mm. films. Every year additional films are taken on loan for use from various organisations. 32 films were shown during the year at the Faculty.

(3) *Co-operative Stores:*

The working of the Store was satisfactory. The total sale during the year amounted to Rs. 15,842/-.

9. Other Important Events

(1) The Faculty takes keen interest in organising summer schools in specialised fields. The Summer Schools on (i) Internal Combustion Engineer-

ing and (ii) Prestressed Concrete were organised this year. The participants were selected from educational institutions and industries throughout India. Both these programmes were financed by the University Grants Commission.

(2) The Government of India have sanctioned non-recurring grant of Rs. 19,58,300/- and recurring grant of Rs. 4,63,100/- per annum for the 5 year Integrated Degree Courses in Engineering. The State Government have agreed in principle to the introduction of these courses and have approved total recurring matching grants of Rs. 4,67,728 as their share.

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:—

Class	Men	Women	Total
(1) <i>Certificate:</i>			
First Year	3	—	3
Second Year	4	—	4
Total	7	—	7
(2) <i>Diploma:</i>			
First Year	26	1	27
Second Year	15	6	21
Third Year	14	—	14
Fourth Year	10	2	12
Total	65	9	74
(3) <i>Post-Diploma:</i>			
Junior	3	—	3
Senior	2	—	2
Total	5	—	5
(4) <i>Degree:</i>			
Preparatory	18	9	27
First Year Specialization	8	1	9

	Men	Women	Total
Second Year Specialization	11	1	12
Third Year Specialization	9	3	12
Total	46	14	60
(5) <i>Post-graduate Degree:</i>			
Junior	3	—	3
Senior	3	—	3
Total	6	—	6
(6) <i>Post-graduate Diploma:</i>			
Junior	3	2	5
Senior	7	1	8
Total	10	3	13
(7) <i>Non-Collegiate</i>			
Government Scholars and Foreign Scholars	17	4	21
Grant Total	156	30	186

3. Staff

During the year the staff consisted of 3 Professors, 5 Readers, 17 Lecturers, 1 Part-time Photographer, 1 Demonstrator, 2 Tutors, 1 Technical Assistant, 1 Taxidermist, 2 Technicians, 1 Part-time Instructor, 6 Class III and 17 Class IV Servants.

4. Library

(1) Acquisition Note:

(A) Books:

The Library received a grant of Rs. 3,000/- from the University as usual and it has been fully utilised. In addition an amount of Rs. 2,528-21 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.

Noteworthy acquisitions during the year were great drawings of all time ed. by Ira Moskowitz, 4 Volumes. The Predella from the XIIIth to the XVIth centuries by Roberto Salvini and Leone Traverso.

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

	Books (including back No. of journals)	Pamphlets	Total value in Rs.
Number at the beginning of the year	3,885	94	61,863-72
Number added during the year	323	—	5,526-71
	4,208	94	67,390-43
Number withdrawn from the record	—	—	—
Number remaining at the end of the year	4,208	94	67,390-43

(B) Periodicals:

The total number of periodicals and scholarly journals subscribed to now stands at 20. The total amount spent for the subscription of periodicals is Rs. 996-08. The total amount spent for binding is Rs. 370-90.

(2) Circulation of Books etc.:

The working hours of the library were from 11 a.m. to 5 p.m. on all working days and from 11 a.m. to 3 p.m. on Saturdays.

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

(i) Average number of students making use of Library	40
(ii) Average number of Teachers making use of Library	20
(iii) Average number of books issued per day for home reading (issued only to staff members and Post-graduate students)	22
(iv) Total average number of books issued per day for reading on the premises	65

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

Sr. No.	Item	Cost of equipment as on 1-4-1964	Cost of equipment written off during the year	Cost of equipment added during the year	Cost of equipment as on 31-3-1965
		Rs.	Rs.	Rs.	Rs.
1.	Studios, Workshops, Painting, Sculpture and Applied Arts	2,30,169-50	41-06	9,316-92	2,39,445-36
2.	Museology	48,904-54	—	9,664-55	58,569-09
	Total	2,79,074-04	41-06	18,981-47	2,98,014-45

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. Mulk Raj Anand, Tagore Professor of Art and Literature, Chandigarh	1	Seven Little known Birds or the Inner Eye or How to eat a picture.
2. Mr. Isamu Akino, Wellknown Japanese Origami	1	Paper Fold Sculpture
3. Mrs. Meher R. Contractor R.D.S. (London) of Ahmedabad	1	Puppetry

7. Co-curricular Activities

(1) The Faculty arranged a study tour to Abu Road and Modhera from the 22nd December, 1964 to the 1st January, 1965. Staff members and students participated.

(2) An Exhibition of African Artists was arranged from the 1st to the 4th August, 1964 in the Exhibition Hall of this Faculty.

(3) An Exhibition of Serigraphs (Silk Screen) by Miss Demi Hunt was arranged from the 18th to the 21st August, 1964 in the Exhibition Hall of the Faculty of Fine Arts.

(4) An Exhibition of Modern German Graphic Arts was organised from the 12th to the 19th September, 1964 in the Exhibition Hall of this Faculty.

(5) An Exhibition of Saurashtra Folk Embroidery was arranged from the 25th to the 27th September, 1964 in the Exhibition Hall of this Faculty.

(6) An Exhibition of Photographs by Mr. Alfred titled "Indian Face" was arranged under joint auspices of German Language Society and the Faculty of Fine Arts from the 7th to the 13th October, 1964 in the Exhibition Hall.

(7) An Exhibition of the works of Professor Jack C. Davis, Fulbright Professor on Painting, was arranged from the 8th to the 11th March, 1965 in the Exhibition Hall of this Faculty.

8. Other Important Events

(1) A talk with slides by Miss Demi Hunt of Immaculate Heart College, Los Angeles, Guest Artist of the Faculty of Fine Arts on the subject 'Art as a way of working' was arranged on the 22nd August, 1964 in the Exhibition Hall of this Faculty.

(2) A lecture of Shri Haku Shah on "Folk Art" with slides was arranged on the 13th March, 1965 in the Exhibition Hall of this Faculty under the Extra Mural Grant.

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 Textile |
| | | (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 |

2. Number of Students

Year/Class	Students		
	Men	Women	Total
(1) Degree B.Sc. (Home):			
(a) First Year	—	159	159
(b) Second Year	—	138	138
(c) Third Year	—	92	92
(d) Fourth Year	—		
Child Development Major		14	
Foods and Nutrition Major		14	
Clothing and Textile Major		19	
Education and Extension Major		13	
Home Management Major		19	
General Home Science Major		37	116
Total			505
(2) Post-graduate Diploma:			
P. G. Diploma in Nursery School Education		1	1
(3) Post-graduate Degree M.Sc. (Home):			
(a) Junior M.Sc. (Home)			
(i) Child Development Major	—	5	
(ii) Foods and Nutrition Major	—	12	
(iii) Clothing and Textile Major	—	1	
(iv) Education and Extension Major	—	5	
(v) Home Management Major	—	4	
			29

Years/Class	Students		
	Men	Women	Total
(b) Senior M.Sc. (Home)			
(i) Child Development	—	9	
(ii) Foods and Nutrition	—	12	
(iii) Clothing and Textile	—	7	
(iv) Education and Extension	—	3	
(v) Home Management	—	8	
		—	39
(4) Ph.D.:			
Foods and Nutrition	1	1	2
Total			576

3. Staff

The staff of the Faculty consisted of 2 Professors, 1 Honorary Professor, 5 Readers, 24 Lecturers, 17 Demonstrators, 2 Tutors, 12 Class III and 25 Class IV Servants.

The Faculty continued to receive the help of the staff of the other Faculties for teaching various courses.

Five Visiting Professors under Ford Foundation Project in each field of specialization are teaching and conducting various research scheme at the post-graduate level.

4. Library

The Faculty Library is amalgamated with Shrimati Hansa Mehta Library from this year and the students of this Faculty are now making use of that Library. All the departments are maintaining their own small libraries which contain reference books and other books which are of daily use to the staff and students of this Faculty.

5. Publications

(a) Foods and Nutrition Department:

(1) Effect of fenugreek supplementation to rice and dehusked blackgram on the growth rate and body composition of albino rats, *Ind. J. Biochem. L.* 1964, p. 104.

(2) Ascorbic acid intake of poor families in Baroda with particular reference to vegetables used and cooking procedures, *J. Ind. Dietetic Assn.*, 1964.

(3) Effect of cooking procedures on the free and total Niacin content of certain foodstuffs, *J. Nut. and Diet.*, 1964.

(4) Ascorbic acid content of tissues in rats fed different protein diets, *Ind. J. Exptl. Biol.* 1964.

(5) Review on Ascorbic acid metabolism. *Medical digest*, Dec. 1964.

(6) Results of various diet and nutritional surveys in Gujarat. *J. Ind. Diet. Assn.*, December, 1964.

(b) Child Development Department:

A survey of Institutions teaching and conducting research in Child Development—M. S. University Press.

6. Literary, Cultural and Other Activities

(1) Under the University Grants Commission Scheme of Exchange of teachers and experts between the Universities, Dr. S. K. Mitra of the Department of Psychological Foundations, Delhi and Professor Bagchi of the Indian Institute of Public Health and Hygiene, Calcutta were invited to deliver lectures in the Department of Child Development and the Department of Foods and Nutrition respectively.

(2) Nine teachers of the Faculty delivered extension lectures under the University Grants Commission Scheme of Extension work by University Teachers.

(3) The following well-known Scientists who had come to attend the Tissue Culture Seminar in January, 1965 delivered lectures on various topics.

- (i) Professor John Paul of Glasgow University
- (ii) Professor Hajim Katsuta of Tokyo University
- (iii) Professor Hiroyoshi Endo of Tokyo University
- (iv) Dr. Murray D. Rosenberg of Rockefeller Institute, New York
- (v) Professor L. G. Lajtha of Manchester
- (vi) Professor H. L. Kornberg of Leicester University
- (vii) Professor C. H. Waddington of Edinburgh
- (viii) Professor E. J. Ambrose of Chester Beatty Research Institute, London

(4) The Departments of: (i) Child Development, (ii) Foods and Nutrition and (iii) Home Management arranged educational tours to various places of their interest during the Christmas Vacation.

(5) The Departments of: (i) Education and Extension and (ii) Clothing and Textile arranged exhibitions of: (i) the articles made by the adults and (ii) 'Traditional Indian Embroidery' respectively.

(6) The following Seminars were organised under the auspices of the University and the University Grants Commission during the year.

(i) "All India Home Science Curriculum" at Bombay in October, 1964.

(ii) "Inter Disciplinary Research in Child Development and family Relations" at Baroda in March, 1965.

(7) The Faculty published its Annual Magazine this year also.

7. 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 support, buildings, equipments, etc. Five Visiting Professors from U.S.A.—one for each of the 5 specialisations—are doing teaching and research work at the Faculty. Selection was made on an all Indian basis and a batch of 6 trainees (4 for Ph.D. for clothing and Textiles, Foods and Nutrition, Home Management and Child Development and one for M.S. in Home Management and one for special Project in Home Management were sent to Iowa State University under the Ford Foundation Programme.

17 Post-graduate fellowships of Rs. 1,500/- per annum each and 4 under-graduate scholarships of Rs. 1,200 per annum each were awarded during the year and 21 Post-graduate fellowships and 13 under-graduate scholarships which were awarded in previous years were continued during the year.

Dr. Douglas Ensminger, Ford Foundation Representative in India, Dr. Scruggs and Miss M. Liston of the Iowa State University and Dean Le Baron of the Home Economics Department of Iowa State University, U.S.A. visited the Faculty and discussed many problems pertaining to the Project and development of the Post-graduate studies and research in the various Departments of the Faculty of Home Science.

8. Chetan Balwadi

The Chetan Balwadi serves as a laboratory and practising school for the students of the Faculty of Home Science. The Child Development Department conducts the nursery section for children between the ages of 2 and 5 years. The number of children in the Balwadi and Kindergarten is as under:

	Boys	Girls	Total
(i) Kindergarten	14	11	25
(ii) Chetan Balwadi	32	28	60
Total	46	39	85

9. Gram Sevika Training Centre

The Centre has been continued this year by the Government of Gujarat to organise the refresher courses of two months duration for the Gram Sevikas deputed by the Government. The centre conducted five refresher courses in the months of April-June, July-August, September-October, November-January and February-March and trained 84 gram sevikas during the year under report. The Centre expended the amount of Rs. 30,090/- for the conduct of these courses.

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*

Looking to the increase in the demand of trained workers for correctional field, it was felt necessary to introduce an additional course in Criminology and Penology as of the academic year under report.

(2) *Field Work (Practical Training)*

There are about twenty agencies co-operating with the Faculty and participating very actively in providing learning experiences for the students. The Faculty took initiative and established the following agencies with the 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 6 to 7 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.

(ii) *Fatehgunj Samaj Kalyan Kendra:*

During this academic year 8 students were placed in the Centre for their field work experiences.

(iii) *Mental Hygiene and Psychiatric Clinic:*

Since its establishment in July, 1952, the Clinic registered 4033 cases upto the 31st March, 1965. During the year, services were rendered to 606 cases as against 688 cases last year. 572 were new cases registered during the year and 25 cases were carried forward from the previous years and 9 cases were reopened during the year. Those cases which needed special investigation by the clinical psychologist were seen by the clinical psychologist. The treatment methods used were: physical therapies, case work treatment, counselling and psychotherapy. Because of several limitations, including the level of motivation and capacity of the patients, only 304 patients out of total of 606 were accepted for treatment. Of these 304 cases, 160 showed improvement. Another 85 cases which were

referred for limited purpose e.g. diagnostic evaluation or supportive help for chronic mental conditions were given this limited treatment.

A seminar on 'Mental Hygiene in the School' was organised from the 1st to the 6th June, 1964. Delegates from eleven high schools of the city participated in the seminar. The topics discussed were areas of mental hygiene in the school, mental health and educational problems of the high school children, emotional needs of adolescent boys and girls and the role of teachers and school management in the promotion of positive mental health of the child.

(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.

2. Number of Students

The number of students enrolled in the Junior and Senior classes at the commencement of the year 1964-65 was as under:

Class	Men	Women	Total
Senior Class	24	10	34
Junior Class	33	9	42
	57	19	76

3. Staff

The staff of the Faculty consisted of 2 Professors, 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 Lecturer, 1 Part-time Psychiatrist, 1 Part-time Clinical Psychologist, 1 Class III and 1 Class IV Servants.

4. Library

(1) *Acquisition Notes:*

(A) *Books:*

The Faculty has a separate library of its own and maintains it from the grant that is received from the University for the purpose. This year a grant of Rs. 3,000/- was received for books and periodicals and a grant of Rs. 1,000/- for educational films.

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

	Book (including bound periodicals)	Pamphlets	Total value in Rupees
Number at the beginning of the year	5596	1110	44,059=94
Number added during the year	208	200	2,999=80
Number written off	—	—	—
Number remaining at the end of the year	5804	1310	47,059=74

(B) Periodicals:

The total number of periodicals and scholarly journals subscribed for during the year stands at 76. About 85 volumes of bound periodicals were added to the stock during the year. Rs. 1,290-93 were spent for subscription, etc. while Rs. 995-35 for films.

(2) Circulation of Books:

The Library remains open from 9-00 a.m. to 8-00 p.m. on week days and from 9-00 a.m. to 3-00 p.m. on Saturdays. During examination period the Library is kept open even on Sundays and holidays so as to enable students to prepare better for the examination.

The statistics of the use of Library are as follows:

(i) Daily average number of readers visiting the Library	65
(ii) Daily average number of teachers visiting the Library	10
(iii) Average number of books issued per day for home reading	55
(iv) Average number of books issued per day for reference reading	50

5. Publications by the members of the Staff

The following papers and/or articles were published by the members of the staff during 1964-65.

Name of the Teacher	Title of Paper/Article	Name of the Journal where in published with month of publication
1	2	3
Professor G. G. Dadlani	(i) The Juvenile Court—Its Philosophy and Function (ii) The Conflicts of Adolescent Students in Relation to Parental Norms	The Report of the Seminar on Correctional Services—January, 1965 Seminar Report—Inter-Disciplinary Research Seminar on Child Development and Family Relations—March, 1965

1	2	3
Kumari I. M. Patel	(i) Supervision—Its Concept and Application (ii) Community Participation in Prevention of Juvenile Delinquency (iii) Nature and Content of Field Work in Social Group Work Method	‘ Bharat Sevak,’ January, 1965 The Report of the Seminar on Correctional Services—January, 1965 Seminar Report—Association of Schools of Social Work—March, 1965
Shri S. K. Majmudar	Nature and Content of Field Work in Psychiatric Social Work	Seminar Report—Association of Schools of Social Work—March, 1965
Shri S. R. Ramdev	Some Reflections on the Administrative and Political set-up Under Panchayati Raj	Inter-University Seminar Report Community Development and Change—October, 1964
Shri H. R. Chaturvedi	(i) Teaching of Public Welfare Administration (ii) Probation Services (iii) Voluntary Action in a Welfare State (iv) The Field Work Contents in Correctional Administration	The Indian Journal of Social Work, Vol. XXV, No. 3, October, 1964 The Seminar Report on Correctional Services—January, 1965 Social Welfare, Vol. XI, No. 11, February, 1965 The Seminar Report—Association of Schools of Social Work—March, 1965
Shri J. K. Motwani	(i) Psycho-Social Aspects of an Orthopaedic Handicap (ii) Rehabilitation of the Orthopaedically Handicapped and the Role of the Social Worker (iii) Case Work Services in Correctional Institutions	Seminar Report—National Seminar on Medical Social Work, Bombay—May, 1964 The Seminar Report on Correctional Services—January, 1965

1	2	3
	(iv) Field Work Evaluation of Case Work Students	The Seminar Report—Association of Schools of Social Work, Bombay, March, 1965
Dr. V. B. Shah	(i) Role of Medical Social Worker in the Training of Medical Students	The Seminar Report—National Seminar on Medical Social Work—May, 1964
	(ii) Medical Social Worker in Rehabilitation	
	(iii) School Social Work Service	
Kumari J. P. Patel	Role of Professional Social Worker in the Institutional Set-up	The Seminar Report on Correctional Services—January, 1965
Shri I. P. Shelat	(i) Youth Welfare Activities	Bharat Sevak—Monthly—Journal of Bharat Sevak Samaj, Ahmedabad—August, September, October, 1964 (in Gujarati)
	(ii) Economic Development & Social Welfare	Bharat Sevak—Monthly—Journal of Bharat Sevak Samaj, Ahmedabad, December, 1964
	(iii) Values and Attitudes of Indian Youth	Bharat Sevak—Monthly—Journal of Bharat Sevak Samaj, Ahmedabad, February, March, 1964

6. Literary, Cultural and Other Activities

(1) Short-Term Orientation Programme for Field Workers

The Faculty organised a short-term Orientation Programme for a week from 9th October to 15th October 1964 at Sanosara (Saurashtra) for the field workers of the Khadi Board. Four members of the Staff participated. About 30 participants representing different districts of the Gujarat State attended this course.

(2) Seminars:

(i) Faculty Agency Seminars:

The Faculty organised four seminars in the month of January, 1965 on field basis for which the representative of the local welfare agencies were invited.

(ii) State Seminar on Correctional Services:

A five-day Seminar was organised at the Faculty for which grant of Rs. 5,000/- was received from the Directorate of Social Welfare, Government of Gujarat, Ahmedabad. The Programme was inaugurated by Shrimati Indumati-ben Sheth, Minister for Education and Social Welfare. Experts from the Correctional field were invited to present papers and guide the deliberations of the seminar.

7. Co-curricular Activities

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

(2) During the year the Students' Association organized socials, sports, outings, two debates and eight lectures by eminent speakers on topics of academic interest.

The study circle arranged a series of lectures on different topics. The students of the Faculty also participated in the programmes organized at the University level. One of the Faculty students won a prize for participating in the Inter-University Debate arranged for University students by the Director of Education, Government of Gujarat, Ahmedabad.

(3) Magazine:

The eleventh issue of the "Social Work Review" Magazine was published in October, 1964.

(4) Award of Shields:

Shrimati Manorama Karandikar Shield was awarded to Shri P. R. Shah, alumni of the group 1962-1964, who stood first in the order of merit, on 17th February, 1965. The Alumni Association Shield was awarded to Shri M. C. Sharma, alumni of the group 1962-64, 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 Associa-

tion 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 15 years of its establishment, the Faculty has trained 279 graduates. Almost all of them are gainfully employed and many of them are holding key positions in the field.

12. *Shri V. T. Krishnamachari Institute of Rural Development (S.E.O. Training Centre)*

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 Organiser's 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 Organisers who are in charge of Social Education Programmes in C.D. Blocks along with other Extension Workers.

The Training Centre has so far trained 94 men and 318 women. This year marked the beginning of new development in training of Panchayati Raj leaders.

The fifth long term course of Mukhya Sevikas ended on 10th May, 1964 wherein 20 women trainees were trained as Mukhya Sevikas. The sixth course has been started with 8 trainees on roll. Six are from Gujarat and two from Mysore. This year the S.E.O. Training Centre has been selected as one of the agencies to train Associate Women Workers in Gujarat State. One hundred and five women have been trained in these four courses.

Panchayati Raj Training Centre:

This centre started on the 23rd November, 1964 with the coming up of Panchayati Raj. At the instance of the Central Government, the Institute organised training courses for members of Panchayats at Village, Nagar, Taluka and District levels. 144 Sarpanchas and Upsarpanchas of 12 talukas received training in 4 courses at the Institute.

The staff of the Institute including that of Panchayat Raj Centre consists of one Director, one Special Instructor, six Lecturers, one Art Instructor, one Lady Home Economist, ten Class III and twelve Class IV Servants. One of the Lecturers, Shri S. H. Shah is also working as Principal of the Panchayati Raj Training Centre. Fourteen part-time lecturers were also invited for various courses.

The Centre also maintains a library and a reading room. It has a stock of 1864 books costing Rs. 10,287-68. The Library continued to get publications

from the Ministry of Community Development, Co-operation and Panchayati Raj, Government of India, U.S.I.S., etc. free of cost.

A seminar on "Community Development and Social Change in India" was organised by our University in collaboration with the Ministry of Community Development, Co-operation and Panchayati Raj, Government of India, and under a grant of the U.G.C. The seminar was held at Mount Abu from 22nd to 28th October, 1964.

The Centre also runs a Health Clinic with the assistance of Government Doctors of Padra Health Training Centre. This year the total number of Clinic days was 101 and the number of patients was 1344. A grant of Rs. 2,500/- was sanctioned by the University towards the maintenance of the Clinic.

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 29th December, 1964.

Mr. Somponge Khashapongse and Mr. Thweep Rutnosot of Thailand visited from 7-8-1964 to 14-8-1964. Mrs. Rose Hoppin Makcuelung a U.N. Fellow from Trust Territory of Pacific Islands visited from 21-3-1965 to 22-3-1965. Mr. J. C. Verma, Director (Industries) Ministry of Community Development and Co-operation, New Delhi visited from 21-2-1965 to 22-2-1965. Mr. John H. Shaw of Australia visited from 10-1-1965 to 15-1-1965. Mr. A. V. O. Owolabi, Community Development Officer, Government of Nigeria visited from 24-10-1964 to 27-10-1964.

CHAPTER XVII—FACULTY OF LAW

1. Courses of Studies

The Faculty of Law imparts instructions for the following courses:

- (i) Bachelor of Laws (LL.B.)
- (ii) Master of Laws (LL.M.)
- (iii) Ph.D. in Law
- (iv) Post-graduate Diploma in Taxation Laws and Practice (D.T.P.)
- (v) Post-graduate Diploma in Labour Laws and Practice (D.L.P.)

The courses mentioned at (ii), (iii) and (v) were started during the year under report.

2. Number of Students

The number of students enrolled for the various classes in the Faculty was as follows:—

Class	Men Students	Women Students	Total
First Year LL.B.	183	8	191
Second Year LL.B.	113	14	127
Total	296	22	318
D.T.P.	77	1	78
D.L.P.	107	1	108
Total	184	2	186
First Year LL.M.	21	4	25
Ph.D.	1	—	1
Grand Total	502	28	530

The strength of the Law class in the Faculty of Arts was as under:

Law (Subsidiary) S.Y.B.A. 32 students.

3. Staff

During the year the staff of the Faculty consisted of 1 Professor, 1 Reader, 2 Lecturers, 9 Part-time Professors, 1 Visiting Professor, 4 Class III and 3 Class IV employees.

4. Co-curricular Activities

During the year several Debates, Musical Evening, Annual Social Gathering of the Faculty, etc. were arranged and all students and staff members took interest in them. Teachers of the Faculty participated in debates and symposia organized by other institutions.

5. Important Lectures

The following eminent speakers addressed the students and the teachers of the Faculty during the year.

Speaker	Subject
Professor A. A. A. Fyzee M.A. (Cantab) Bar-at-Law, former Vice-Chancellor, University of Jammu and Kashmir	The relevance of Mohammadan Law during the 20th century
Professor L. R. Shivsubramaniam, Dean, Faculty of Law, University of Delhi	Legal Philosophy
Dr. M. J. Sethna M.A. Ph.D., Bar-at-Law, Department of Law, University of Bombay	Treatment rather than Punishment
Professor G. G. Dadlani Dean, Faculty of Social Work	Criminal Law Reform: Historical Perspective
Shri S. A. Sudhalkar former Chief Justice and Dewan, Baroda State	University Education

6. Symposia

The symposia on the following subjects were arranged in the Faculty during the year:

- (i) Judicial Supremacy
- (ii) Treatment rather than Punishment
- (iii) University Education should not be open to all.

CHAPTER XVIII—ORIENTAL INSTITUTE

When the Institute was taken over by the University in 1949 it had a fairly good record of publications—109 volumes in the Gaekwad's Oriental Series and 516 other books. By the end of March, 1965, the number of publications in the various series, from the Oriental Institute is 145 in the Gaekwad's Oriental Series and 575 other books. The main work of the Institute is research and publications of important unpublished works carried on with the help of the Institute's collection of manuscripts and printed books on all subjects related to Indology.

The publications fall under the following heads:

- (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 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 Shishujnanamala

2. Post-graduate Teaching

Besides the above, as a part of the scheme of co-ordination of the teaching of 14 Shastras of Sanskrit in the University, 8 members of the Institute are recognised as Post-graduate teachers in Sanskrit and Gujarati for the guidance of 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 11 Ph.D. students in Sanskrit, Gujarati and Ancient Indian Culture and 69 M.A. students in Sanskrit and Gujarati. The teaching of Prakrit as a subordinate subject at the B.A. and M.A. levels was introduced last year by the University and Shri J. P. Thaker of this Institute taught 4 M.A. (2 Seniors and 2 Juniors) students in the subject. Two senior students have passed with 2nd class. The Director also worked as the Head of the Gujarati Department of the Faculty of Arts. Students working under the teachers of this Institute are being enrolled in the Faculty of Arts.

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 two Class IV Servants.

4. Library

(1) Manuscripts Section:

This section has already a collection of 23,814 MSS in Sanskrit, Prakrit, Pali, Apabhramsa and other classical Indian languages and in several modern Indian Languages. Of these 1,264 were added during the year, out of which 446 were published and 818 were received as gift from (i) Late Shri Ramachandrarao Muley of Nevari District, Devas, (ii) Shri Ambarish L. Shastri, Baroda (son of late Shri L. B. Shastri of Baroda), (iii) Yatishri Hemachandraji of Baroda and (iv) Late Professor G. H. Bhatt of Baroda (Ex-Director and General Editor and Head of the Ramayana Department).

During the year, 18 MSS were lent to outside institutions, 15 to local scholars and 245 were issued for work on the premises of 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 colophons and post-colophon entries. The collection contains MSS in almost all the scripts of India including Persian and Arabic. 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 with a collection of 27,255 books.

(3) Acquisition Notes:

(i) Books:

This year the library received a grant of Rs. 6,000/- for Printed Books Section and Rs. 300/- for Ramayana Department from the University for purchase of books and periodicals. The grant for Printed Books Section has been fully utilised and that for Ramayana Department and the U.G.C. grant which was received last year has been partly utilised.

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

	<i>Books including bound periodicals</i>	<i>Total value in Rupees</i>
Total number of volumes at the beginning of the year	25,698	2,35,597-67
Number added during the year	1,557	12,958-68
	<u>27,255</u>	<u>2,48,556-35</u>

Out of the total number of books added during the year, 698 books were purchased at the cost of Rs. 8,663-68 nP. and 859 books including periodicals were received as gifts and on exchange basis, out of which a collection of about 644 volumes was received from late Professor G. H. Bhatt as gift to this Section.

(ii) *Periodicals:*

The total number of periodicals and scholarly Journals subscribed for and received on an exchange basis now stands at 275. About 215 volumes of bound periodicals were added to the stock during the year.

4. Circulation and Reference Services

The collection is maintained as reference collection for study and research in Indology for use of the staff of the Oriental Institute. Books from the collection are available for reading on the premises of the Oriental Institute as well as on the premises of the University Library for the staff and advanced students of the University. The Institute also allows a number of people, not connected with the University but interested in the scholarly pursuit of the subject under the purview of the Institute, to read on the premises.

Select contents of the Journals of Oriental learnings are being compiled and published in the Journal of the Oriental Institute.

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.

GOS No. 145 —Natyasastra of Bharata with Abhinavabharati—Vol. IV by Shri J. S. Pade was published during the year under two series.

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

Sishuprabodhakavyalankara by Shri B. L. Shanbhogue, was published in book-form as No. 7 of this series during the year.

(3) *M. S. University of Baroda Research Series:*

(i) 'Origin and Development of Dattatreya Worship in India' by Dr. H. S. Joshi and (ii) 'Matsyapurana' by Dr. S. G. Kantawala—were published this year.

6. Translation Branch

The following books were published during the year under this Series :

(1) Shri Sayaji Sahityamala :

- | | |
|----------------------------------|----------------------|
| (i) "मानवसंज्ञित वस्त्रतुल्यो" | by Shri P. R. Shah |
| (ii) "लवार्चना वेशनी वार्तालो" | by Shri B. B. Mehta |
| (iii) "भारतीय संस्कृति" | by Shri K. S. Yajnik |

(2) Matushri Jamnabai Smarak Granthmala :

- | | |
|--------------------------------|------------------------------|
| "भारतना समाजमा विद्यमान स्थान" | by Shrimati Vatsalaben Mehta |
|--------------------------------|------------------------------|

(3) Series of Text-Books in Regional Languages :

- | | |
|-----------------------|--------------------|
| "शिक्षणना सिद्धान्तो" | by Shri J. J. Modi |
|-----------------------|--------------------|

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

7. Publications by the members of the staff

(1) Articles/Papers :

Author	Title	Where published or read
1. Professor B. J. Sandesara	(i) Sripala-the blind poet-laureate at the Court of Siddharaja Jayasimha (1094-1143 A.D.) and Kumarpala (1143-1174 A.D.) of Gujarat	Journal of the Oriental Institute, Vol. XIII, No. 3
	(ii) रत्नाकररुत "हरीविजय मंडो-काव्य"	"पुष्पिकाश," जुन, १९५५
	(iii) "वैद्यशास्त्री"नुं अभिनंदन	"वैद्यशास्त्री"भापालाल पट्टिपूति गौरव ग्रंथ.
	(iv) "विवेक, धर्म अने राष्ट्रीय चारित्र"	"पुष्पिकाश, ओक्टोबर, १९६४
	(v) "भारतना जैनस्थापत्यो"	"जैन" पर्थुपल पर्व अंक, सं. २०२०
	(vi) "प्राचीन भारतमा वडालुवट अने नौका"	"नवचेतन" दीपोत्सवी अंक, सं. २०२०
	(vii) "अमृतकलशकृत" डम्भीरग्रन्थ	"स्वाध्याय", पुस्तक २, अंक. १

Author	Title	Where published or read
	(viii) “સોલંકી યુગની શ્રી અને સંસ્કૃતિ”	“નર્મદ સુવર્ણચંદ્રિકા સ્વીકાર પ્રસંગે તા. ૧૩-૧૨-૧૯૬૪ના રોજ સૂરતમાં આપેલું બ્યાખ્યાન-પુનર્મુદ્રિત” સ્વાધ્યાય, પુ. ૨, અંક ૨; “બુદ્ધિપ્રકાશ” રિસે-મ્બર ૧૯૬૪, જાન્યુ. ૧૯૬૫; “રુચિ,” ફેબ્રુઆરી, ૧૯૬૫. પ્રવાસી, દીપોત્સવી અંક, સં. ૨૦૨૦
	(ix) વસુદેવ કુટુંબકમ	
2 Dr. U. P. Shah	(i) ગુજરાતમાં બૌદ્ધધર્મ	સ્વાધ્યાય, પુ ૧, અંક ૩
	(ii) Obituary note: Dr. Benoytosh Bhattacharya	Journal of the Oriental Institute, Vol. XIII, No. 4
	(iii) Jaina Art : North India (with plates)	Cultural Heritage of India, Vol. V
	(iv) ગ્રંથ સંસ્મરણો	જનકદયાળુ, સંસ્મરણ અંક, ફેબ્રુઆરી, ૧૯૬૫
	(v) Prakrit passages in Kashmir Saiva Texts	Paper for the All India Oriental Conference, Gauhati
	(vi) સ્વ. બિનયતોષ ભટ્ટાચાર્યને અંજલિ	સ્વાધ્યાય, વર્ષ ૨, અંક ૧, દીપોત્સવી, ૨૦૨૦
	(vii) સન્તમત	હિન્દુ મિલનમંદિર, દીપોત્સવી, ૨૦૨૦
3. Shri J. S. Pade	Natyashastra, Vol. IV, GOS No. 145-(pp. 515-568 plus Introduction and table of contents pp. 15.)	Oriental Institute, Baroda
4. Shri B. L. Shanbhogue	Sisuprabodhakavya-lankara	Published in the M. S. University Oriental Series
5. Dr. S. D. Parekh	(i) ભારતીય વિદ્યાધરોની પરંપરા	વીણલાં મોતી, ઓક્ટોબર, ૧૯૬૪
	(ii) ગુજરાતના સાંસ્કૃતિક ઇતિહાસની સાહિત્યિક સામગ્રી	હિન્દુ મિલન મંદિર, ઓક્ટોબર, ૧૯૬૪

8. Ramayana Department

During the year under report the Kishkindha Kanda (edited by Principal D. R. Mankad; Sargas 66 critical) with 26 Appendix passages, Critical Notes

and Concordance was printed. The introduction was considerably long, as it dealt with many important problems and so Kishkindhakanda was published in 1965 instead of 1964 as planned earlier.

The finalised press copy of Sargas 1-5 of the Sundarakanda is sent to the Press and printing of the Kanda has already been started. First form pp. 1-8 is printed. The press-copy of Sargas upto 43 is prepared.

The Yuddhakanda—rough copy of the Critical Apparatus upto Sargas 43 is completed.

The Collection of Yuddhakanda of two Newari and two Maithili MSS (Microfilms) is practically over. Only 6 Sargas in N1 and 28 Sargas in the 2nd Maithili MS are remaining.

9. Journal of the Oriental Institute

The Institute has regularly published a quarterly Journal. During the year Vol. XIII Nos. 3 and 4 and Vol. XIV Nos. 1 and 2 were published. 82 subscribers were registered during the year and 233 copies were sent on exchange basis. The Journal is specially devoted to research studies in Indology and also includes studied papers on Ramayana and allied topics concerning the epics and puranas.

10. Gujarati Journal ‘Svadyaya’

The Institute has recently started a new Gujarati Quarterly ‘Svadyaya’. Nos. 1 and 2 of Vol. II were published No. 3 (અક્ષયતૃતીયા અંક) of Vol II is under print.

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 has been a vacuum in Gujarat in the matter of a Journal in Gujarati devoted to research papers in the Humanities and the Sciences. This Journal is intended to remove this vacuum. It is also intended to help scholarly writing in the regional language in the fields of the humanities and the sciences so that a proper terminology is evolved which would facilitate higher teaching through the medium of the regional language.

11. Other Activities

For further development of the Oriental Institute a scheme of inviting Professors was started and the following five lectures by five learned lecturers on different subjects were arranged in the Oriental Institute during the year under report:

Name of the Lecturer	Subject	Date
(1) Shri Purna Harsha Bajracharya, Special Officer, Department of Archaeology and Culture, Government of Nepal, Kathmandu	'Manuscript and Archaeological Wealth of Nepal'	29-1-1965
(2) Dr. J. S. Jetly, Principal, Bhakta Vallabh Dhola Arts and Commerce College, Ahmedabad	“सुप्रसिद्ध भारतीय दर्शनोमां आत्मातुं स्वयं”	9-2-1965
(3) Principal J. T. Parikh, Principal, M. T. B. Arts College, Surat	“संस्कृत नाट्यकला उद्गमनो प्रश्न”	15-2-1965
(4) Dr. S. M. Katre, Director, Deccan College, Post-graduate and Research Institute, Poona	“Applied Linguistics in relation to Humanities and Social Sciences”	22-2-1965
(5) Dr. (Miss) E. A. Solomon, Reader in Sanskrit, School of Languages, Gujarat University, Ahmedabad-9.	“ભારતીય તત્વજ્ઞાનમાં અજ્ઞાનના મીમાંસા”	3-3-1965

The Institute has been in charge of the scheme of preparing text-books in regional languages. Under the scheme one book 'શિક્ષણના સિદ્ધાન્તો' by Shri J. J. Modi was published and the other work 'આર્થિક આયોજન' by Shri Ramu Pandit is under print. Other works are under preparation.

The University Grants Commission extended the period of tenure of award by one year more to Dr. P. M. Modi under the scheme 'Utilisation of Services of retired Professors and Scientists' on an honorarium of Rs. 6,000/- per annum for teaching and supervision of research in (1) Brahmasutra of Badarayana and (2) A Critical Study of Anubhashya on the Brahmasutra.

The University Grants Commission has approved the implementation of the Scheme for the Collection, Preservation and Utilisation of Manuscripts in this University. Under the scheme two persons (1) Research Assistant and (2) Technical Assistant are continued for further period of one year. The work is in good progress.

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 1964-65 was as under:

(1) Diploma:

Year/Class	Men Students	Women Students	Total number of Students
1st Year	70	77	147
2nd Year	36	44	80
3rd Year	21	31	52
4th Year	20	20	40
5th Year	14	16	30
Total	161	188	349

(2) Degree:

1st Year B.Mus.	7	2	9
2nd Year B.Mus.	3	7	10
3rd Year Jr. B.Mus.	1	2	3
4th Year Sr. B.Mus.	3	4	7
Total	14	15	29

(3) Post-graduate Degree:

5th Year Jr. M.Mus.	3	2	5
6th Year Sr. M.Mus.	3	—	3
Total	6	2	8

Grand Total	181	205	386
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3. Staff

During the year, the staff consisted of a Principal, 1 Hon. Visiting Professor, 1 Hon. Visiting Lecturer, 3 Readers, 11 Lecturers, 8 Tutors, 22 Ustads (Teachers in Music and Dance including part-time teachers), 9 Class III and 10 Class IV Servants.

4. Library and Reading-room

(1) Acquisition Notes:

(A) Books:

The library of the College received as usual grants of Rs. 2,000/- from the University for purchase of books and Rs. 650/- for periodicals. The grant has been utilised. In addition, a grant of Rs. 5,000/- for books and equipment was received from the University Grants Commission.

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	4,875	480	34,436-51
2. Number added during the year	262	47	2,107-12
3. Number withdrawn from the records	—	—	—
	5,137	527	36,543-63

(B) Periodicals:

The total number of periodicals subscribed to now stand at 45; 47 volumes of bound periodicals were added to the stock during the year.

5. Museum, Laboratory, Studio, Workshop etc.

Sr. No.	Item	Cost of equipment as on the 1st April '64	Cost of equipment etc. written off during the year	Cost of equipment etc. added during the year	Cost of equipment as on the 31st March 1965
		Rs.	Rs.	Rs.	Rs.
	Physics Laboratory	4,683-83	—	253-70	4,937-53

6. Literary, Cultural and Other Activities

Under the scheme of Extra Mural Studies, Miss Carolyn Clement, American Tutor attached to the English Department, was invited to give a lecture-Demonstration on 'Ballet' on the 17th and 18th December, 1964 in the College.

7. Co-curricular Activities

(1) On the 18th July, 1964 the College celebrated the Jayanti of the late Ustad Maulabaux. Shri S. K. Muley gave Sitar recital and Shri Guruacharya of Nepal presented some light songs.

(2) Nartanacharya Jayanti was Celebrated on the 10th October, 1964. A student of Shrimati Mrunalini Sarabhai gave a demonstration of Bharat Natyam Dance. In the evening the present and past students and the staff members gave a programme of Kathak and Bharat Natyam Dance items.

(3) The College celebrated Shakespeare Quarter Centenary Celebration Week in the College Play Box from the 7th to the 11th December, 1964. A Shakespeare Exhibition was arranged by the Department of Dramatics. The staging of a Gujarati version of 'The Merchant of Venice' translated by Shrimati Hansa Mehta, a programme of Elizabethan and Shakespearean songs, films and recorded items on Shakespearean and Elizabethan Theatre and a symposium on Shakespeare were organised during the week.

(4) The Late Ustad Faiyaz Khan Jayanti was celebrated on the 13th and 14th February, 1965. Many local artists participated in this celebration and gave an "Anjali" to the late Fayaz Khan.

(5) Professor B. R. Deodhar of Banasthali gave a lecture on Old Classical compositions in some selected Ragas on the 15th February, 1965.

(6) A group of seven post-graduate students from France and a UNESCO Scholar visited the college on the 11th August, 1964 and the 2nd February, 1965 respectively.

(7) Shri B. D. Panchakshari, a student of Second Year Degree Class, stood first in the All India Music and Dance Competition at Hyderabad.

CHAPTER XX—BARODA SANSKRIT MAHAVIDYALAYA

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) Uttam Kaksha or special pandit course of four years' duration is split up into two courses: (i) The Shastri course (Degree Course) extending over the first two years and (ii) The Acharya Course (Post-graduate degree course) extending over the last two years in the subjects of (i) Vyakaran Shastra, (ii) Jyotish Shastra, (iii) Dharma Shastra, (iv) Sahitya Shastra, (v) Nyaya and Vaisheshik Darshan, (vi) Sankhya Yoga and Vedanta Darshan, (vii) Purva Mimansa Shastra and (viii) Suddhadwaita Vedanta. Instruction in only the first four and the last branches was imparted during the year.

(3) Madhyam 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 three branches of (i) Yajurved-Yajniki, (ii) Rigveda-Yajniki and (iii) Purana with grammar and literature compulsory for all branches.

2. Number of Students

Number of students enrolled in various classes during the year 1964-65 was as under:

(1) Pratham Kaksha Certificate

	Men	Women	Total
First Year	16	5	9
Second Year	5	4	9
Third Year	8	1	9
Total	29	10	39

(2) Madhyam Kaksha (Visharad):

First Year	10	—	10
Second Year	1	2	3
Third Year	5	—	5
Fourth Year	1	1	2
Fifth Year	2	—	2
Total	19	3	22

(3) Uttam Kaksha (Shastri):

First Year	15	—	15
Second Year	2	—	2
Total	17	—	17

(4) Uttam Kaksha (Acharya):

First Year	4	—	4
Second Year	6	—	6
Total	10	—	10

(5) Vachaspati:

	3	—	3
Grand Total	78	13	91

3. Staff

During the year, the staff of the institution consisted of the Principal, 12 Adhyapak, 1 Hon. Adhyapak, 2 Class III and 4 Class IV Servants.

4. Library

The institution has a small library and a reading room.

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

Sr. No.	Particulars	Number	Cost in Rs.
(1)	Books (including back numbers of Journals) as on 1-4-1964	3,869	13,953-46
(2)	Books written off during the year	—	—
(3)	Books added during the year	433	987-78
(4)	Books as on 31-3-1965	4,302	14,941-24
(5)	Journals subscribed during the year	15	72-80
(6)	Amount spent on binding during the year	—	—
(7)	Total amount spent for the library and Reading-room during the year	—	349-32

5. Publications

The following research articles by the members of the staff were published in Surbharati issue of 1964-65:

<i>Name of the Contributor</i>	<i>Title</i>
(1) Shri H. C. Mehta	(१) प्रियदर्शिका वस्तु विमर्शः
(2) „ S. V. Bhattbhatt	(२) धर्मशास्त्रे मीमांसा पद्धतिः
(3) „ L. J. Zha	(३) सायन निरयन तत्त्व विमर्शः
(4) „ S. Y. Mishra	(४) शब्द ब्रह्म
(5) „ J. R. Pathak	(५) पूर्वत्रा सिद्धम्
(6) „ B. K. Shastri	(६) भागवते भक्तिः
(7) „ M. C. Jani	(७) ताजिक शास्त्र

6. Literary, Cultural and Other Activities

(1) 8 extension lectures on different subjects under the auspices of the Sharadopasaka Mandal, 3 lectures under the Extra Mural Grant of the University, 7 popular lectures and 3 lectures by eminent visitors were arranged in the institute this year.

(2) The institute arranged five symposiums one each on Vyas, Mahakavi Kalidasa, Valmiki, Shankaracharya and Shrimad Bhagwat Geeta during the year.

(3) The institute celebrated Sharodotsava during the month of October, 1964.

7. Co-curricular Activities

(1) Elocution Competition:

The institution arranged an elocution competition in Sanskrit for the award of Shri Abhinav Sacchidanand Tirthaji Maharaj of Dwarka Sharda-peeth Silver Medal on the 15th January, 1965.

(2) Sanskrit Kavi Sammelan:

This was organised in the institution on the 7th March, 1965 under the Presidentship of Shri Badrinath K. Shastri of Baroda. A number of leading Sanskrit poets of Baroda participated in the Kavi Sammelan.

8. Other Important Events

(1) The Institution received the following donations:

(i) Donation of Rs. 5,000 per year for three years commencing from the academic year 1964 from the President, Nathadwara Temple Board, Bombay, for the introduction of a degree course for the teaching of Suddhadwaita Vedanta at the Uttam Kaksha (Special Pandit Course) for Shastri and Acharya degrees of the University.

(ii) Donation of Rs. 5,000 per year for three years from Sheth Shri Himmatlal Ranchhodbhai Thakkar of Bajwa for the introduction of degree course for the teaching of Sankhya-Yoga-Vedanta Darshan at the Uttam Kaksha (Special Pandit Course) for Shastri and Acharya degrees of the University from the Academic year 1965-66 for a period of three years.

(iii) Donation of 374 books on Shuddhadwaita Darshan as gift to the library of the institution from the late Professor G. H. Bhatt, Head of the Ramayana Department of the Oriental Institute.

(iv) Donation of Rs. 2,625 from Shri L. B. Shastri Memorial Committee for the award of Mahavastra from the income of the fund at the Annual Convocation to the student securing a first class with highest number of marks at the University Acharya examination.

(v) Donation of 20 second preference shares of the Tata Iron and Steel Company from Vakil Nanalal Mohanlal Parikh for the award of a Mahavastra from the income of the Fund at the Annual Convocation to the student obtaining the highest number of marks at the Annual Shastri examination of Uttam Kaksha held by the University.

(vi) Donation of Rs. 500 in two instalments from Sheth Hansraj Pragji Thakkerssey Educational Trust, Bombay, for the purpose of giving additional scholarships to successful students in the terminal examination and that of a sum of Rs. 101 from the Late Shrimati Godavariben Mehta of Patan, for the purpose of giving books to the students of the Institute.

(2) The Shastri First Year Class in Shuddhadwaita Vedanta was started during the year.

CHAPTER XXI—PREPARATORY UNIT

1. Course 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 1964-65 was as under:

Class	Men	Women	Total
(1) Preparatory Courses in Arts	269	329	598
(2) Preparatory Courses in Commerce	436	24	460
(3) Preparatory Courses in Science	641	115	756
Total	1,346	468	1,814

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, during the year under report.

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 every year of the value of Rs. 2,000. Books are selected from the point of view of their suitability for the Preparatory students taking into account his special needs in English, Indian Languages, Social Studies and Science. Some periodicals are being supplied for the teachers' common room by the University Library. Reading room and Library room facilities are also made available in the General Education Centre.

5. Co-curricular Activities

(1) N.C.C. and A.C.C.

As the N.C.C. training is made compulsory for all the male students admitted to the Preparatory Unit since June 1963, the number of students this Unit sends to the N.C.C. is large. The enrolment of the girls from this Unit in the N.C.C. is also on the increase and very encouraging.

(2) Sports

The Unit Association arranged the annual competitions in Badminton, Table-tennis and Cricket. The winners of these competitions were awarded prizes. A few students also participated in the indoor and outdoor sports at Inter Faculty Competitions and the University Youth Festival items. Three students were selected from this Unit to represent our University team in the Inter-University Hockey Tournament held at Hyderabad from 11-1-1965.

(3) Republic Day Contingent Parade at New Delhi

Mr. Chinoy V. B., a student of this Unit, Cadet of 1, Gujarat Air Squadron N.C.C. was selected for Republic Day contingent Parade held on the 26th January, 1965 at New Delhi.

(4) Debates and Literary activities

The Unit Association arranged debates between classes in which quite a large number of students took part. Students of the Unit participated in the Inter-Faculty debates of the University as also in the Youth Festival debates.

(5) Cultural Programme

Musical evenings and other items were arranged at the Auditorium of the General Education Centre. The Annual Day of the Preparatory Unit for Arts, Science and Commerce sections was celebrated on three different days.

6. Other Important Events

(1) The academic year began with the Orientation programme for the fresh students admitted to Preparatory Courses for the year 1964-65. The programme was arranged in groups of different important topics in which staff members from the various University departments were invited to address the students.

(2) The following lectures were arranged during the year.

Name of the Lecturers	Date	Subject
Dr. T. V. Patel	4-8-1964	Importance of the Medical
Dr. M. H. Tailor	5-8-1964	Check-up and Personal
Professor G. G. Dadlani and Shri B. K. Naik, M. S. University of Baroda	6-8-1964	Hygiene
Dr. Y. G. Naik, Principal, Gujarat College, Ahmedabad	30-11-1964	Man's place in the Universe
Dr. K. Saxena, National Council of Educational Research and Training, New Delhi	12-12-1964	Science Education
Shri P. G. Mavlankar, Principal, L. D. Arts College, Ahmedabad	15-12-1964	Citizenship—Its Craft and Culture

CHAPTER XXII—POLYTECHNIC

1. Courses of Studies

The Polytechnic offers the following Diploma Courses in Engineering :

Name of courses	Duration of Courses	Sanctioned number of admissions
(1) Diploma in Civil Engineering	3 Years	120
(2) Diploma in Mechanical Engineering	3 Years	150
(3) Diploma in Electrical Engineering	3 Years	90

In addition to the above, the Institute also conducts the Extended Diploma Courses in Civil, Mechanical and Electrical Engineering which are of 4 years' duration.

2. Number of Students

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

	Men	Women	Total
<i>I First Year Diploma</i>			
(1) Civil Engineering	131	—	131
(2) Mechanical Engineering	192	—	192
(3) Electrical Engineering	110	2	112
Total	433	2	435
<i>II Second Year Diploma</i>			
(1) Civil Engineering	83	—	83
(2) Mechanical Engineering	158	—	158
(3) Electrical Engineering	91	3	94
Total	332	3	335
<i>III Final Year Diploma</i>			
(1) Civil Engineering	93	1	94
(2) Mechanical Engineering	192	—	192
(3) Electrical Engineering	126	—	126
Total	411	1	412
Grand Total	1176	6	1182

3. Staff

During the year the staff of the Polytechnic consisted of 1 Principal, 2 Professors, 2 Readers, 26 Lecturers and 33 Senior Instructors, 29 Junior Instructors, 6 Demonstrators, 48 Class III and 51 Class IV servants.

4. Library

(A) Acquisition Notes

Books

The books and periodicals were purchased from recurring grant of Rs. 12,000 and Rs. 2,910 for books and periodicals respectively.

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

	Books and bound periodicals	Pamphlets	Manuscripts, Maps, Charts, etc.	Total value in Rupees
Number at the beginning of the year	5854	—	—	1,00,119=90
Number added during the year	939	—	—	14,348=90
	6793			1,14,468=80
Number withdrawn from the record	16	—	—	149=62
	6777			1,14,319=18

Periodicals

The total number of periodicals and journals subscribed for now comes to 59. About 112 volumes of bound periodicals were added to the stock of books during the year.

5. Laboratories, Workshops, etc.

Out of the amount of Rs. 10,82,000 sanctioned by the University Grants Commission for equipment, furniture and books, Rs. 6,681=20 were spent during the year under the report and the total amount spent from this grant upto the end of the year is Rs. 10,68,469-50.

6. Publications by the Members of the Staff

(1) Books

Name of the author	Title of the book	Name of the publisher
R. C. Patel, B. M. Patel and A. D. Pandya	(i) Elements of Hydraulics (ii) Elements of Hydraulics and Hydraulic Machinery	Acharya Book Depot, Baroda
R. C. Patel and B. M. Patel	Mechanics of Machines	Acharya Book Depot, Baroda
S. C. Sheth and S. G. Desai	Principles of Electrical Engineering Vol. I and II	Acharya Book Depot, Baroda

<i>Name of the author</i>	<i>Title of the book</i>	<i>Name of the publisher</i>
S. C. Sheth and B. M. Patel	M/c. Drawing, Vol. II and III	Acharya Book Depot, Baroda
C. J. Karamchandani	Elements of Heat Engines, Vol. I and III	Acharya Book Depot, Baroda.
R. C. Patel and S. G. Desai	Elements of Electronics	Acharya Book Depot, Baroda.
C. H. Khadilkar and N. K. Parikh	Engineering Materials	Acharya Book Depot, Baroda.
N. K. Parikh and C. B. Patel	(i) Engineering Chemistry	Bharat Prakashan Mandir
	(ii) સરલ રસાયન શાસ્ત્ર	Jyoti Prakashan, Ahmedabad.

7. Literary, Cultural and Other Activities

(1) The students formed their association, arranged lectures, talks and seminars on various subjects of general interest by prominent persons.

(2) The Polytechnic Annual Day was celebrated on the 11th December, 1964 under the presidentship of the Vice Chancellor, Shri K. R. Srivatsa, I. A. S., Managing Director, Gujarat State Fertilizers Co. Ltd., Baroda, was the Chief Guest at the function.

8. Co-curricular Activities

(1) Excursions and Tours:

The final year students of Civil, Mechanical and Electrical Engineering classes accompanied by teachers went on an educational tour during the mid-year vacation to various places of particular interest in their respective branches of study.

(2) Exhibition of Educational Films:

Nine film shows were arranged during the year.

CHAPTER XXIII—SHRIMATI HANSA MEHTA LIBRARY

I. 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 and journals by the University Grants Commission for the IIIrd Five Year Plan period. Out of it, the third instalment of Rs. 30,000 for books and journals on Humanities and Social Sciences subjects and the fifth instalment of Rs. 25,000 for books and journals on Science subjects were sanctioned during the year and these are being utilized.

The departmental grants sanctioned by the University Grants Commission for the IIIrd Five Year Plan 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., Top Management Handbook ed. by H. B. Maynard; Mining Engineer's Handbook ed. by R. Peele, 2 vols.; Nuclear Chemistry and its Applications by M. Haissinky; Five Year's Work in Librarianship, 1956-1960 ed. by P. H. Sewell; The Dawn of Civilization, the First World Survey of Human Cultures in Early Times by S. Piggott, Index of Economic Journals, 1886-1959, v Vols.; Friedel-Crafts and Related Reactions ed. by G. A. Olah, Vol. 1.; Collier Encyclopaedia, 20 vols., Punch Card Applications, combined Applications Handbook; Ports of World, 18th ed., 1964; Handbook of Universities in India; Account's Encyclopaedia, 4 vols.; Modern Chinese English Technical and General Dictionary, 3 vols.; Encyclopaedia of Textiles; Acta Chemica Scandinavia, Vols. 1-12; Bulletin des Science Mathematique, vols. 74-82; Nuclear Physics, Vols. 20-38; Mathematique, Annale, vols. 117-136; Management Science, vols. 1-6; Journal of Mathematical Society of Japan, vols. 1-11; Journal of Gerontology, vols. 7-16; Duke Mathematical Journal, vols. 1-24; Journal of Molecular Spectroscopy, vols. 1-4; Annals de la Institute Fourier, Vols. 1-7.

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

<i>Institution</i>	<i>Number of Books</i>
Shrimati Hansa Mehta Library (which includes the books for the Faculties of Arts, Science, Education and Psychology, Commerce, Law, Home Science and the Department of Museology)	9,022

<i>Institution</i>	<i>Number of Books</i>
Department of General Education and Preparatory Unit	304
Faculty of Technology and Engineering	1,715
Faculty of Fine Arts	323
Chetan Balwadi	109
Faculty of Social Work	208
College of Indian Music, Dance and Dramatics	262
Oriental Institute (Printed Section)	1,557
Polytechnic	939
Sanskrit Mahavidyalaya	434
Centre for Advanced Study in Education, Faculty of Education and Psychology	2,410
Total	17,283

Out of these books 3,264 were received as gift.

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

	<i>Books</i>	<i>Bound Volumes of periodicals</i>	<i>Pamph-lets</i>	<i>Manu-scripts</i>	<i>Maps, Charts, etc.</i>	<i>Total value in Rupees</i>
Number at the beginning of the year	1,86,074	20,158	8,937	213	696	27,58,763=68
Number added during the year	9,022	669	1,494	34	10	1,90,770=51
Number withdrawn from the records]	85	—	100	—	—	994=13
Number remaining at the end of the year	1,95,011	20,827	10,331	247	706	29,48,540=06
Books transferred from the Faculty of Home Science Library	9,979	459	—	—	—	74,421=26
Total	2,04,990	21,286	10,331	247	706	30,22,961=32

The Library of the Faculty of Home Science is merged with the University Library this year and 9,979 books and 459 bound volumes of periodicals of the total value of Rs. 74,421-26 are transferred to the University Library.

(2) Periodicals

The total number of periodicals and scholarly journals subscribed to now stands at 1,340; 669 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	8,662
(2)	New accessions in the Faculties	8,616
	Total	17,278

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

	<i>Shrimati Hansa Mehta Library</i>	<i>Faculties</i>	<i>Total</i>
(1) Cards typed	21,665	38,772	60,437
(2) Cards filed in the catalogue	21,665	38,772	60,437

3. Circulation of Books, etc.

As usual the working hours of the library for the whole academic year i.e. from April, 1964 to March, 1965 (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.

From July 1964, a reading room has been opened in the Central Hall of the Baroda College building for the use of Preparatory and First Year students in Arts, Commerce, Science, etc. This reading room accommodates 200 readers and contains all the prescribed and recommended books for the Preparatory and the First Year students. Some periodicals of general interest are also displayed in this reading room. It remained open throughout the academic year, including Sundays and holidays, from 8-00 a.m. to 10-00 p.m.

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

(1)	Post-graduate students	1,212
(2)	Undergraduate students	6,367
(3)	Research students—scholars and research assistants	102
(4)	University teachers	707
(5)	Others	530
	Total	8,918

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

(1)	Daily average number of readers visiting the library	2,000
(2)	Daily average number of readers visiting the Central Hall of the Baroda College building	400

(3) Total number of books issued per day for reading	1,257
(a) Average number of books issued per day for home reading from general collection	315
(b) Average number of books issued per day from Curricular collection	371
(c) Average number of books issued per day from Central Hall	191
(d) Average number of books issued per day for reference	380
(4) Average number of books issued per reader in the year	40

4. Reference Section

(1) Exhibitions :

This year the Reference Section organised two exhibitions of (a) noteworthy books on and by Jawaharlal Nehru and (b) Some reference books on Gujarat ; forty-two weekly exhibitions of new books were also organised.

(2) Bibliographical Activity:

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

- (a) List of books by Jawaharlal Nehru
- (b) List of books on linguistics
- (c) List of text-books on Civics, Politics and Law in regional languages and Hindi.

The Reference Section has prepared (i) a descriptive list of the Ph.D. theses received in the library from November, 1963 to December, 1964 and (ii) a catalogue of our holdings of back files of periodicals in Shrimati Hansa Mehta Library. Both these publications are distributed to various Departments as well as other Universities and Institutions.

5. Teaching of Library Science

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

6. Other Activities

(1) Dr. C. P. Shukla worked as the Director for Study Group to prepare syllabi for full time and part time teacher librarian. This study group was appoint-

ed by the Department of Extension Programme for Secondary Education, National Council of Educational Research and Training, to work from the 28th December, 1964 to the 1st January, 1965.

(2) The following articles were contributed by Dr. C. P. Shukla:—

- (i) Baroda University Library Building, Lucknow Librarian, March, 1964
- (ii) Model Bill for Public Libraries, I. L. A. Conference, 1964
- (iii) Standards for College Libraries, Library Seminar at Vallabh Vidyanagar University, September, 1964
- (iv) Libraries in General Education in India, The Journal of General Education, Bombay, January, 1965

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-storekeeper, one head proof-reader, one senior proof-reader, one Junior proof-reader and a clerk. There are 43 permanent workers in the Press.

2 Machinery

The 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 fully put to use since 1961-62.

3 Printing Activities

During the year 838 plus 119 examination papers were printed under conditions of secrecy for the University examinations. The Press also printed Syndicate and Senate Proceedings, Hand-book, Annual Reports, Annual Accounts, Budget Estimates, Establishment Lists, Pamphlets, Certificates, General Forms, Lists, Prospectus, Questionnaires, Magazines, etc. of the Faculties and Institutions.

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

<i>Name of the book</i>	<i>Publisher</i>
Muslim Communities in Gujarat—A Preliminary Study	Department of History, Faculty of Arts
The Pleistocene Deposits of the Lower Narmada River and an Early Stone Age Industry from the River Chambal	Department of Archaeology, Faculty of Arts
Some Aspects of Family in Mahuva	Department of Sociology, Faculty of Arts
Statistical Summary of Medical Examination—Reports of the students of M. S. University of Baroda (1961-62)	Statistical Service Unit, Faculty of Science
The Impact of Transport in Waghodia Taluka	Department of Geography, Faculty of Science

A Handbook for Developing Guidance Services in Secondary Schools	Faculty of Education and Psychology
38th All India Educational Conference	Faculty of Education and Psychology
Some thoughts about Educational Research	Faculty of Education and Psychology
Shaping the new Education Programmed Instruction and Teaching Machine	Faculty of Education and Psychology
Comprehensive Personality Theory	Faculty of Education and Psychology
Counselling Services for the University Students in U.S.A.	Students' Counselling Centre
Adjustment Inventory for College Students	Centre for Advanced Study in Education
Essentials of Writing Research Report	Centre for Advanced Study in Education
New Dimensions in the Teaching of Mathematics	Centre for Advanced Study in Education
Research Abstracts	Centre for Advanced Study in Education
A Preliminary Survey of Indian Institutions Teaching and Conducting Research in Child Development and Family Relationships	Faculty of Home Science
Critical Edition of Valmiki Ramayana Vol. IV Kishkindhakanda	Ramayana Department
नवीन कवीता वीथे व्याख्यानो	Oriental Institute
मानवसंज्ञित वस्तुतुल्यो	Oriental Institute
भारतीय संस्कृति	Oriental Institute
नीतिशास्त्र	Oriental Institute
भारतना समाजमाविधवातुं स्थान	Oriental Institute
बवाछिना देशनी वार्ताओ	Oriental Institute
Natyasastra Vol. IV	Oriental Institute
शिक्षणुनां सिद्धांतो	Oriental Institute
Cultural History from Matsyapurana	Oriental Institute
Origin and Development of Dattatraya Worship in India	Oriental Institute
A Children's Museum for India	Department of Museology
Studies in Museology	Department of Museology
Reontgenographic Appearances of the Normal Chart	Health Centre
Symposium "Alcohol"	M. S. University of Baroda
15th Annual Report	M. S. University of Baroda

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

The Journal of Maharaja Sayajirao University (Science, Humanities and Social Sciences) : The Journal of Oriental Institute (Quarterly) ; The Journal of Animal Morphology and Physiology (Half yearly) ; The Education and Psychology Review (Quarterly) ; PAVO (Half yearly) and રવિદ્યય (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 under the Press Manager. During the year, stationery worth Rs. 1,34,768 was purchased and stationery worth Rs. 1,46,473 was distributed. A 3-wheeler Lambretta is used for distribution work.

5. University Publications 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 from some Faculties. It works as the book-shop for University publications. The total sale of books during the year was Rs. 52,801.

CHAPTER XXV—THE MAHARAJA SAYAJIRAO UNIVERSITY UNION

During the year 1964-65, Sarvashri K. K. Thakore and R. D. Pandya were appointed as President and Treasurer of the Union. The usual elections were held on the 25th July and 1st August 1964 and the following Executive Committee was formed for the year 1964-65.

1. Shri K. K. Thakore	President
2. Shri R. D. Pandya	Treasurer
3. Shri S. M. Patel	Vice-President
4. Shri A. N. Parikh	General Secretary
5. Shri Bhailalbhai G. Contractor	} Members nominated by the Syndicate
6. Smt. Ansuyaben Amin	
7. Shri Bipin C. Patel	
8. Shri Jayant L. Chhaya	

In addition to the above there were other 22 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 A. N. Parikh
	2. Kumari S. S. Devi
	3. Kumari Rabia Rizivi
2. University Board of Sports	1. Shri S. M. Patel
	2. Shri V. M. Patel
3. University Students' Aid Fund Committee	1. Shri A. N. Parikh
	2. Shri R. M. Patel
	3. Shri R. S. Sahani

On account of the General Secretary Shri A. N. Parikh, leaving the Faculty of Commerce and the resignation of a representative Shri Maharaotri, re-elections were held in the second term and Shri Dilip Patel and Kumari Rabia Rizivi were unanimously elected as General Secretary and Debating Secretary respectively.

Activities of the Sub-committees

(1) Debating Society

The Society arranged the following debates in Gujarati, Marathi, Hindi and English:—

Debate	Date	Subject
(i) Shri N. B. Bhatt Trophy Debate in Gujarati	26-11-1964	Extempore

	Debate	Date	Subject
(ii)	Shri S. A. Sudhalkar Trophy Debate in Marathi	2-12-1964	खीने घर संभाळण्यांतच समाजाचे सर्वांगीण कल्याण आहे.
(iii)	Baroda College Silver Jubilee Fund and Science Debating Club Fund.	5-12-1964	Science and Poetry are incompetable.
(iv)	Shri B. N. Majmudar Trophy Debate in Hindi	9-12-1964	यह आशा करना व्यर्थ है कि सदाचार समिति भ्रष्टाचार दूर करेगी.
(v)	The Vice-Chancellor Trophy Debate in English	11-12-1964	India must have an atom bomb.
(vi)	The Pro-Vice-Chancellor Trophy Debate in Gujarati	19-12-1964	देशना नवसर्जनने माटे स्त्रीयाने सत्य-व्यवस्था सोपी देवी जेष्ठ्ये.
(vii)	Shri M. N. Wadia Trophy Debate in English	20-12-1964	Extempore
(viii)	Professor D. Subbarao Memorial Debate in English	21-12-1964	Extempore

Besides students who were sent to participate in Inter-University Debates in Hindi and English at the University of Delhi won the Hindi and English Trophies.

(2) Discussion Group

The Group arranged one discussion on "The Present Youth is Suffocating in Vacuum" on the 12th December, 1964 under the guidance of Professor G. G. Dadlani, Dean, Faculty of Social Work.

(3) Film Club

The following films were shown during the year:

(i) Anuradha, (ii) Jhansi ki Rani, (iii) Brother Karamazor, (iv) The Children in Hiroshima, (v) Documentary Films.

(4) Indoor Games:

Open University Badminton and Table Tennis Tournaments were held in the months of September and December, 1964 respectively. Some students were sent to participate in Inter-University Badminton tournaments held at Bombay and in Inter-University Table Tennis tournaments held at Nagpur (Men) and at Tirupati (Women) and they showed a good performance.

(5) Poor Boys Library

Every year the rush of students who wish to take advantage of the help from this Library has been increasing. This year the library loaned 2500 books worth Rs. 12,000 to 400 students.

(6) Entertainment Committee

The Committee presented one programme in the first term at the Open Air Theatre of the Music College.

(7) Emester

A group of young and enterprising students deriving their initiative largely from the foreign students in the University felt the need of a student's own news paper in the University campus. Their first issue emerged out as 'Emester'. The Union Executives deemed it proper to encourage such activities of the students and offered its patronage. The response it receives from the students augurs well for its future. Three issues were brought out during the year.

(8) University Week

The 14th University Youth Festival began on the 19th December, 1964 and was inaugurated by Shri J. M. Shelat, Chief Justice of the Gujarat State. Festival programmes included debates, sports, cultural programme competitions in Drama, Garba, Group Dance, Classical, Vocal and Instrumental Music, etc.

3 Inter-University Youth Festival

The 9th Inter-University Youth Festival was held at Delhi from the 14th to 21st November, 1964. Our contingent took part in One Act Play, Vocal and Instrumental Music, Recitations, Debates and Discussions.

4. Other Events

(1) Four Executive Members of the Union attended the NCUSI Conference at Jodhpur.

(2) Our representatives attended the WUS Conference at Delhi with the support of the Indian National Committee of WUS; plans for having a student's guest house accommodation and canteen in the campus are under active consideration.

(3) The Union has unanimously resolved to give a prize of Rs. 50/- to the year's best student in each Faculty judged from various standpoints, the decision to be made by the panel of teachers in the respective Faculties from the year 1965-66 onwards. This would serve as an incentive to students to build a line of ideal.

(4) Six French students visited the University Union in the second week of August. Mr. Shreesh Juyal, Executive Secretary of the NCUSI came to the Union on the 13th October, 1964. Dr. K. M. Munshi visited the Union on the 28th November, 1964. The Foreign Students' Advisors from American Universities met the Executive Members at Tea and exchanged views on students' problems.

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 Arts, 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 reorganised 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 and the assessment of test sheets and also shared the teaching work.

The General Education Advisory Committee, consisting of the 14 members including the Vice-Chancellor, the Pro-Vice-Chancellor and Deans, advises on

all matters pertaining to the General Education Programme for the various Faculties of the University.

3. Building and Equipment

The General Education Centre constructed and equipped with the Ford Foundation Grant of \$ 4,30,000 has come into operation from June 1963. The Auditorium has just been completed and commissioned. The Language Laboratory and the Music Room are now being equipped with furniture and instruments.

4. Students under the Programme

The General Education Programme was organised this year for the Faculties of Arts, Commerce, Science (including Pre-medical), Home Science, Fine Arts and Technology and Engineering.

The programme in each of these Faculties was offered to the First and Second Year of the Three Year Degree Course, the final year of the degree course being entirely devoted to the optional (or special) studies.

The total number of students under the General Education Programme from the various faculties is as follows:

Sr. No.	Faculty and Class	Divisions	Total number of students
(1)	Faculty of Arts:		
	F.Y.B.A.	4	450
	S.Y.B.A.	2	357
(2)	Faculty of Science:		
	Pre-Medical	1	124
	F.Y.B.Sc.	1	181
	S.Y.B.Sc.	1	200
(3)	Faculty of Commerce:		
	S.Y.B.Com.	3	322
	F.Y.B.Com.	3	357
(4)	Faculty of Technology and Engineering:		
	F.E. Engineering	4	362
(5)	Faculty of Fine Arts (including College of Indian Music, Dance and Dramatics):		
	II Year	1	24
	III Year	1	7

Sr. No.	Faculty and Class	Divisions	Total number of students
(6)	Faculty of Home Science:		
	II Year	1	124
	III Year	1	79
	Total		<u>2,587</u>

This does not include about 1700 students of the Pre-University year who take compulsory courses in English language, Indian literature, Social Studies and Science.

5. Syllabus-General Education Courses

- (1) Humanities (which included literature and Fine Arts)
- (2) Story of Human Civilization
- (3) Philosophy
- (4) Social Sciences and
- (5) Natural Sciences

These courses were distributed over two years to the various Faculty classes as shown below:

Class	Division	Courses taken in each class
<i>Faculty of Arts:</i>		
F.Y.B.A.	Three	(1) Physical Science: Matter and Energy and Impact of Science on Society
S.Y.B.A.	Two	(1) Art Practice and Art Appreciation
<i>Faculty of Science:</i>		
F.Y.B.Sc.	One	(1) Our Social, Political and Economic Problems (2) Story of Human Civilization
<i>Pre-Medical:</i>		
	One	(1) Statistics (2) Our Social Political and Economic Problems (3) Art Appreciation
S.Y.B.Sc.	One	(1) Reading from Drama (English and Sanskrit) (2) Art Appreciation and Art Practice

Class	Division	Courses taken in each class
<i>Faculty of Commerce:</i>		
F.Y.B.Com.	Three	(1) Physical Science: Matter and Energy (2) Story of Human Civilization
S.Y.B.Com.	Three	(1) Art Appreciation and Art Practice (2) Philosophy: On Values
<i>Faculty of Technology and Engineering:</i>		
F.E.	Four	(1) Our Political and Economic Problems (2) Art Appreciation (3) Impact of Science on Society
<i>Faculty of Home Science:</i>		
S.Y. Home Science	One	(1) Story of Civilization (2) Indian Political and Economic Problems
T.Y. Home Science	One	(1) Art Appreciation: Painting (2) Philosophy
<i>Faculty of Fine Arts:</i>		
S.Y. Fine Arts and Music		(1) Story of Civilization
T.Y. Fine Arts and Music		(1) Physical Science: Matter and Energy and Impact of Science on Society (2) Philosophy

6. Library

The total amount spent on the Library was about Rs. 3,000/- with the addition of about 300 books this year at the cost of Rs. 2,000/-. The total number of books particularly for General Education stands at about 1,200, the cost being Rs. 8,600/- approximately. The Library at the General Education Centre is kept open from 11-00 a.m. to 5-30 p.m. on all working days and is specially kept open for reading hours for the General Education classes. The following figures indicate the use of this Library besides Smt. Hansa Mehta Library.

(1)	Daily average number of students making use of the Library	25
(2)	Daily average number of teachers making use of the Library	10
(3)	Total number of books issued for reference as well as for home reading during the year	1,740

7. Method of Teaching

Each topic was organised into a series of talks by the teacher. Duplicated synopsis of reading material was supplied to each student in order to help him to follow the talks. A few reference books were suggested for further reading. Frequent use of films and exhibitions on themes under discussion is becoming a normal feature of General Education Programmes. On courses covered, tests were arranged towards the end of each term. The test was usually a short-answer test. The grades obtained were announced to the students and were recorded. A student is allowed to improve his grade by taking extra test.

8. Important Events:

1. Dr. Champion Ward, Vice-President of the Ford Foundation, visited the General Education Centre and was happy to see the project completed in all respects such as building, equipment and the programme.

1. Shri K. S. Yajnik, the Co-ordinator, was deputed to study the General Education Programme at the Universities and Colleges in the United States for a period of three months from the 1st October to 31st December, 1964.

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 hardly 400 men students in rented buildings and University owned buildings. There was no hostel accommodation for women students. At the end of the year 1964-65 there are ten Halls for Men and three Halls for women students. The rented building, Keshav Prasad Hall, was vacated before the beginning of the first term 1964-65. The number of students in residence in March, 1965 were 1795 boys and 697 girls.

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.

There was a heavy demand from students for residential accommodation in the University Halls of Residence. In order to avoid hardships to students who have to search for accommodation in private houses in the City where the rents are exorbitant and facilities comparatively poor, the University had to continue the practice of admitting 3 students in some of the rooms this year also. It is hoped that the situation will be eased with the construction of additional wings to Shrimati Hansa Mehta Hall and Shri M. Vishvesaraiya Hall and one new Hall for Women students, all of which are nearing completion. The University hopes to start construction of four new Halls of Residence in the near future.

At the end of the year under report, 1795 men students and 697 women students were in residence in different Halls as against 1688 men students and 633 women students at the end of the previous year. The following statement gives the breakup of these students by Halls and Institutions:

THE MAHARAJA SAYAJIRAO UNIVERSITY HALLS OF RESIDENCE
A Statement of Students admitted in 2nd Term 1964-65

Faculty/Institution	Shri K. M. Munshi Hall	Shri Manubhai Mehta Hall	Shri Sardar Patel Hall	Maharshi Aurobindo Hall	Prof. T. K. Gajjar Hall	Dr. Jivraj Mehta Hall	Shri Dadabhai Naoroji Hall	Shri Ravindra-nath Tagore Hall	Shri M. Vishve-sariya Hall	Siddharaj Jaisinh Hall	Total Men Students	Smt. Sarojini Devi Hall	Smt. Hansa Mehta Hall	Pandita Gargi Hall	Total Women Students	Grand Total
Preparatory Unit	27	13	17	14	48	22	13	40	27	38	259	28	27	28	83	342
Faculty of Arts	6	5	8	3	6	10	9	9	12	11	79	47	33	34	114	195
Faculty of Commerce	6	15	16	10	21	10	6	21	29	28	162	4	5	4	13	175
Faculty of Science	11	21	43	27	22	39	27	18	24	16	248	31	11	27	69	317
Faculty of Education and Psychology	2	2	2	3	7	—	1	2	2	3	24	13	5	7	25	49
Faculty of Technology and Engineering	81	82	58	94	72	63	15	51	60	49	625	2	5	2	9	634
Polytechnic	5	9	4	13	5	6	—	44	30	39	155	1	2	—	3	158
Faculty of Medicine	14	25	12	18	28	43	7	15	8	7	177	25	11	14	50	227
Faculty of Social Work	1	2	2	1	2	3	—	2	5	4	22	1	1	9	11	33
Faculty of Fine Arts	6	4	7	1	2	2	—	1	6	2	31	11	5	4	20	51
College of Indian Music	—	—	3	—	—	—	—	—	—	—	3	1	1	7	9	12
Dance and Dramatics	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Faculty of Law	—	1	2	2	—	—	1	—	1	—	7	1	—	—	1	8
Faculty of Home Science	1	1	1	—	—	—	—	—	—	—	3	126	73	91	290	293
Total	160	180	175	186	213	198	79	203	204	197	1795	291	179	227	697	2492

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Administration of the Halls was carried on with the advice of the Advisory Committee of the Halls of Residence and the Warden's Committee. All the Halls have been provided with libraries and reading rooms. Indoor games are also provided. The University 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 and Sanitation Committee.

Meetings and talks were arranged, musical and social evenings were organised and games, tournaments and debates were held in different Halls during the year. National days like Independence Day, Republic Day, Health Day etc. were also celebrated. Dr. K. M. Munshi visited the Munshi Hall on 28-11-1964.

2. Health Centre and Medical Examination

During the year the staff of the Health Centre consisted of one Medical Officer, One part-time Lady doctor, One compounder-cum-clerk, One Laboratory-cum-X-ray technician, one nurse, one sanitary inspector and three hamal-cum-sweepers. The Centre provides the preventive and curative services for the students, staff and members of the staff families. There is a regular medical check up of the students in the first year and other students in the alternate years by the members of the Medical Inspection Board. 3,135 students reported for medical check up. The total number of students recommended for follow up was 1,655 for various ailments viz. nose, throat, ear, skin, teeth and personal hygiene. Miniature chest X-ray examination of all these students was arranged with the help of Baroda Borough Municipality. Out of 2,840 chests X-rayed, 21 students were suspected to be suffering from disease or abnormality of lungs or heart. Out of 21 suspects, 7 were confirmed to be suffering from Pulmonary tuberculosis, 1 Atrial septal defect, 1 Bilateral cystic disease of the lungs. All these cases are followed up at the Health Centre.

Eighty-seven mess servants of various Halls of Residence were examined for evidence of any ailment or infection in the stool. Forty-two (48.27%) were found to be suffering from protozoal or parasitic infection and were advised treatment. Screening of the chest did not show abnormality in any of them.

The Centre arranged vaccination work with the help of Baroda Borough Municipality. Total number of persons vaccinated against small pox was 2,130

(566 staff and members of staff families+1,564 students) and against cholera was 61.

During the year 16,156 patients attended the Health Centre Clinic. Of these, total 10,986 (67.47%) were students and 5,250 (32.53%) were the members of the staff and their families. The daily average attendance was 44.26. Total number of laboratory investigations such as stool, urine and blood examinations, were 313, and the total number of fluoroscopic examination was 68 during December, 1964 to March, 1965.

Publications:

Name of the Authors	Title	Name of Journal and month of Publication
(1) Dr. M. H. Tailor Dr. T. V. Patel Dr. N. M. Bhatt Dr. B. T. Dave	Roentgenographic Appearances of the Normal Chest	Journal of Association of Physicians of India, Vol. XII No. 6/437-464, June, 1964
(2) Dr. M. H. Tailor Dr. T. V. Patel Dr. N. M. Bhatt	Roentgenographic Appearances of the Normal Chest	Monograph
(3) Dr. M. H. Tailor	Serum alkaline phosphatase level in University students	M. S. University of Baroda Journal No. 3, 1964-65

The Centre is preparing the monthwise morbidity data of the patients attending the Health Centre Clinic for the last three years. The work regarding the 'Study of lung functions in University students' and 'Tuberculin Status of children attending the pediatric outpatient' is in progress.

3. Physical Education

(1) Staff:

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, one Swimming Instructress and one Boating Trainer.

(2) Auxiliary Cadet Corps:

Two years' A.C.C. training is compulsory for all the students of this University excepting those who are selected for N.C.C., Games, Swimming and Boating. 478 students were imparted training in Drill, P.T. and Games during this year.

(3) Major Games:

Cricket, Hockey, Football, Basketball, Volley-ball, Kho-Kho, Kabaddi, Tennis, Badminton, Table-Tennis, Throwball and Netball were organised and conducted by the Physical Instructors and the Officers-in-charge of Games. More than 500 students including women students participated in these activities.

(4) Swimming and Boating:

In Swimming 445 members and in Boating 134 members were imparted training by the Swimming Trainers and the Boating Trainer respectively. 876 paid guests also took advantage of the Swimming Pool. The Finals of the Annual Boating Competitions and Demonstrations in Boating were held on the Republic Day. Prizes and trophies were distributed to the winners.

(5) Annual Sports:

As a part of the 14th University Youth Festival, Annual Sports were held on the 21st, 22nd and 23rd December, 1964 on the Union Pavilion Ground. Students and teachers from various Faculties and Institutions participated in different Track and Field Competitions. The General Athletics Championship was won by the Faculty of Arts.

(6) Tournaments and Competitions:

The University Cricket, Hockey, Football, Basketball, Badminton, Tennis, Table-Tennis and Kho-Kho teams participated in the League and Knock-out Tournaments held in Baroda. The Basketball and Badminton teams won the Championships. Swimming and Basketball teams were sent to take part in the Gujarat State Championships.

Shri A. D. Godse of the Faculty of Technology and Engineering and Kumari Nila C. Bhatt of the Faculty of Home Science were winners in the Open Badminton Competitions held in Baroda.

(7) Training of University Teams:

The training of various University Teams was organised and conducted by the Physical Instructors and the Officer-in-charge of Games. Coaches were also engaged to give special training to the Cricket, Tennis, Hockey (men and women) and Kho-Kho (men and women) teams.

(8) Inter-University Tournaments:

University Cricket, Hockey (men and women), Football, Basketball, Tennis, Badminton (men and women), Table-Tennis (men and women), Kabaddi and Swimming teams were sent to participate in the Inter-University Tournaments. The Cricket team defeated Poona and Indore Universities but

lost to Bombay University in the Semi-finals. The Badminton team (men) defeated Mysore and Shivaji Universities but lost to Bombay. The Kho-Kho teams (men) defeated Jabalpur, Gujarat, Nagpur and Poona Universities and won the All India Inter-University Kho-Kho Championship held at Vallabh Vidyanagar.

(9) *Inter-University Cricket Tournament (Semi-finals and Finals):*

The Semi-finals between Punjab and Calcutta and between Mysore and Bombay were played on the 23rd, 24th and 25th January, 1965. Calcutta defeated Punjab and Bombay defeated Mysore and qualified for the Final between Bombay and Calcutta was played on the University Cricket Ground from the 27th to the 30th January, 1965. Bombay defeated Calcutta by 261 runs and won the All India Inter-University Cricket Championship.

(10) *Inter-Faculty/Institution Tournaments:*

<i>Tournaments</i>	<i>Winners</i>	<i>Runners-up</i>
(i) Cricket	Faculty of Commerce	Polytechnic
(ii) Tennis	Faculty of Commerce	Faculty of Medicine
(iii) Badminton	Faculty of Technology and Engineering	Preparatory Unit
(iv) Table-Tennis	Faculty of Technology and Engineering	Polytechnic

(11) *Individual Championships:*

<i>Activity</i>	<i>Winners</i>	<i>Faculty/Institution</i>
(i) Athletics	R. Y. Ghatge	Arts
(ii) Boating	V. V. Ekbote	Polytechnic
(iii) Badminton	A. D. Godse	Technology and Engineering
(iv) Tennis	K. Surrapa	Technology and Engineering
(v) Table-Tennis	D. S. Chavan	Arts

(12) *Participation in National Championships:*

- (i) Nine members of the University Cricket team represented the Baroda Cricket Association in the National Cricket Championship.
- (ii) One member of the University Badminton Team represented the Gujarat State Badminton Association in the National Badminton Championship.

- (iii) Three members of the University Table-Tennis Team represented the Gujarat State Table-Tennis Association in the National Table-Tennis Championship.

- (iv) Shri C. R. Williams (Captain of the University Cricket Team) played for the Combined Universities Team against Ceylon Team at Madras. Shri S. P. Gaekwad was the skipper of the team.

(13) *Basic Rock Climbing Training Camp:*

This Camp was held at Pawagadh from the 13th to the 17th October, 1964. 14 students including 3 women students attended the Camp. The training was imparted by 3 Instructors under the supervision and guidance of the Organisers Shri Bipin Y. Palkar and Dr. S. N. Chawdhary.

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) 5th Gujarat Girls Battalion N.C.C.
- (3) 2nd Gujarat Engineers Company N.C.C.
- (4) 2nd Gujarat Medical Company N.C.C.
- (5) 1st Gujarat Air Squadron N.C.C.
- (6) 3rd Gujarat Technical Air Squadron N.C.C.
- (7) 19th Gujarat Battalion N.C.C.
- (8) 1st Gujarat Signal Company N.C.C.

A report of the activities carried out by each Unit is given below:

(1) *3rd Gujarat Battalion N.C.C.:*

The Unit is now a 8 Company Battalion with authorised strength of 9 N.C.C. Officers and 1600 N.C.C. Cadets. At present there are 9 N.C.C. Officers and 1340 cadets of different Faculties and Institutions of the University. In addition to the Senior Division the Unit has a 9 Junior Division Troops and 87 A.C.C. Platoons. The training of the cadets started on the 22nd June, 1964 and terminated on the 14th February, 1965.

Annual Training Camp of the Unit was held at Umbaratt in which 143 cadets participated. A second camp was held at Baroda when 148 cadets attended. The second camp was a combined camp for 3 N.C.C. Units. This Unit however won practically all the prizes in the competition.

One cadet attended the Advance Leadership camp at Mahabaleshwar from the 10th to the 30th May, 1964. Two cadets took part in the All India Summer Training Camp at Ootacamund from the 13th to the 26th May, 1964.

'B' and 'C' certificate examinations were held on the 12th March, 1965. 10 Cadets appeared for the 'B' certificate examination. All of them got through. 4 Cadets appeared for the 'C' certificate examination of which 2 have passed.

The Unit took part in the National Solidarity Day and the parade held on the Republic Day. Shri Balvantrai Mehta, Chief Minister of Gujarat State visited the Unit on the 29th December, 1964.

(2) *5th Gujarat Girls Battalion N.C.C. :*

On reorganisation of N.C.C. on 1-4-1964, all the Girls Troops and various Girls Rifle Companies in Baroda have been merged in the new Unit called the 5th Gujarat Girls Battalion N.C.C. with the strength 4 Companies including detachments at Medical College, Mahila Mahavidyalaya, Baroda and Sheth P. and T. Arts and Science College, Godhra.

The strength of the Unit is 4 officers and 535 cadets. The actual strength is 493 cadets. The cadets were given training in Signal consisting of Squad Drill, Weapon Training, Wireless, Telephone Exchange, Morse Signalling and First Aid, and Nursing comprising Squad Drill, Weapon Training, Nursing Theory and Practical. Aeromodelling is taught to those volunteered.

Annual Training Camp was held at Kapadwanj from the 25th December, 1964 to the 1st January, 1965. 2 Officers and 308 Cadets participated. 3 Cadets were selected for the Republic Day Contingent. 1 Officer and 8 Cadets attended the All India Summer Training Camp at Dagshai (Simla Hills) in May, 1964. They also celebrated the N.C.C. Day and took part in the Promise and Station Parades.

Certificate 'G' Part I, 'G' Part II Examinations were held on the 27th February, 1965. The result is shown below:

Examination	Number appeared	Number passed	Percentage
1. G. Part I	24	22	91.66%
2. G. Part II	5	4	80%

(3) *2nd Gujarat Engineers Company N.C.C. :*

The actual strength of the Unit is 1 N.C.C. Officer and 200 cadets as against the authorised strength of 2 Officers and 200 Cadets. The first parade of the year was held on the 28th June, 1964 and Training concluded on the 17th February, 1965. 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 Dakor from the 25th December, 1964 to the 2nd January, 1965.

'B' and 'C' Certificate Examinations were held in the month of February, and March, 1965. The result is shown below:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	3	3	100%
2. 'C' Certificate	5	4	80%

(4) *2nd Gujarat Medical Company N.C.C. :*

The actual strength of the Unit is 1 N.C.C. Officer and 129 cadets as against the authorised strength of 2 Officers and 250 cadets. The training started in the last week of June, 1964 and continued till the second week of February, 1965.

1 N.C.C. Officer and 94 cadets of the Unit attended the combined Annual Training Camp held at Lucknow from the 21st December, 1964 to the 3rd January, 1965. One cadet attended the Advance Leadership Course at Mahabaleshwar in May, 1964. One cadet participated in the All India Summer Training Camp at Dagshai in May, 1964. The cadets also took part in the Republic Day and combined Promise Parades.

The certificate examinations were held during February, 1965. The result is shown below:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	17	14	82.35%
2. 'C' Certificate	3	3	100%
3. 'G' Part I Certificate	4	4	100%
4. 'G' Part II Certificate	4	4	100%

(5) *1st Gujarat Air Squadron N.C.C. :*

The Unit is functioning from the 1st August, 1959. The actual strength is 2 N.C.C. Officers and 200 cadets which is its authorised strength. At present this Unit is holding 3 Junior Division Air Troops. The actual strength is 2 Officers and 150 cadets. This is also the authorised strength of the unit. The cadets are given training in Drill, Parade P.T., Navigation, Meteorology, Aerocadets are given training in Drill, Parade P.T., Navigation, Meteorology, Aero-engine, Hygiene and Sanitation etc. One cadet qualified for Wing by doing his first solo.

Model aircraft flying display and static displays were conducted on the Independence Day, N.C.C./T.A. Day, Senior Division Camp Sikka, Junior Division Camp at the Rosary High School, Baroda and the Republic Day. The Unit also participated in ceremonial parades and presented the Guard of Honour to Dr. S. Radhakrishnan, President of India on the 27th November, 1964.

The following examinations were held in February, 1965.

Examinations	Number appeared	Number passed	Percentage
1. 'B' Certificate	13	11	84.61%
2. 'C' Certificate	9	9	100%
3. Part I	22	22	100%
4. Part II	28	28	100%

(6) 3rd Gujarat Technical Air Squadron N.C.C. :

The Unit was raised in July, 1960. It is accommodated in two open halls with two small temporary partitioned rooms of the Kalabhavan building. The present strength of the Unit is 2 Officers and 121 cadets. The training of the 1st, 2nd and 3rd year course has been completed.

Annual Training Camp of the Unit was held at Sikka from the 25th December, 1964 to the 4th January, 1965. It was attended by 1 Officer and 46 cadets. The Unit took part in the N.C.C. Week Celebration as well as Republic Day Parade. Guard of Honour was presented to Dr. S. Radhakrishnan, President of India by the Cadets of this Unit on the 27th November, 1964.

'B' Certificate examination was held in February, 1965. The result is as under:

Examination	Number appeared	Number passed	Percentage
'B' Certificate	9	9	100%

(7) 19th Gujarat Battalion N.C.C. :

Owing to the reorganization of the N.C.C. the old 61st Gujarat N.C.C. Rifles Battalion has been newly named as 19th Gujarat Battalion N.C.C. It has a strength of 8 Officers and 1203 cadets against the authorised strength of 9 Officers and 1600 cadets. One Junior division A.C.C. Troop of Shri Pratap High School, Baroda having the strength of one Officer and 50 cadets is also functioning under this Unit.

The first parade of the Unit started on the 22nd June, 1964 and training lasted upto the end of February, 1965. The Annual Training Camp was held at Kapadwanj in October, 1964. One extra camp was also held at Baroda for the cadets who did not attend the previous camp. 5 Officers and 482 cadets participated in the camp at Kapadwanj and 1 Officer and 287 in the camp at Baroda.

The following examinations were held during the year:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	13	10	76.92%
2. 'C' Certificate	6	3	50%
3. Part "A-I"	22	16	72.81%

(8) 1st Gujarat Signal Company N.C.C. :

The actual strength of the Unit is 2 N.C.C. Officers and 192 Cadets against the authorised strength of 2 Officers and 200 cadets. Last year training to New and 2nd and 3rd Year training to Old cadets was imparted according to revised syllabus.

The regular training of the Company started on the 1st July, 1964 and ended on the 15th February, 1965. A cadre of cadets was run in the month of October, 1964 to test the cadets for their abilities for different appointments as U/O, CSM, SFT & CQMS and CPL etc. One cadet was sent to attend the Advance Leadership course held at Mahabaleshwar. Annual Training Camp was held at Vastrapur (Ahmedabad) with different Technology and Infantry:

The following examinations were held during February and March, 1965:

Examination	Number appeared	Number passed	Percentage
1. 'B' Certificate	9	6	66.66%
2. 'C' Certificate	4	1	25%

5. The Shakespeare Society

The Shakespeare quatercentenary year (1964) was celebrated with a varied programme. In the first term, the Society participated in the Shakespeare play competition organized by the Gujarat Branch of the Sangeeth-Nritya-Natya Academy, at Ahmedabad. We put up *A Mid-summer Night's Dream* and won a prize. The set for the play was prepared by Professor Sanko Choudhary. Mr. Hugh Hunt, the noted British Producer-Professor, came down from Manchester on a special mission to judge this competition.

In the second term, members put up two One-Act plays, *The Long Goodbye* and *On the Frontier*. The former, which is by Tennessee Williams, lent itself somewhat to experimental staging and the opportunity was fully availed of. The Society also joined hands with the department of Dramatics to organize a "Shakespeare Week" which included Shakespeare staging, Shakespeare exhibition, lectures and 'listening in' sessions. To mention a strictly academic component of this activity, some Universities invited the President of the Society to give talks on Shakespearean themes as part of their centenary celebrations.

6. Students' Common Rooms

There are three Common Rooms for University students. Two rooms are on the campus—one for men students and the other for women students. The third room generally known as Non-Resident Students' Centre is very near the Faculty of Technology and Engineering. The Women Students' Common Room and the Non-Resident Students' Centre were built with financial assistance from the University Grants Commission and the 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 University Hobby Workshop came into existence from the grants of Rs. 25,000/- (non-recurring) for the building and Rs. 24,800/- for the equipment etc. from the University Grants Commission for the following hobbies: (1) Carpentry, (2) Assembling electronic and electric appliances, (3) Music, (4) Clay-Modelling and (5) Photography. The staff of the workshop consists of one Officer in charge, six-part-time instructors, one part-time clerk and one part-time peon.

Students from several faculties and institutions are availing the facilities provided at the Hobby Workshop with interest and zeal. The total number of students enrolled during the year 1964-65 is 251. They are distributed over the various hobbies as under:

<i>Hobby</i>	<i>Number of Students</i>
1. Carpentry	28
2. Assembling electronic and electric appliances	48
3. Music	73
4. Clay-Modelling	36
5. Photography	66
Total	251